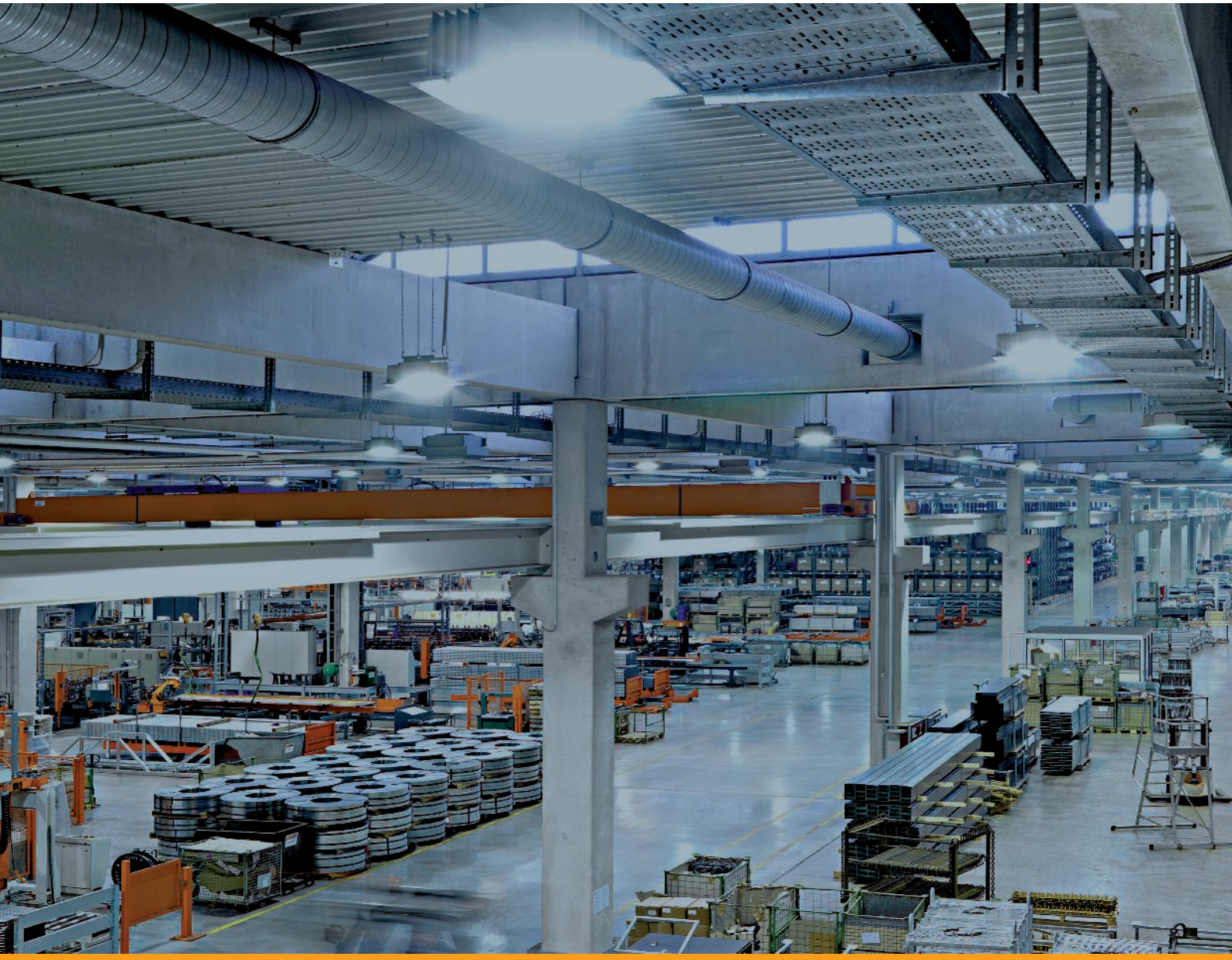


Industrial installations

Cable support systems, connection and routing systems and fastening material

OBO BETTERMANN



Building Connections

Digitalisation, the Energiewende (energy transition), mobility – the future is gathering speed. At OBO Bettermann, we're proud to be a driving force. And as a facilitator, we make connections. Today, we are already developing the innovative electrical infrastructure systems and solutions of tomorrow. Reliably, flexibly, sustainably.

Already today, OBO is one of the leading manufacturers of installation systems for the electrical infrastructure in buildings and plants. When it comes to the friction-free flow of power, energy and data, engineers and tradespeople worldwide rely on the comprehensive range from OBO.





OBO applies its slogan "Building Connections" to around 30,000 high-quality branded electrical products and services, which are used in application solutions for projects in industry, business and infrastructure.

OBO operates a global network and employs more than 4,200 people in more than 60 countries. The headquarters of the family company, which was founded in 1911, is located in Menden, Germany. In addition, more than 40 subsidiaries are present in markets on all continents.



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Improved structure, sharpened profile



Each of our products carries a benefit which only the OBO brand can offer. Products are developed, manufactured and tested with a high level of competence – from the idea through to the final check. From flawless logistics through to practical information – we can provide support at every level. We can offer additional security through certificates on the conformity of our products with the most important standards and directives. In a nutshell – OBO helps you more. In every location and in every phase of a project.

To maintain this, we continually challenge ourselves. Not as an end in itself but for the better processing of each customer's requests – fast, reliably and future-oriented. That is the reason we have not only established our three central application areas, but also reworked our catalogue structure. In this way, we can display our service offers more clearly, highlight the product benefits more effectively and illustrate the respective application areas more tangibly.

OBO Product Worlds



Industrial installations

- Cable support systems
- Connection and routing systems
- Fastening material



Building installations

- Cable routing systems
- Device installation ducts, trunking and poles
- Floor installation systems and underfloor applications
- Installation systems



Safety and protection installations

- Surge protection
- External lightning protection
- Equipotential bonding and earthing
- Insulation and cable bandages
- Fire-tested support and routing systems
- Fire protection ducts



It's your choice – from now on there's a catalogue for each OBO product category. Simply select the catalogues and order together with a collection case.

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Planning virtually, implementing efficiently

When planning and implementing electrical technology, BIM (building information modelling) is becoming increasingly more important. We can now offer our partners the first solution to unlock the full potential of the BIM method for practical applications - giving you more planning efficiency, transparency and cost security with complex projects. Find out about the advantages of BIM@OBO now:

- Intelligent libraries structured according to individual systems
- Available for Revit, as a plug-in and directly via the OBO website
- Simple integration via drag & drop
- Practical display of material lists for ordering directly
- Intuitive user interface



You can find further information at **obo.de/BIM**.
Welcome to the future!



Clear delivery capability

With an approximate storage area of 38,000 m² and five strategically well-located sales warehouses, we ensure that our products arrive at the right place at the right time. Our logistics specialists work hard to ensure all our partners are supplied flexibly and as quickly as possible. This you can rely on!



1 **Sales Warehouse North**
Bad Fallingbostel

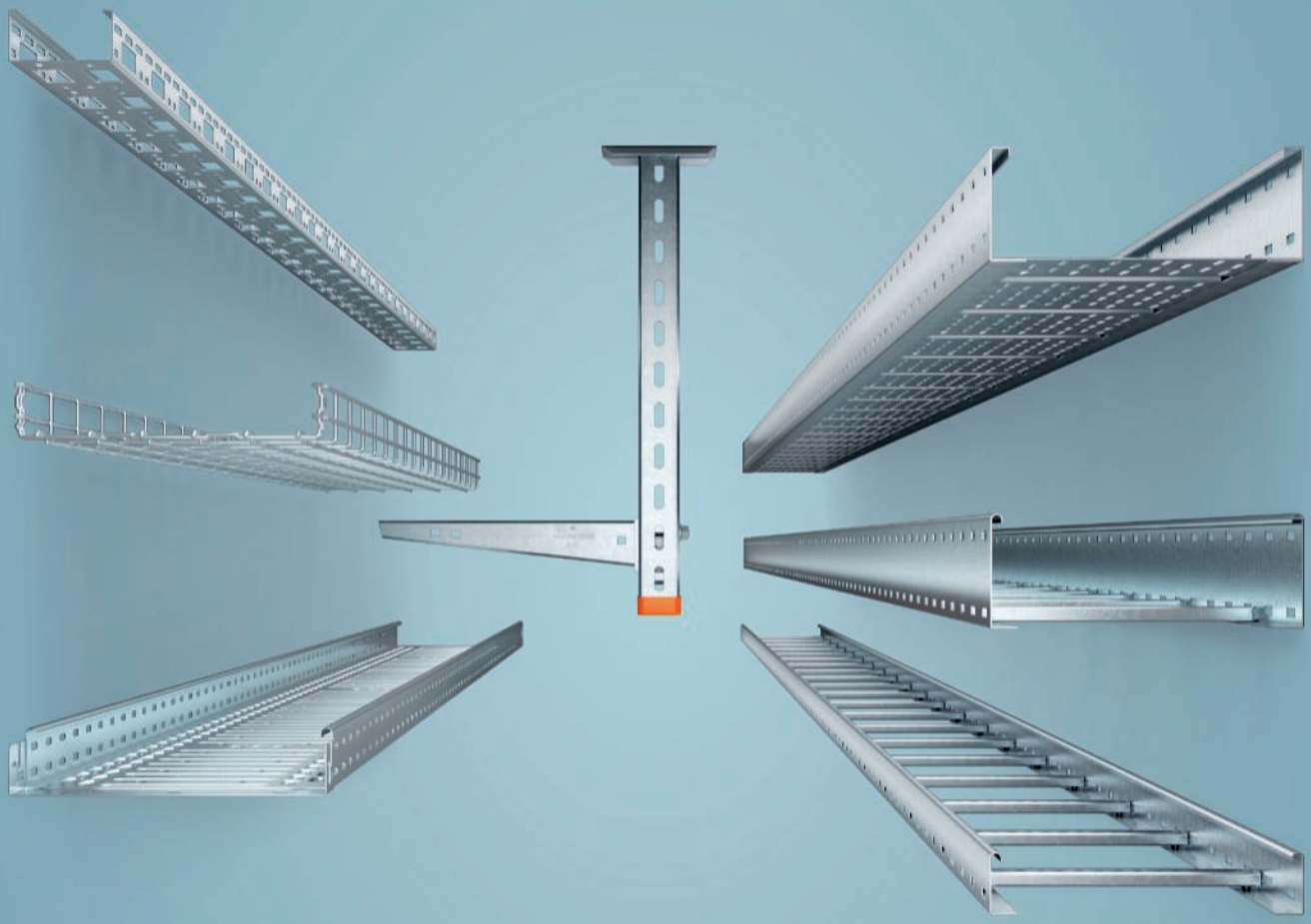
2 **Sales Warehouse West**
Iserlohn

3 **Sales Warehouse East**
Delitzsch

4 **Sales Warehouse South-West**
Groß-Rohrheim

5 **Sales Warehouse South**
Dasing

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Metal: corrosion and corrosion protection



Corrosion
(from the Latin corrodere, “to eat or gnaw to pieces”) in a technical context is a reaction between a material (generally a metal) and its surroundings, leading to a measurable change in the material and potentially impairing the functionality of a component or system.

A large number of products used in industrial installations are made of metal. Metals are much tougher than many other materials and are less sensitive to mechanical loading. The OBO metal products are made of aluminium, die-cast zinc, stainless steel or steel.

Steel (St), the most commonly used material, is very strong and has good elasticity and chemical resistance. However, steel is susceptible to corrosion and must therefore be protected accordingly.

Stainless steels consist mainly of alloyed, very hard and rustproof steels. The stainless steels are divided into quality classes according to the percentage of alloys. These are indicated by the material number according to DIN EN 10027.

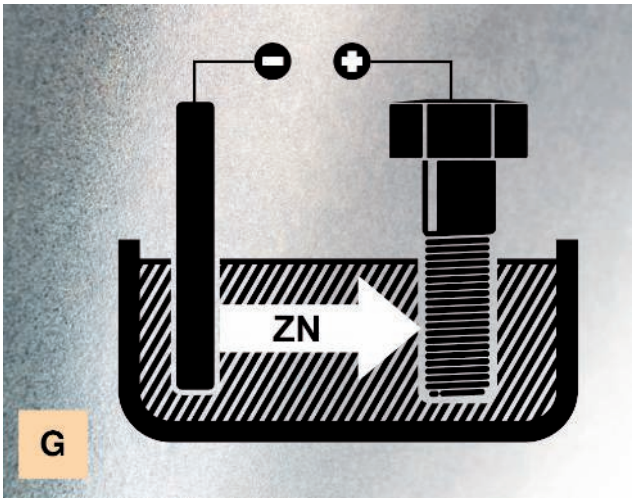
Aluminium (Al), as a light metal, has comparatively low strength but good electrical conductivity and high corrosion resistance.

Die-cast zinc components (Zn) are very strong and hard. The manufacturing process enables the production of very precise components with good corrosion resistance.

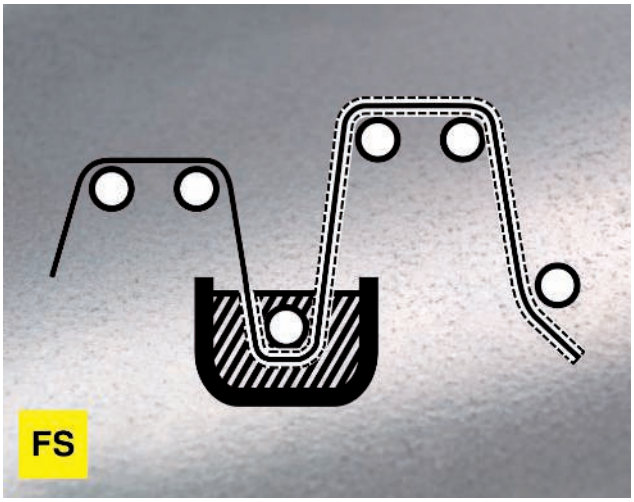
Corrosion protection
Corrosion protection means all steps taken to prevent corrosion damage to metallic components. It is impossible to prevent corrosion permanently, so corrosion protection measures generally aim to reduce the speed of corrosion so that the component is not damaged by corrosion for the duration of its service life. The term “passive corrosion protection” refers to all measures designed to shield products from corrosive media. Coatings are one way of achieving passive corrosion protection. At OBO, most steel products are protected from corrosion by a layer of zinc. Zinc coatings can be applied to components using a variety of methods.

Zinc slat covering
Zinc slat coverings are coatings applied in a non-electrolytic manner. They offer cathodic protection and thus have excellent corrosion protection, while at the same time, there is no risk of hydrogen-induced breakage. Due to these properties, this coating type is used for connection components with a high strength classification or structural parts with high tensile strength. The low layer thickness of the zinc slat covering allows a thin, homogeneous coating, which is particularly important for maintaining the accuracy of screw threads. This coating achieves a resistance of 480 hours in the salt spray test for the connection elements.

Galvanisation types



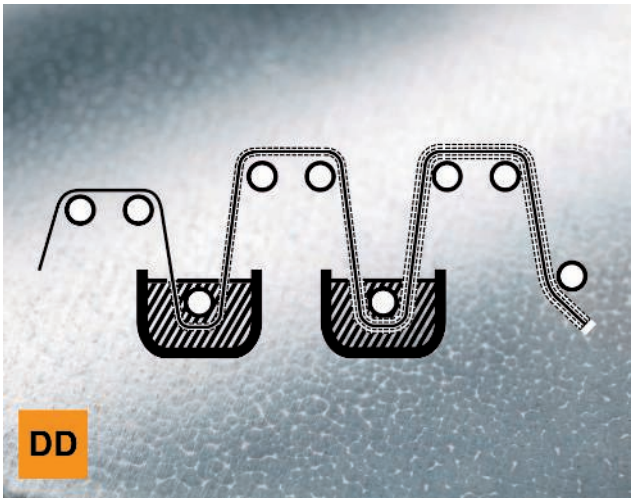
Electrogalvanisation – electrolytic galvanisation in accordance with DIN EN ISO 2081
In electrogalvanisation or electrolytic galvanisation, the component is coated by dipping it not in molten zinc, but in a zinc electrolyte, through which a direct electric current is passed.



Strip galvanising – hot galvanised according to the strip-galvanising method in accordance with DIN EN 10346 (formerly DIN EN 10147 and DIN EN 10142)
Strip galvanisation or Sendzimir galvanisation is where a continuous ribbon of steel is galvanised in a continuous line.



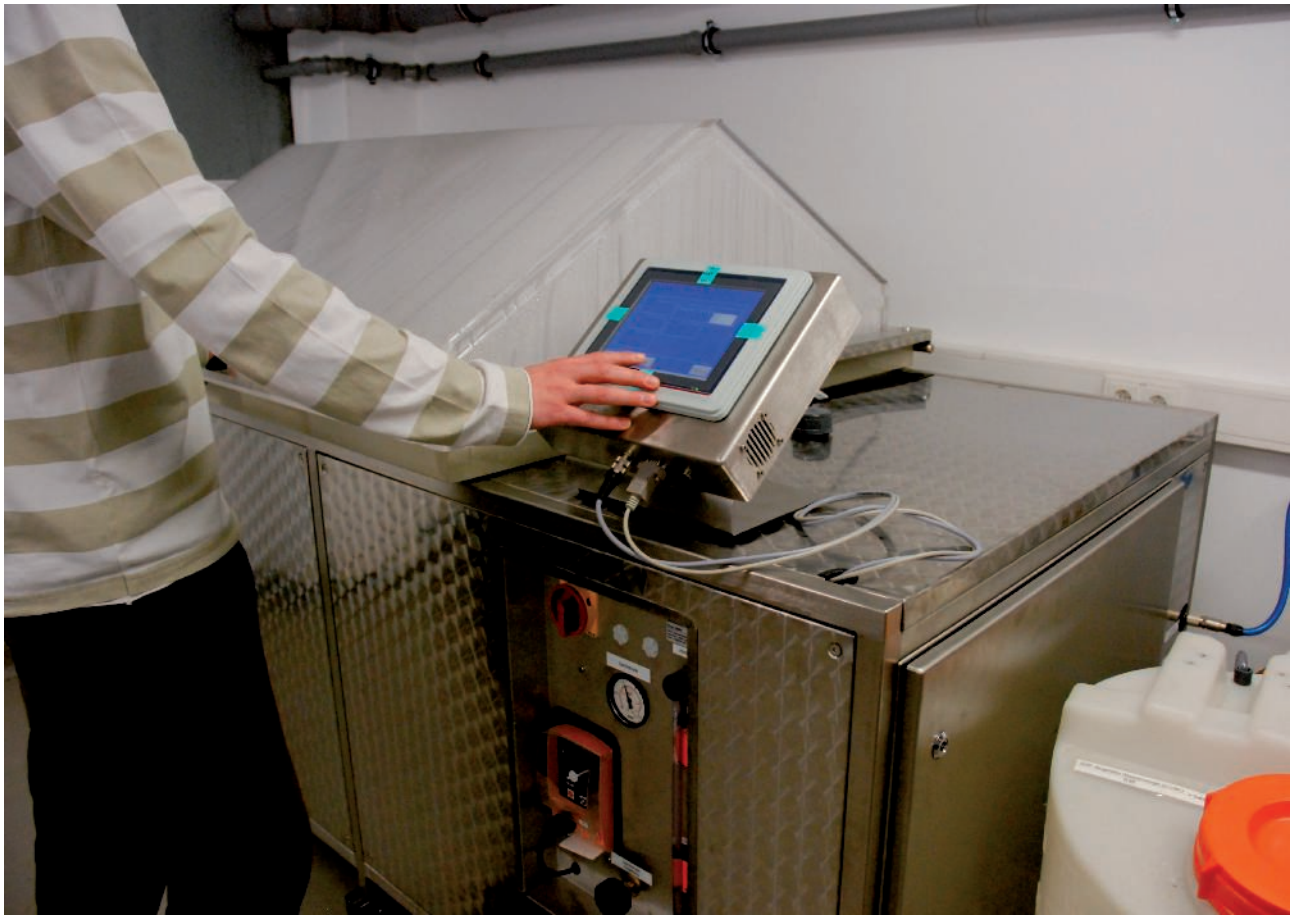
Hot-dip galvanisation – hot galvanisation using the dipping method according to DIN EN ISO 1461
Batch galvanisation is mainly used for galvanising prefabricated steel parts, by dipping them in molten zinc at a temperature of around 450 °C.



Hot-dip coating – zinc-aluminium coating in accordance with DIN EN 10346
In contrast to conventional coating systems, the material being galvanised in the double-dip process passes through two baths in succession: the first contains pure zinc, the second a zinc-aluminium alloy.

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Surface testing and corrosion categories



Classification of corrosion resistance
All the system components must show sufficient resistance against corrosion in agreement with the standard DIN EN 61537. The minimum zinc layer thicknesses are determined through a measurement. The grouping into the appropriate class is detailed in the table “Classification of corrosion resistance”. The table “Corrosion categories according to DIN EN ISO 12944” shows the area of application and the zinc loss to be expected.

Classification of corrosion resistance
All components, depending on the environment, must show sufficient resistance against corrosion in agreement with the standard DIN EN 61537. This is how corrosion categories are determined, e.g. with a salt spray test. In this procedure, components are sprayed with salt for a certain time period. The resulting level of red rust is the basis for allocation to a corrosion category, i.e. in which environment the component is resistant to corrosion.

Classification of corrosion resistance according to EN 61537

Class	Reference material and surface treatment
0*	None
1	Electroplated to a minimum thickness of 5 µm
2	Electroplated to a minimum thickness of 12 µm
3	Pre-galvanised to grade 275 to EN 10327 and EN 10326
4	Pre-galvanised to grade 350 to EN 10327 and EN 10326
5	Post-galvanised to a zinc mean coating thickness (minimum) of 45 µm according to ISO 1461
6	Post-galvanised to a zinc mean coating thickness (minimum) of 55 µm according to ISO 1461
7	Post-galvanised to a zinc mean coating thickness (minimum) of 70 µm according to ISO 1461
8	Post-galvanised to a zinc mean coating thickness (minimum) of 85 µm according to ISO 1461 (usually high-silicon steel)
9A	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1-4301 without a post-treatment *
9B	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 without a post-treatment *
9C	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1-4301 with a post-treatment **
9D	Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 with a post-treatment **

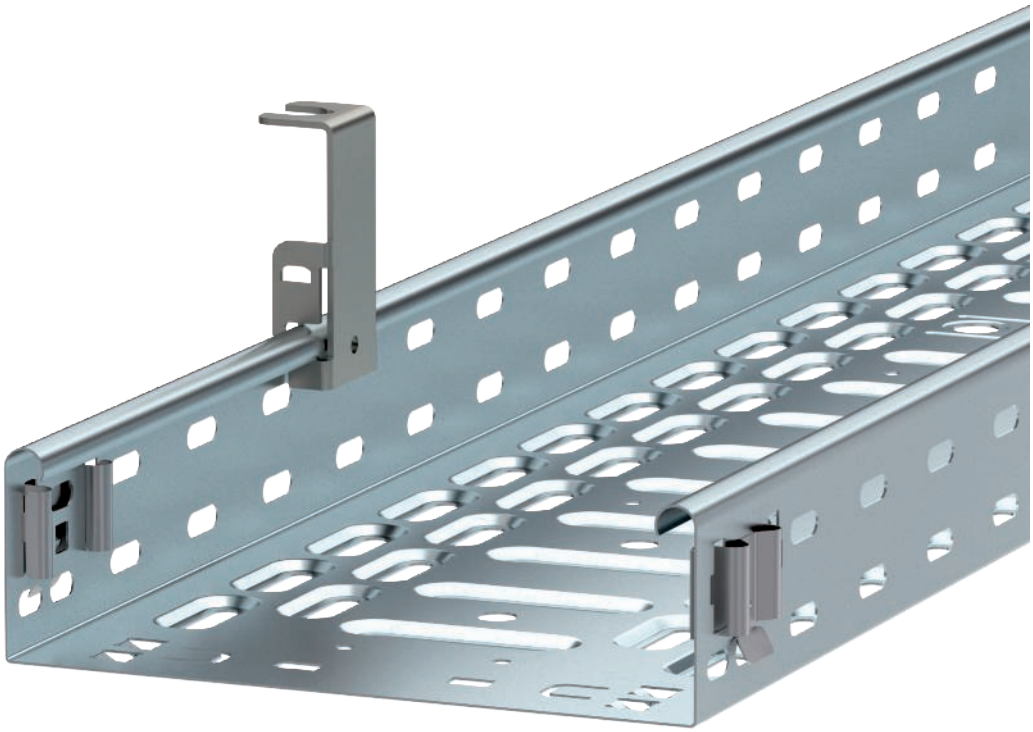
* For materials which do not have a declared corrosion resistance classification
** The end treatment process is used to improve the protection against crack corrosion and the contamination of other steels

Corrosion categories to DIN EN ISO 12944

Corrosion category	Typical environment, inside	Typical environment, outside	Corrosion load	Average zinc removal
C 1	Heated buildings with neutral atmospheres, e.g. offices, shops, schools, hotels	-	Insignifi-cant	<0.1 µm/a
C 2	Unheated buildings in which condensation can occur, e.g. warehouse, sports halls	Atmosphere with low level of impurities, often rural areas	Low	0.1 to 0.7 µm/a
C 3	Production facilities with a high level of humidity and some air impurities, e.g. plants for food production, laundries, breweries, dairies	City and industrial atmosphere, considerable impurities through sulphur dioxide, coastal areas with low salt load	Medium	0.7 to 2.1 µm/a
C 4	Chemical plants, swimming pools, boat sheds over seawater	Industrial areas and coastal areas with low salt load	Strong	2.1 to 4.2 µm/a
C 5-I	Buildings or areas with almost constant condensation and with high levels of impurities	Industrial areas with high levels of humidity and aggressive atmosphere	Very strong (industry)	4.2 to 8.4 µm/a
C 5-M	Buildings or areas with almost continuous condensa-tion and with high levels of impurities	Coastal or offshore areas with salt load	Very strong (sea)	>4.2 to 8.4 µm/a

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Contact corrosion



If two different metals are conductively connected with each other, contact corrosion can occur. This poses a considerable risk to the load capacity and lifespan of the components used.

The level of contact corrosion is determined primarily by the level of the potential difference between the contact partners. Contact corrosion occurs at potential differences of 100 mV or greater and the anodic (electrically negative) partner is at risk of corrosion. Therefore, strongly non-precious metals should never be brought into contact with precious metals.

Additional contact corrosion criteria:

- Level of electrical resistance between the contact partners. The higher the resistance, the lower the contact corrosion. Positive on Al and Ti.
- Occurrence of an electrolyte. An electrolyte, such as perspiration or condensation, attacks the protective layers, increasing conductivity. Dirt increases this effect through released ions.
- Length of the impact of the electrolyte. The longer the electrolyte is active, the greater the corrosion will be.
- The surface ratios of the contact partners influence the current density. The best thing to have is a small surface ratio of the “precious” to the “less precious” contact partner.
- Different environments or atmospheres can increase or influence the risk of contact corrosion to varying degrees.

Installation locations

Whether indoors or outdoors, in aggressive atmospheres or under special hygienic conditions, OBO can offer the perfect surface and materials for your installation, no matter what the requirements may be. OBO metal products are machined from high-quality sheet steel or steel wire and are available with various surfaces. Different hardening and coating methods ensure tailor-made corrosion protection, specially tailored to the appropriate application:

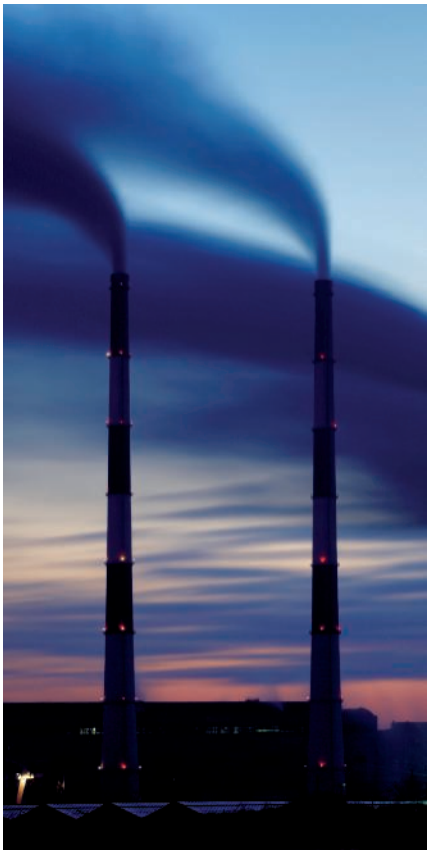
Application	Material	Surface protection
Indoors 	St Steel	L Painted/powder-coated
	St Steel	FS Strip galvanised DIN EN 10346
	St Steel	G Electrogalvanised DIN EN ISO 2081
Outdoors 	St Steel	FT Hot galvanised DIN EN ISO 1461
	St Steel	DD Strip galvanised DIN EN 10346
	VA Stainless steel A2	
	VA Stainless steel A4	
Especially corrosive areas 	VA Stainless steel A2	
	VA Stainless steel A4	

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Contact corrosion in different environments



Land climate



Industrial atmosphere



Sea climate

Small/large	Zn	FT	Al	Cu	VA	CuZn
Zn		✓	○	✗	✗	○
FT	✓		○	✗	✗	○
Al	✓	✓		✗	✗	○
Cu	✓	✓	✓		✓	✓
VA	✓	✓	✓	✓		✓
CuZn	✓	✓	✓	✓	✓	

✓	Little to no corrosion
○	Moderate corrosion
✗	Heavy corrosion

The precondition for corrosion is a conductive medium that connects the metal combination. The more damp and contaminated the atmosphere is, the more pronounced the contact corrosion.

Surfaces for special visual requirements or special environmental loads



Applications with specific optical requirements or special environmental conditions
Colour-coated products are becoming ever more popular. The coating may be required for optical reasons or for reasons of corrosion protection.

Colour coatings for reasons of corrosion protection
- Products in FT (hot-dip galvanised version)
- All RAL colours available
- Coating of the visible surfaces or the complete system
- Suitable for the colour of the structure when routed openly
- Separation of different voltages/functions (e.g. blue 230/400 V power supply; red weak current such as telephone cables and IT)

Colour-coated systems are not specifically indicated in this Industrial installation product catalogue. You can obtain details of these systems by contacting our telephone hotline on +49 23 73 89 - 17 00.

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Plastic: materials and properties

Essentially plastics can be of one of three types: thermoplastics, elastomers and Duroplast.

Thermoplastics
are plastics that can be shaped within a specific temperature range. This process is reversible, in other words, thermoplastics can theoretically be cooled and then melted down again any number of times. Another unique advantage of thermoplastics is that they can be welded.

Elastomers
have a fixed shape, but can be elastically deformed. They can elastically deform under tensile and compressive stresses, but afterwards will return to their original shape. Elastomers are used for producing seals and membrane entries.

Duroplast
or thermosetting polymers/plastics, are plastics that can no longer be deformed following curing. Duroplasts produce hard, glass-like (brittle) polymeric materials with a high thermo-mechanical strength.

Properties
The area of application for which plastic OBO products are suitable depends mainly on the properties of the material being used. The most important material properties are:
- Temperature resistance
- Risk of stress cracks
- Chemical resistance
- Halogen freedom
- UV resistance
- Flame resistance

		Material	Max. temperature resistance Permanent	Max. temperature resistance Short-time	Min. temperature resistance Static
Thermoplast	ABS/AVA	Acrylonitrile butadiene styrene	70 °C	85 °C	–25 °C
	EVA	Ethylene vinyl acetate	55 °C	70 °C	–15 °C
	PA	Polyamide	120 °C	150 °C	–25 °C
	PA/GF	Polyamide, fibreglass reinforced	120 °C	160 °C	–25 °C
	PBPT	Polybutylene terephthalate	120 °C	140 °C	–25 °C
	PC	Polycarbonate	110 °C	125 °C	–25 °C
	PE	Polyethylene	70 °C	90 °C	–25 °C
	PP	Polypropylene	90 °C	110 °C	–25 °C
	PS	Polystyrene	70 °C	80 °C	–15 °C
	PVC	Polyvinyl chloride	65 °C	80 °C	–25 °C
Elastomers	NBR SBR	Rubber mixture	100 °C	110 °C	–25 °C
	NBR	Nitrile rubber	100 °C	110 °C	–25 °C
Duroplast	UF	Duroplast, aminoplast, type 131.5	65 °C	90 °C	–25 °C
	MF	Duroplast, melamine resin, type 150	80 °C	110 °C	–25 °C

Plastic: stress crack risk and chemical resistance

Risk of stress cracks

Medium	ABS/ ASA	UF	MF	EVA	NBR SBR	NBR	PA	PA/ GF	PBPT	PC	PE	PP	PS	PVC
Risk of stress cracks	✗	✓	✓	✓	✓	✓	✓	○	○	✓	!	✓	✗	○

Danger of tension cracks: ✓ Virtually negligible ○ Low ! High ✗ Very high

Chemical resistance

Medium	ABS/ ASA	UF	MF	EVA	NBR SBR	NBR	PA	PA/ GF	PBPT	PC	PE	PP	PS	PVC
Petroleum	✓	✓	✓	○	✓	○	✓	✓	✓		○	○	○	✓
Fat	✓	✓	✓	✓	✓	○	✓	✓	✓				○	✓
Benzole	!	✓	✓	○	✓	!	✓	✓	○	!	!	○	!	!
Solvents	!						✓	✓	○				!	!
Formic acid	✓	!									!	○		
Citric acid	✓	!		○							!			
Lactic acid	✓	!		○							!	○	!	!
Hydrochloric acid	○	!									✓			!
Sulphuric acid	○	!									✓			!
Acetone	!	✓					✓	✓	○	!	!	○	!	!
Petrol	!	✓	✓	○	○	!	✓	✓	✓	✓	!	○	!	✓
Butyric acid	!	!		○							!	○		!
Chlorine	!						!	!	!	!	!	!	!	
Acetic acid	!	!		○							!		!	
Nitric acid	!	!									✓		!	
Ester		✓	✓	○	!	!								
Alcohol		✓	✓	○			✓						✓	
Mild alkalis		✓	✓	✓	✓	✓	○	○	!		✓	✓		✓
Mild acids		○	○	✓	✓	✓	!	!	✓	✓	✓			✓
Ether		✓	✓	○									!	
Water		✓	✓	✓	✓	✓								
Strong acids		!	!	○					!	!	!			!
Strong alkalis		!	!	✓					!		✓	✓		✓
Hydrofluoric acid				○							✓			
Paraffin hydrocarbon				○								○		
Haloalkanes				!										
Ketones				!	!								!	
Aldehyde				✓										
Organic acids				○							!	○		
Seawater					✓	✓								
Diesel fuel							✓	✓	✓		○	○	!	
Ammoniac									○				!	

Resistance: ✓ Resistant ○ Limited resistance ! Not resistant

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Plastic: material properties



Halogen freedom
Estimates suggest that around 95% of fire victims die not due to the immediate effects of the fire, but of poisoning from the smoke. In addition, the corrosive fire gases created during fires cause immense damage to property and can permanently damage the structure of a building. Therefore, halogen-free installation systems must, or should, always be used in public areas (emergency routes, lifts, etc.). The chemical composition of these halogen-free systems is designed in such a way that, in the event of fire, they produce less hazardous (toxic/corrosive) gases, which could combine with extinguishing agents to form hydrochloric acid. In the sense of the standard DIN VDE 0472, this means that materials are considered halogen-free when "the proportions of the halogens chlorine, bromine and iodine are ≤ 0.2% for chlorine and ≤ 0.1% for fluorine". OBO Bettermann offers a wide range of halogen-free products that reduce the risk of harm to people and property to a minimum in case of fire.



UV resistance
Outdoor installations should always be viewed particularly critically with regard to the mounting locations and the selection of the installation materials.
UV radiation is damaging to many plastics, causing them to turn yellow and/or brittle or lose their elasticity. However, plastics can be protected against UV damage through the addition of UV stabilisers. Products made from UV-resistant materials are specially marked. In general, besides UV radiation, installations outdoors must also take other environmental influences into account. Factors such as maximum temperatures, regularity of (extreme) temperature changes, humidity and the location of use/mounting (housing, industry, town, region, continent) all have an important role to play here.



Flame resistance/fire resistance
Materials are described as flame-resistant if they prevent the spread of fire or are sufficiently fire-resistant. According to DIN EN 60695-2-11 (VDE 0471 Part 2–11), electrical connection materials must be subjected to a glow wire test in order to evaluate the fire risk of the end product. When the glow wire test is being carried out, a glowing wire (for temperature see table below) is inserted into the component to be tested for a period of 30 seconds and then removed. After a further 30 seconds at the latest, the object, if it has caught light, must have extinguished again, in order to specify the flame resistance.



Types of installation systems

Types of samples Test temperatures in °C	Surface-mounted	Flush-mounted	In-plaster	Cavity wal-l/furniture	Concrete structure	Installation duct
Connection sockets	650	650	750	850	650	750
Device sockets and device connection sockets	750	650	-	850	650	750
Ceiling lights, connection sockets	750	650	-	850	650	750
Wall luminaire connection boxes	750	650	-	850	650	750
Device connection sockets	750	650	-	850	650	750
Connection sleeves	750	-	-	-	-	750
Insulation sections, which support active parts	960	-	-	-	-	-
Lid for installation sockets	750	-	-	-	-	-

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Protection ratings



IP protection rating
The IP protection rating specifies how far a component is protected against contact and foreign bodies and the ingress of water. The IP protection ratings are controlled by the standard DIN EN 60529 (VDE 0470 Part 1). The IP is always made up of two digits.

The first digit designates the contact and foreign body protection. On the one hand, it specifies how far a housing prevents access to dangerous parts, by preventing or limiting the ingress of body parts or objects held by a person. On the other hand, it specifies how far the housing protects the installed resources against the ingress of solid foreign bodies.

Protection rating

First code digit	...against access to the hazardous parts	...against solid foreign bodies
0	Protected against access to hazardous parts with the back of the hand	Non-protected
1	Protected against access to hazardous parts with a finger	Protected against solid foreign bodies of 50 mm diameter and larger
2	Protected against access to hazardous parts with a tool	Protected against solid foreign bodies of 12.5 mm diameter and larger
3	Protected against access to hazardous parts with a wire	Protected against solid foreign bodies of 2.5 mm diameter and larger
4	Protected against access to hazardous parts with a wire	Protected against solid foreign bodies of 1.0 mm diameter and larger
5	Protected against access to hazardous parts with a wire	Dust-protected
6	Protected against access to hazardous parts with a wire	Dust-proof

The second digit specifies the protection against water. It specifies how far the resource is protected against incoming water and the resulting damage.

Protection rating against the entry of water with a damaging impact

Second code digit	Short description	Definition
0	Non-protected	-
1	Protected against water droplets	Droplets falling vertically must not have a damaging impact.
2	Protected against drip water when enclosure tilted up to 15°	Vertically falling drops must not have harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical.
3	Protected against spray water	Water being sprayed at an angle of 60° on both sides of the vertical must not have any damaging impact.
4	Protected against spray water	Water spraying the housing from any direction must not have any damaging impact.
5	Protected against water jets	Jets of water pointing at the housing from any direction must not have any damaging impact.
6	Protected against strong water jets	Strong jets of water pointing at the housing from any direction must not have any damaging impact.
7	Protected against the effects of being temporarily immersed in water	If the housing is sometimes underwater under standard pressure and time conditions, then water may not enter in such volumes as would have a damaging impact.
8	Protected against the effects of being continuously immersed in water	Ingress of water in quantities causing harmful effects must not be possible when the housing is continuously immersed in water under conditions which shall be agreed between manufacturer and user. However, the conditions are more difficult to fulfil than for number 7.



IK code

The IK code to DIN EN 50102 indicates the protection rating of housings against external mechanical loads. It is made up of the code letters IK and a two-digit number from 00 to 10. Each group of numbers stands for a load energy value in joules (J). The IK code always applies to the complete housing, which guarantees the protection of resources against the damaging effects of mechanical loads. The housings are tested by knocking them with different testing hammers.

IK code	00	01	02	03	04	05	06	07	08	09	10
Stress energy value [J]	-	0.15	0.20	0.35	0.50	0.70	1	2	5	10	20

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Nominal values of electrical equipment



When using junction boxes, connection sockets and connection terminals, the resources are assigned nominal values. In the designation, a distinction is made between the maximum approved voltage (nominal voltage), the maximum approved current (nominal current) and the maximum approved cross-section (nominal cross-section of the cables to be connected).

2,5 mm²

Nominal cross-section
Largest tested-approved cross-section of the cables to be connected.

16 A

Nominal current
The nominal current is the highest permissible operating current that can be continuously passed through connections (e.g. terminals) marked with that value.

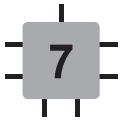
660 V

Nominal voltage
Greatest approved voltage at the connection point.

In addition to the nominal values, the number of entries for junction boxes and the number of poles of clamp connectors are also possible labels.

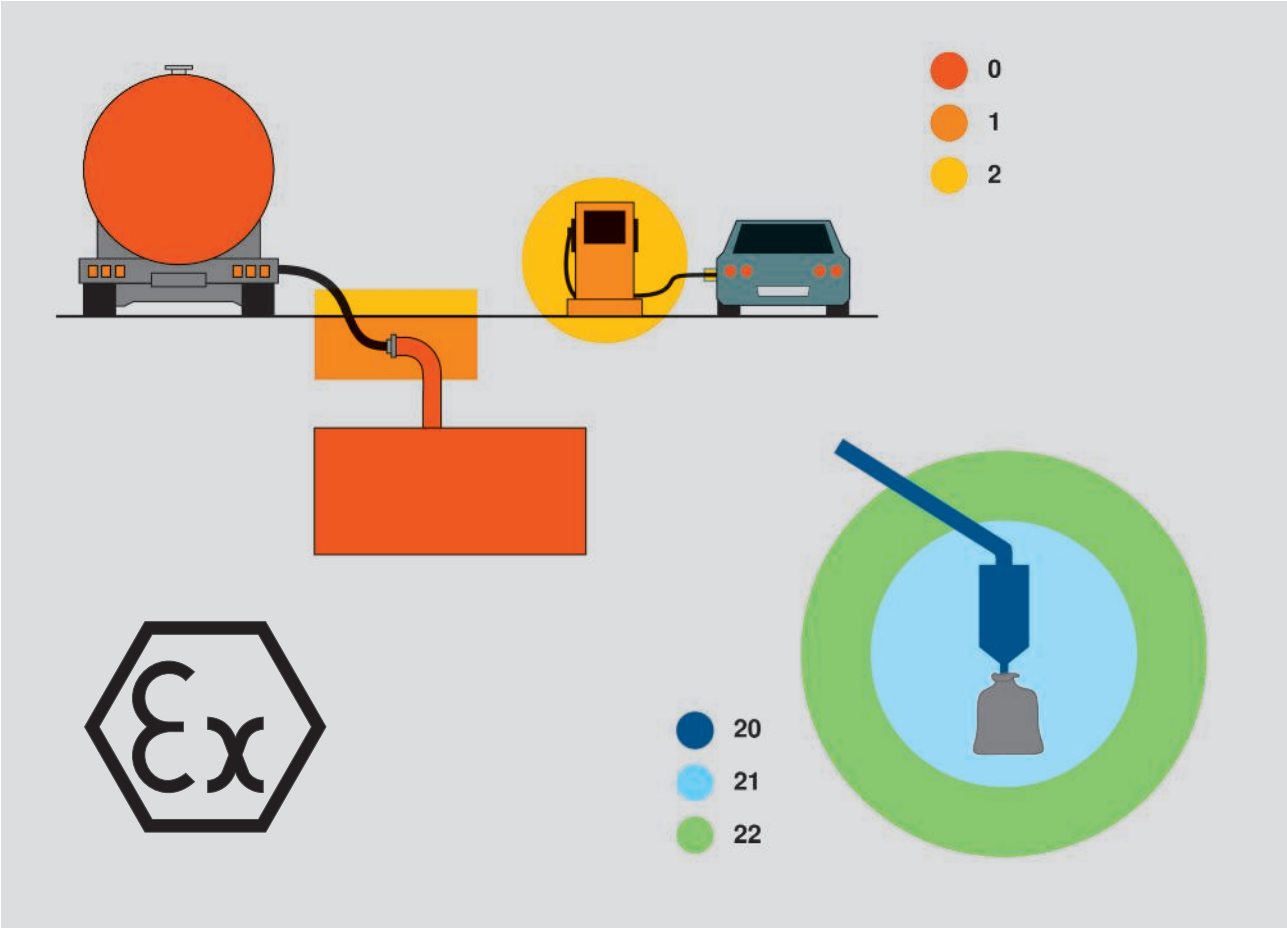


No. of poles
Number of connection points of the clamp connector.



Number of entries
Number of entries in an electrical connection box or connection socket.

Zone division for explosive areas



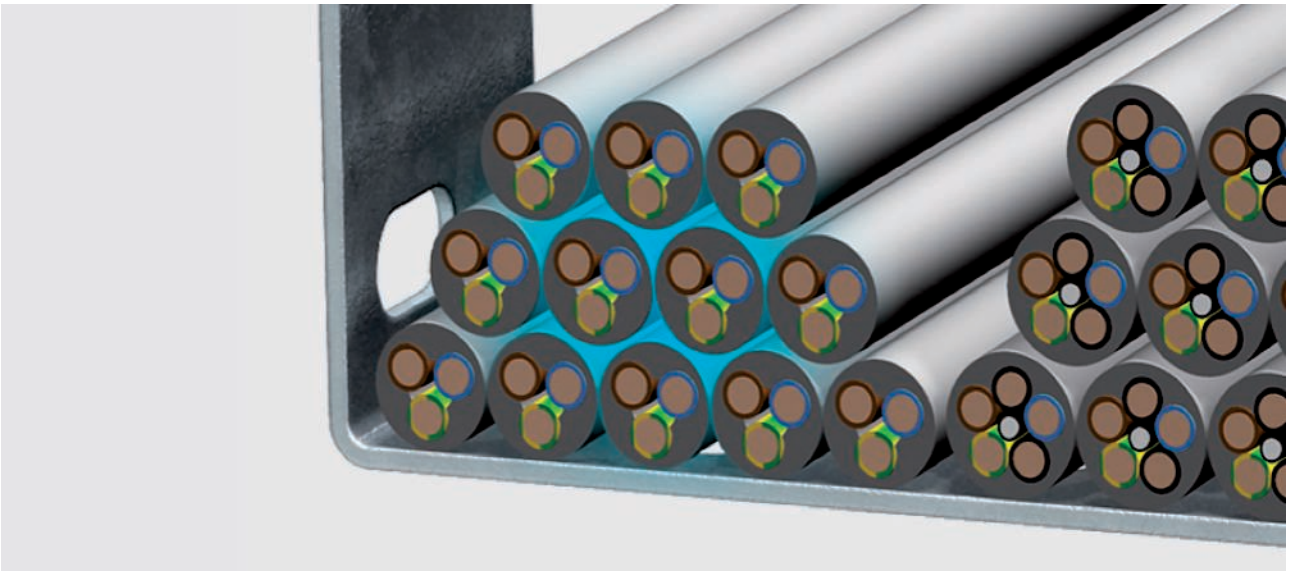
Products used in potentially explosive areas must comply with the ATEX directives. The ATEX workplace directive 1999/92/EC sets out the minimum requirements for improving the safety and health protection of workers at risk from potentially explosive atmospheres. The directive divides areas with dangerous, potentially explosive atmospheres into zones. Ex-tested products may be used in the respective zones in accordance with their approval.

Zone allocation of device group II (applied)

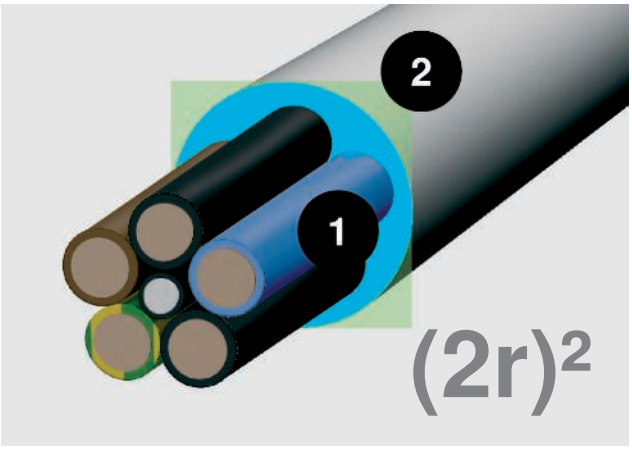
Gas	Dust
Explosive gas atmosphere, zone division to DIN EN 60079-10	**Explosive dust/air mixtures, zone division to DIN EN 61214-10**
Zone 0	Zone 20
An area in which it can be expected that, under normal conditions, an explosive atmosphere of gas occurs continuously or for long periods of time.	An area in which it can be expected that, under normal conditions, an explosive atmosphere of dust/air occurs continuously or for long periods of time.
Zone 1	Zone 21
An area in which it can be expected that, under normal conditions, an explosive atmosphere of gas occasionally occurs.	An area in which it can be expected that, under normal conditions, an explosive atmosphere of dust/air occasionally occurs.
Zone 2	Zone 22
Area, in which it can be expected that, under normal conditions, an explosive atmosphere of gas seldom or only briefly occurs.	Area, in which it can be expected that, under normal conditions, an explosive atmosphere of dust/air seldom or only briefly occurs.

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Cable sizes

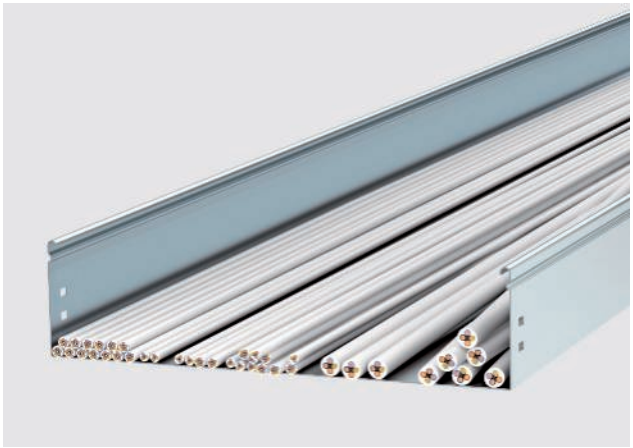


The term “cable” means a jacketed electrical cable for the transmission of electrical energy and data. Cables are given according to their nominal cross-section. The external diameter and usable cross-section depend on their nominal cross-section and the number of individual wires contained in the cable. When fastening clips or cable support systems are used, it is important to know the actual space requirements of the individual cables. It is not sufficient to take only the diameter as a basis for the calculation of the cable volume.



Circular area (1) and space required (2)

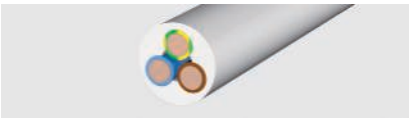
Calculation with the formula (2r)²
The diameter says little about the actual space required by a cable. Calculate: (2r)². This value reflects the realistic space requirements, including the compartments.



To save you work, we have listed the diameter and usable cross-section of the most important cable types below.

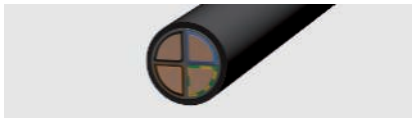
Important:
These values are average values, which may vary from manufacturer to manufacturer. Please refer to the manufacturer's specifications for the exact values.

Basic values for the calculation of the cable volume



Insulated power cables

Type	Diameter mm	Usable cross-section cm²
1 x 4	6.5	0.42
1 x 6	7	0.49
1 x 10	8	0.64
1 x 16	9.5	0.9
1 x 25	12.5	1.56
3 x 1.5	8.5	0.72
3 x 2.5	9.5	0.9
3 x 4	11	1.21
4 x 1.5	9	0.81
4 x 2.5	10.5	1.1
4 x 4	12.5	1.56
4 x 6	13.5	1.82
4 x 10	16.5	2.72
4 x 16	19	3.61
4 x 25	23.5	5.52
4 x 35	26	6.76
5 x 1.5	9.5	0.9
5 x 2.5	11	1.21
5 x 4	13.5	1.82
5 x 6	14.5	2.1
5 x 10	18	3.24
5 x 16	21.5	4.62
5 x 25	26	6.76
7 x 1.5	10.5	1.1
7 x 2.5	13	1.69



Insulated power cables

Type	Diameter mm	Usable cross-section cm²
1 x 10	10.5	1.1
1 x 16	11.5	1.32
1 x 25	12.5	1.56
1 x 35	13.5	1.82
1 x 50	15.5	2.4
1 x 70	16.5	2.72
1 x 95	18.5	3.42
1 x 120	20.5	4.2
1 x 150	22.5	5.06
1 x 185	25	6.25
1 x 240	28	7.84
1 x 300	30	9
3 x 1.5	11.5	1.32
3 x 2.5	12.5	1.56
3 x 10	17.5	3.06
3 x 16	19.5	3.8
3 x 50	26	6.76
3 x 70	30	9
3 x 120	36	12.96
4 x 1.5	12.5	1.56
4 x 2.5	13.5	1.82
4 x 6	16.5	2.72
4 x 10	18.5	3.42
4 x 16	21.5	4.62
4 x 25	25.5	6.5
4 x 35	28	7.84
4 x 50	30	9
4 x 70	34	11.56
4 x 95	39	15.21
4 x 120	42	17.64
4 x 150	47	22
4 x 185	52	27
4 x 240	58	33.6
5 x 1.5	13.5	1.82
5 x 2.5	14.5	2.1
5 x 6	18.5	3.42
5 x 10	20.5	4.2
5 x 16	22.5	5.06
5 x 25	27.5	7.56
5 x 35	34	11.56
5 x 50	40	16



Telecommunications cables

Type	Diameter mm	Usable cross-section cm²
2 x 2 x 0.6	5	0.25
4 x 2 x 0.6	5.5	0.3
6 x 2 x 0.6	6.5	0.42
10 x 2 x 0.6	7.5	0.56
20 x 2 x 0.6	9	0.81
40 x 2 x 0.6	11	1.12
60 x 2 x 0.6	13	1.69
100 x 2 x 0.6	17	2.89
200 x 2 x 0.6	23	5.29
2 x 2 x 0.8	6	0.36
4 x 2 x 0.8	7	0.49
6 x 2 x 0.8	8.5	0.72
10 x 2 x 0.8	9.5	0.9
20 x 2 x 0.8	13	1.69
40 x 2 x 0.8	16.5	2.72
60 x 2 x 0.8	20	4
100 x 2 x 0.8	25.5	6.5
200 x 2 x 0.8	32	10.24



IT cables type Cat...

Type	Diameter mm	Usable cross-section cm²
Cat. 5	8	0.64
Cat. 6	8	0.64



Coax cable (Standard)

Type	Diameter mm	Usable cross-section cm²
SAT/BK cable	6.8	0.48

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Selection of the correct fastening clip



Fastening clips are given with their maximum span distance as a nominal size in mm. This makes it easy to determine the appropriate clip for the planned cable volume. If the necessary clamping range is between two nominal sizes, e.g. 16 mm, we recommend using the smaller nominal size.

If cables are not fastened directly in the clip, but routed through an installation pipe for example, the relationship between the external diameter and metric or PG sizes must be observed when selecting the correct fastening clip. You will find more information on this in the table below.

Overview of external diameters, metric and PG sizes

External diameter in mm	Metric size	PG size
Up to 12	M12	PG 7
Up to 16	M16	PG 9/PG 11
Up to 20	M20	PG 13.5/PG 16
Up to 25	M25	PG 21
Up to 32	M32	PG 21
Up to 40	M40	PG 36
Up to 50	M50	PG 42/PG 48
Up to 63	M63	-

Cable glands and the DIN EN 62444 standard

Cable glands are manufactured and tested according to DIN EN 62444. Amongst other things, this standard controls the retaining ability and strain relief of cables. The V-TEC cable glands from OBO Bettermann correspond to version “A”. Table 2A indicates the extraction forces that these cable glands must withstand according to the standard. The V-TEC cable glands also fulfil the requirements of DIN EN 62444 with regard to the twist protection of cables (see Table 3). To ensure the tested dust and moisture protection of the cable glands, continuous perforations should correspond to the mounting openings specified in the standard DIN EN 62444 according to Table 1. The on-site specialist must ensure that these parameters are complied with in order to hand over a functioning system.

Table 1

Size of the penetration hole	mm	6	8	10	12	16	20	25	32	40	50	63	75
Thread of the cable gland	M	M6	M8	M10	M12	M16	M20	M25	M32	M40	M50	M63	M75
Diameter of the mounting hole (+0.2/–0.4)	mm	6.5	8.5	10.5	12.5	16.5	20.5	25.5	32.5	40.5	50.5	63.5	75.5

Table 2 A

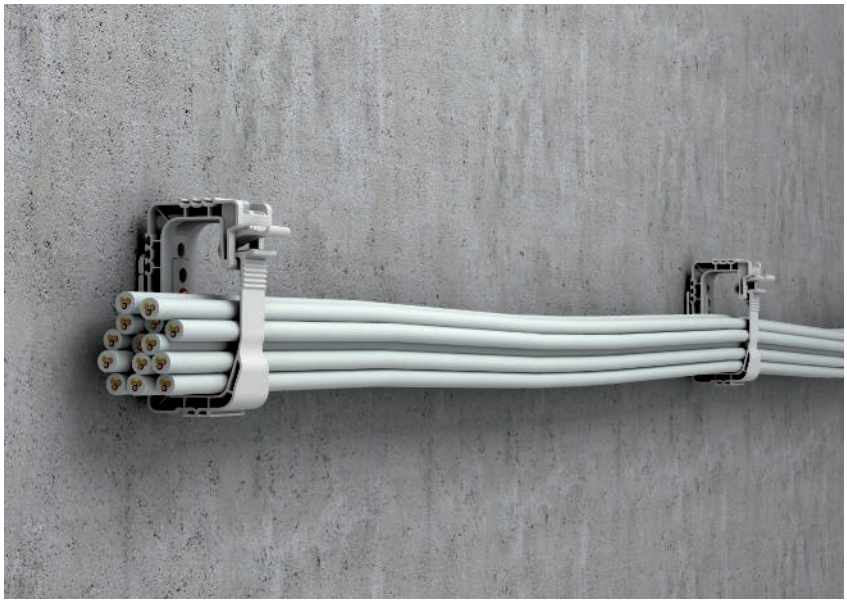
Cable diameter	Retaining capacity	Strain relief, version A
mm	N	N
to 4	5	–
>4 to 8	10	30
>8 to 11	15	42
>11 to 16	20	55
>16 to 23	25	70
>23 to 31	30	80
>31 to 43	45	90
>43 to 55	55	100
>55	70	115

Table 3

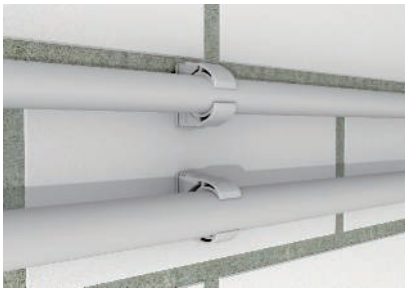
Cable diameter	Torque Version A and B
mm	Nm
>4 to 8	0.10
>8 to 11	0.15
>11 to 16	0.35
>16 to 23	0.60
>23 to 31	0.80
>31 to 43	0.90
>43 to 55	1.00
>55	1.20

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Information on cable fastenings





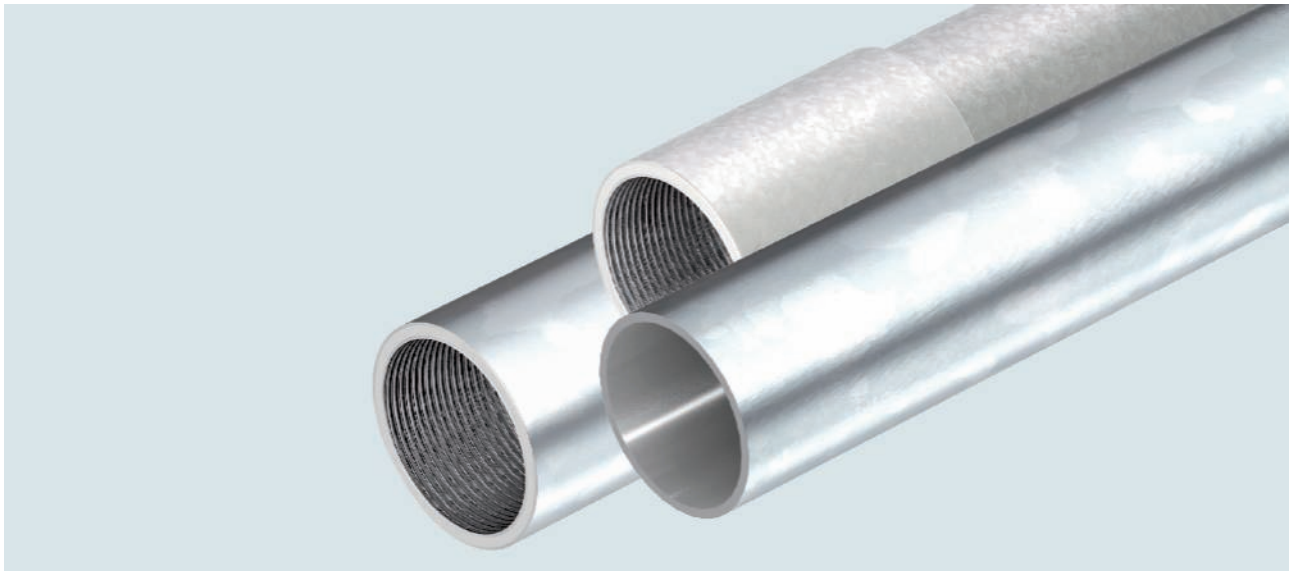


Cable fastening
The standard DIN EN 61914 "Cable holders for electrical installations" specifies that cable holders "must be able to accept cables or cable bundles of the diameter specified by the manufacturer or responsible retailer, without tearing or breaking or shearing off the threads of bolts".
During the installation of cables, the current national and international standard must be taken into account, such as DIN VDE 0100 520. “Suitable tools and methods, which prevent damage or changes to the shape” must be used for fastening.
In addition, with masses of cables, DIN VDE 0298 requires the appropriate "load capacities of cables for fixed laying in and on buildings..." to be taken into account when selecting the fastening systems.

Besides these standardising aspects, the end customer‘s or client‘s particular laying specifications can/must be taken into account.
The fastening spacing for cables is given in DIN VDE 0100-520, June 2013. For example, cables laid horizontally require a spacing of 20x the cable diameter. However, a spacing of 80 cm should not be exceeded. With vertical routing, the clip spacings may be increased but should not exceed 1.5 m.
The table below shows the maximum fastening spacings for cables according to the cable diameter. The laying spacings given in the Industrial installation product catalogue, e.g. for bus holders or Quick clips, are guide values and can only be treated as such.

External diameter of the cables	Maximum spacing for horizontal fastening	Maximum spacing for vertical fastening
mm	mm	mm
D ≤ 9	250	400
9 < D ≤ 15	300	400
15 < D ≤ 20	350	450
20 < D ≤ 40	400	550

IEC classification in accordance with DIN EN 61386-1

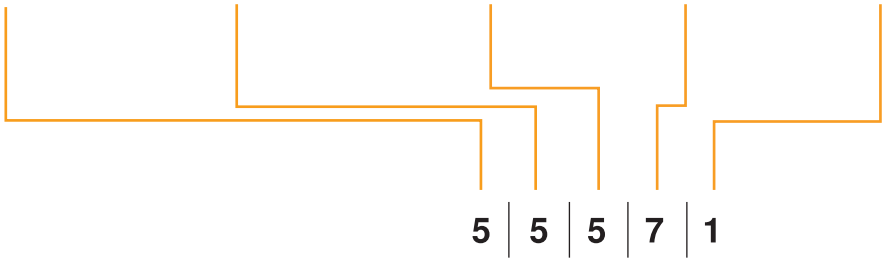


The OBO Bettermann pipe systems are machined and tested according to DIN EN 61386 (Electrical installation pipe systems for electrical energy and information) and DIN EN 60423 (External diameters of electrical installation pipes and thread for electrical installation pipes and their accessories).

Numeric code

DIN EN 61386-1 classifies installation pipes using a 12-digit numeric code, which provides information on the pressure resistance, impact resistance or use temperatures. You can find the first five digits in the product descriptions of the pipe systems.

	First digit		Second digit		Third digit		Fourth digit		Fifth digit
	Pressure resistance		Impact resistance		Lower temperature range		Upper temperature range		Bending behaviour
1	Very light (125 N)	1	Very light (0.5 kg/100 mm)	1	+5 °C	1	+60 °C	1	Rigid
2	Light (320 N)	2	Light (1.0 kg/100 mm)	2	–5 °C	2	+90 °C	2	Bendable
3	Medium (750 N)	3	Medium (2.0 kg/100 mm)	3	–15 °C	3	+105 °C	3	Pliable, self-re-covering
4	Heavy (1,250 N)	4	Heavy (2.0 kg/300 mm)	4	–25 °C	4	+120 °C	4	Flexible
5	Very heavy (4,000 N)	5	Very heavy (6.8 kg/300 mm)	5	–45 °C	5	+150 °C		
						6	+250 °C		
						7	+400 °C		



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Classification according to IEC EN 61386-1: Composition of the IP code

	7th digit		8th digit
	Ingress of solid bodies		Ingress of water
0		0	None declared
1		1	Protected against vertically falling water drops
2		2	Protected against vertically falling water drops, when the pipe system is tilted up to an angle of 15°
3	Protected against solid foreign objects of 2.5 mm Ø and greater	3	Protected against spraying water
4	Protected against solid foreign bodes of 1.0 mm Ø and larger	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-proof	6	Protection against powerful water jets
7		7	Protected against the effects of temporary immersion in water

Classification according to IEC EN 61386-1: Corrosion protection

	9th digit	
	Resistance against corrosion	Suitable surfaces
1	Low protection, inside and outside	
2	Medium protection, inside and outside	• Black coated (SW) • Electrogalvanised (G) • Strip galvanised (FS)
3	Medium protection inside, high protection outside	
4	High protection inside and outside	• Hot-dip galvanised (FT) • Stainless steel (V2A, V4A)







Protection against mechanical loads
OBO metal pipes are particularly suited to use under tough industrial conditions. They provide reliable protection against very heavy mechanical loads during cable routing.

The different material and surface qualities, from galvanised to painted, allow perfect adaptation to the requirements of the appropriate environment.

Maintenance of electrical function to E30/E90
Our steel pipes guarantee the maintenance of electrical function to E30/E90. They are thus ideal for the connection of safety-relevant equipment, such as smoke extraction systems.

Definition of electromagnetic compatibility (EMC)



Recent years have seen the use of electronic circuits increase continually. Whether in industrial systems, medicine, households, telecommunications systems or electrical building installations – we find powerful electrical equipment and systems everywhere, and these switch ever greater currents, achieve greater radio ranges and transport ever more power in smaller spaces.

However, the use of state-of-the-art technology means that the complexity of applications also increases. The consequence of this is that ever more opposing influences (electromagnetic interferences) can occur from system parts and cables, causing damage and economic losses.

Here, we talk of electromagnetic compatibility:
Electromagnetic compatibility (EMC) is the ability of an electrical unit to function satisfactorily in its electromagnetic environment, without inappropriately influencing this environment, to which other units also belong (VDE 0870-1). In terms of standardisation, electromagnetic compatibility is dealt with by the EMC Directive 2004/108/EC. This means that electrical resources emit electromagnetic interferences (emissions), which are picked up by other devices or units (immission) that act as receivers (interference sink). This in turn means that the function of an interference sink can be severely reduced and, in the worst-case scenario, result in total failure and economic losses. The interferences can then spread along cables or in the form of electromagnetic waves.

Path of faults

Fault source (transmitting emissions)	Coupling of interference variables (spreading of interference)	Fault sink (receiving emissions)
For example - Mobile telephones - Switching components - Ignition systems - Frequency converters - Lightning strike - Welding devices	- Galvanic - Inductive - Capacitive - Electromagnetic	- Process computer - Radio receiver systems - Controllers - Converters - Measuring units

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Guarantee of EMC



Guaranteeing EMC
A systematic planning process is necessary to guarantee EMC. The interference sources must be identified and quantified. The coupling describes the spread of the interference from the interference source up to the device being influenced, the interference sink. The task of EMC planning is to ensure the compatibility at the source, coupling path and sink using suitable measures. During their daily work, planners and installation engineers are confronted with this subject on an increasingly regular basis. This means that EMC is a basic factor to be taken into consideration during the planning of installations and cabling systems.
Due to the high complexity of electromagnetic compatibility, the problems of EMC must be analysed and solved using simplifying hypotheses and models, as well as experiments and measurements.

Cable support systems and their contribution to EMC
Cable support systems can make an important contribution to the improvement of EMC. They are passive and can thus make a safe, long-lasting contribution to EMC through the fact that cables are run within cable support systems or are shielded by them. Routing cables inside cable support systems greatly reduces the galvanic decoupling and coupling due to electrical and magnetic fields in the cables. Thus, cable support systems can make a contribution to the reduction of coupling from the source to the sink. The shielding action of cable support systems can be quantified by the coupling resistance and the shield attenuation. This gives the planner important engineering parameters for cable support systems for EMC engineering.

Lightning discharge
From the analysis of the effectiveness of EMC in buildings (EN 62305-4), we know that lightning discharge is one of the greatest sources of interference to be expected. This causes a direct current feed into the entire equipotential bonding system in the building and/or to magnetic decoupling of interference currents in electrical cables. With regard to these couplings, cable support systems can offer an effective contribution to the reduction of interference voltages.

Standards, specifications and certifications



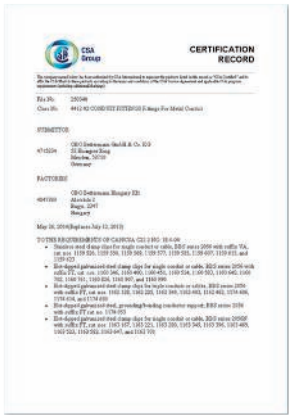














Standards

OBO offers products for professionals, made by professionals. Our products are manufactured and tested according to the respective specifications of the standards. For example, DIN EN 61537 describes all the relevant parameters for cable support systems, such as the area of application, test conditions, corrosion resistance and temperature classification. As a highly competent manufacturer, OBO subjects itself to these requirements on a daily basis. Comprehensive test procedures guarantee that systems which conform to standards function safely.

Specifications

All the OBO products and systems are CE-compliant according to the appropriate EC guidelines. This also applies to standard parts such as bolts, washers and nuts that are components of various product systems. The appropriate EC declaration of conformity certifies agreement with the named directives or standards, but does not guarantee properties. The safety instructions in the product information and the general safety regulations must be complied with during installation and use.

Certifications

For OBO, product quality is closely connected to continuous testing and checking – which is why we manufacture almost all our products ourselves. This enormous depth of production is an expression of our demand for quality. From construction, and the materials used through production, right up to logistics, our employees personally guarantee the quality and availability of OBO products.

The multitude of approvals emphasise our high demand for quality and product functionality.

Our integrated quality management system forms the solid basis of our ISO 9001 certification, which we have held since 1994. The confirmation of suitability enables defined and workable processes in accordance with KTA 1401 and 10 CFR 50.

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Certificates and test marks

VDE
VDE is the Association for Electrical, Electronic and Information Technologies, their study and the technologies and applications based upon them. The VDE mark on electrical equipment is proof that the equipment complies with VDE regulations and/or European or international harmonised standards, and meets the safety requirements of the applicable directives. The VDE mark indicates that a product is safe in relation to electrical, mechanical, thermal, toxic, radiological and other hazards.

CE symbol
Technical resources included in a legal ordinance, i.e. electrical resources, machines and safety components, must have a CE symbol, with which the manufacturer confirms that the safety requirements of the ordinances are fulfilled. In addition, there must also be a declaration of conformity and technical documentation. The CE symbol is not a quality mark, but simply a declaration by the manufacturer that they have complied with the legal requirements and the codes of practice.

UL
Underwriters Laboratories (UL) is an independent organisation that tests and certifies product safety. UL certification is generally required if a product is to be sold on the US market.
UL offers various certification options: The “UL Listed” test mark indicates that UL has tested representative samples of a product and that it conforms to UL’s safety requirements. The “UL Recognized” component test mark entitles a product to be used in a product or system bearing the “UL Listed” test mark.

First-hand support and knowledge



OBO seminars: First-hand knowledge
With a comprehensive programme of training courses and seminars, OBO supports its customers with first-hand specialist knowledge. Besides the theoretical principles, practical everyday implementation is also dealt with. Special calculation and application examples round off the comprehensive programme of knowledge transfer.

Invitations to tender, product information and data sheets
We can make life easier for you, with our comprehensive selection of materials designed for practical applications, which provide you with effective support with the planning and calculation of a project. These include:

- Invitations to tender
- Product information
- Data sheets

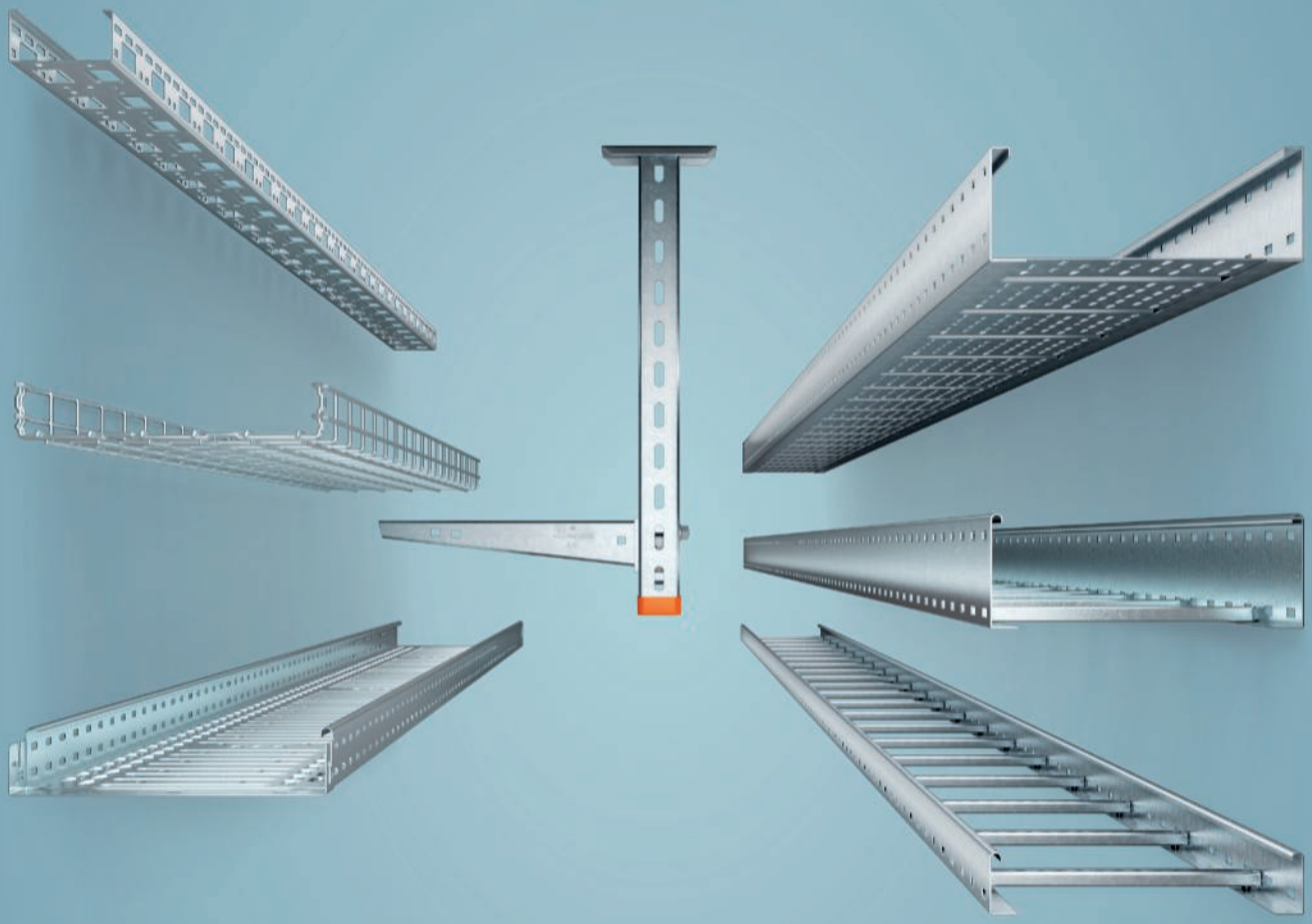
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Test marks

	American Bureau of Shipping, USA
	AENOR, Producto Certificado, Spain
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland
	Lightning current-tested
	Lightning current-tested, Class H (100 kA)
	CEBEC, Belgium
	Canadian Standards Association, Canada
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark
DIBt	Deutsches Institut für Bautechnik Berlin, Germany
	Det Norske Veritas
	ENEC Austria
	ATEX certificate for explosive areas
	ELEKTROTECHNICKÝ ZKUŠEBNÌ ÚSTAV, Czech Republic
	FIMKO, Finland
	Forschungs- und Materialprüfungsanstalt, Germany
	Russia, GOST The State Committee for Standards
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany
	Halogen-free; without chlorine, fluorine and bromine
	INMETRO, Brazil
	KEMA-KEUR, Netherlands
	Indication of metric products
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary
	NEMKO, Norway
	AFNOR Quality symbol of the French standardisation institute

	Underwriters Laboratories Inc., USA + CSA, Canada
	Österreichischer Verband für Elektrotechnik, Austria
	INSTITUTO ITALIANO DEL MARCHO DI QUALITÁ, Italy
	RINA 1861, Ship Classification, Certification and Services
	Underwriters Laboratories Inc., USA
	SEMKO An Inchcape Testing Services Company, Sweden
	Eidgenössisches Starkstrominspektorat, Switzerland
	South African Bureau of Standards
	Shock-tested, Bundesamt für Zivilschutz, Germany
	Sähkötarkastuskeskus Elinspektionscentralen Electrical Inspectorate, Finland
	Underwriters Laboratories Inc., USA
	Underwriters Laboratories Inc., USA
	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	German Association of Electricians, tested safety
	5-year warranty



Cable support systems


Cable trays 44


Wide span systems 172


Mesh cable trays 200


Cable ladder systems 250

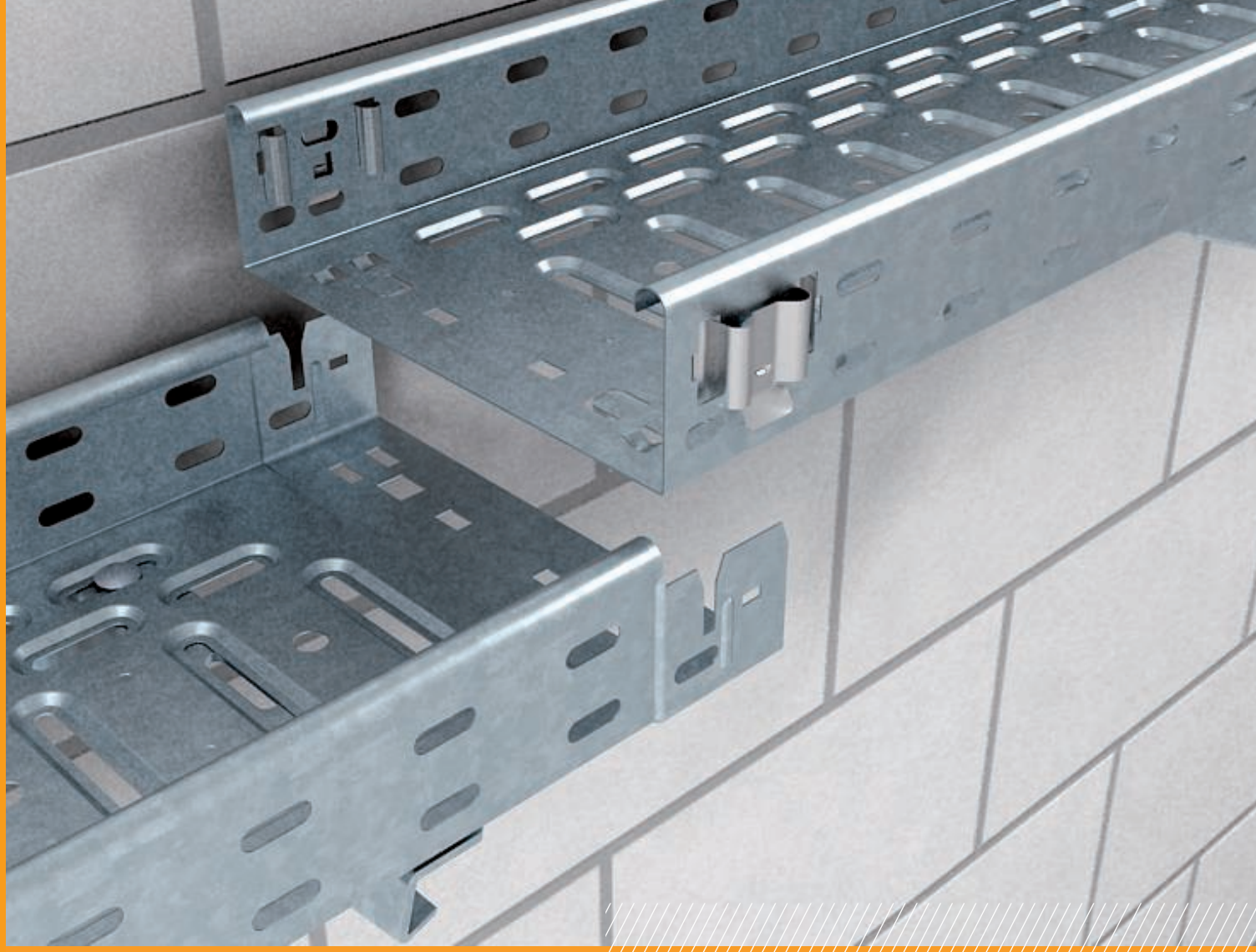

Luminaire support systems 318


Modular systems 332


Mounting systems 342


Motor connection column 466

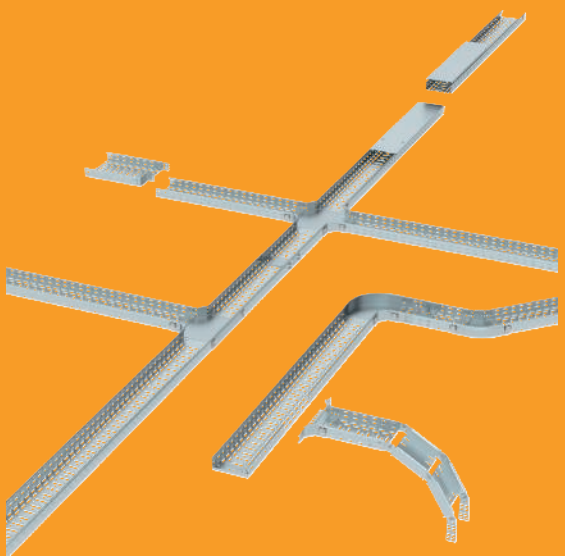
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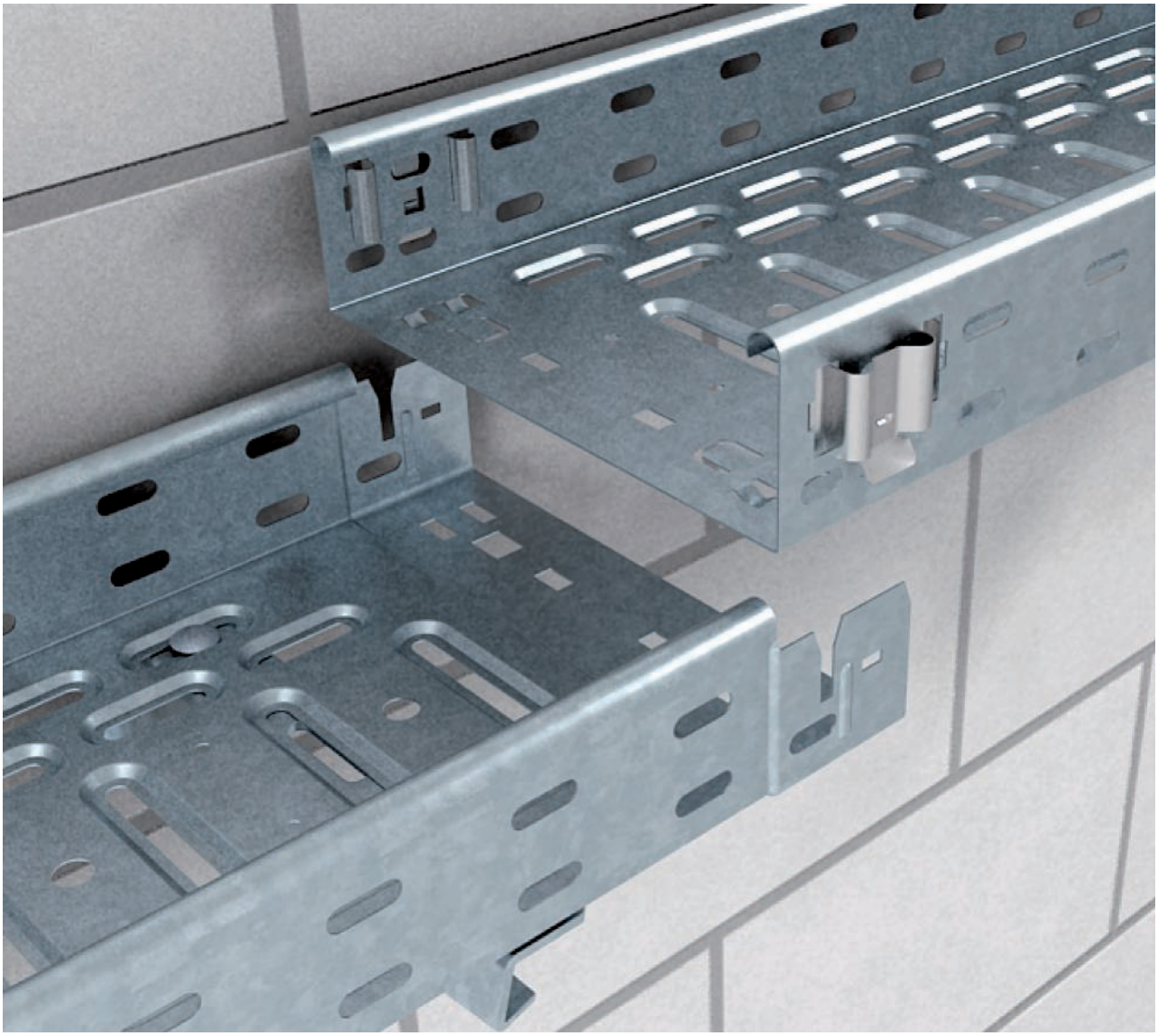
RKS-Magic® cable tray system

The RKS-Magic® cable tray system permits even faster straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place - and you're done!

- Fast and secure connection through patented plug connection
- Locking system accessory, such as the barrier strip
- Maintenance of electrical function, tested
- Equipotential bonding without additional components
- VDE and UL approved cable tray system



System description



The RKS-Magic® cable tray system permits particularly fast straight connection of the cable trays. The innovative, screwless straight connector can be mounted in the blink of an eye. Just connect the ends of the cable tray, lock them in place – and you're done! The long-lasting, static straight connectors can be permanently stabilised by bending the connection flaps. The RKS-Magic® cable tray is available with the side heights 35 and 60 mm. A comprehensive range of fittings with bends (45° and 90°), T branch pieces, add-on tees and cross-overs completes the system. Also 90° bends and adjustable bends (rising/falling) are available for vertical changes of direction. When mounting fittings, always plan additional supports.

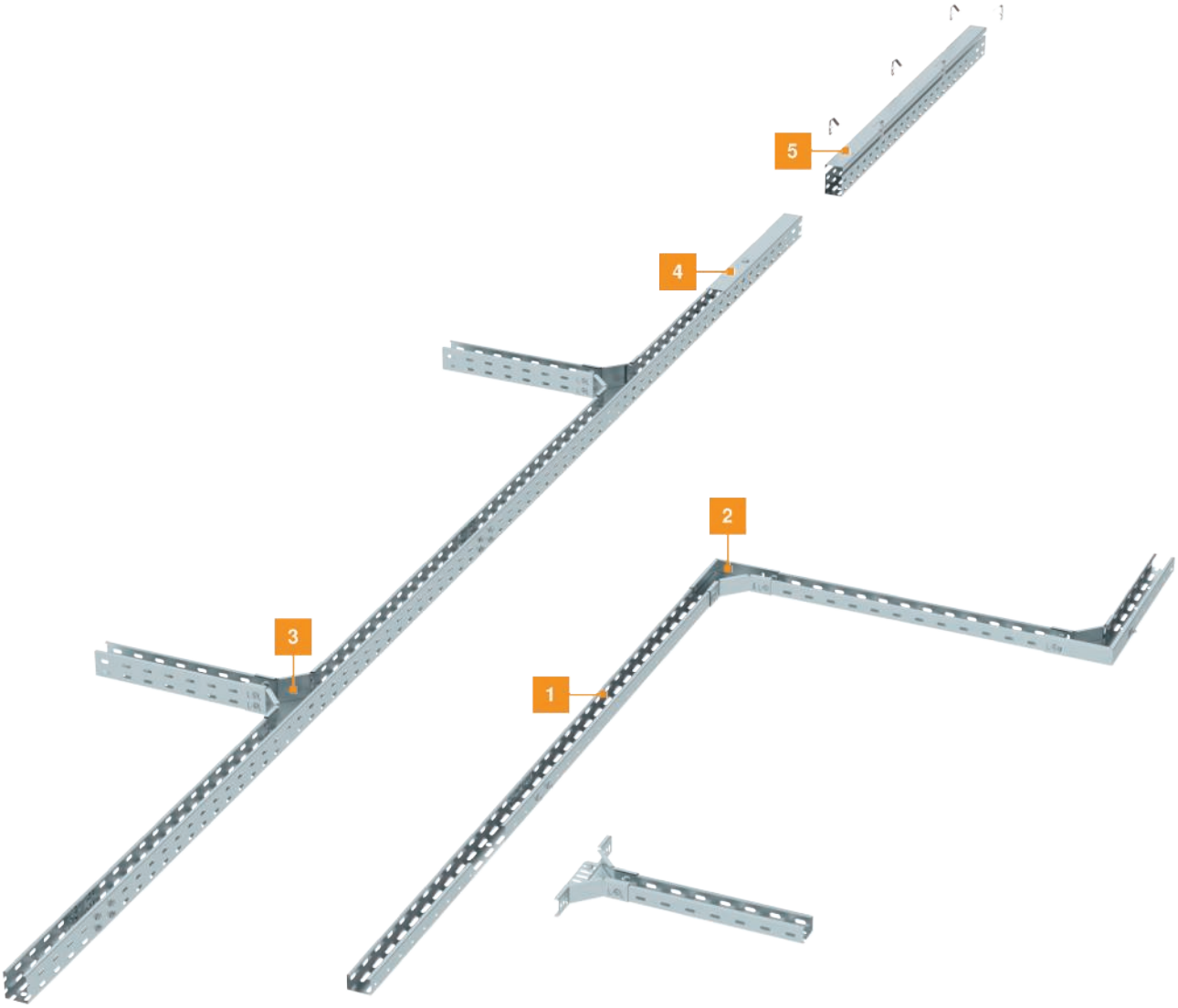
Besides the various fittings, the system also includes all types of connectors (straight, angle and adjustable connectors) and additional accessories such as barrier strips, joint plates, mounting plates and covers.

You can find detailed mounting examples and article descriptions on the following pages. The RKS-Magic® cable tray is tested for routing with the maintenance of electrical function. You can find comprehensive information on this in our new Safety and protective installations product catalogue.

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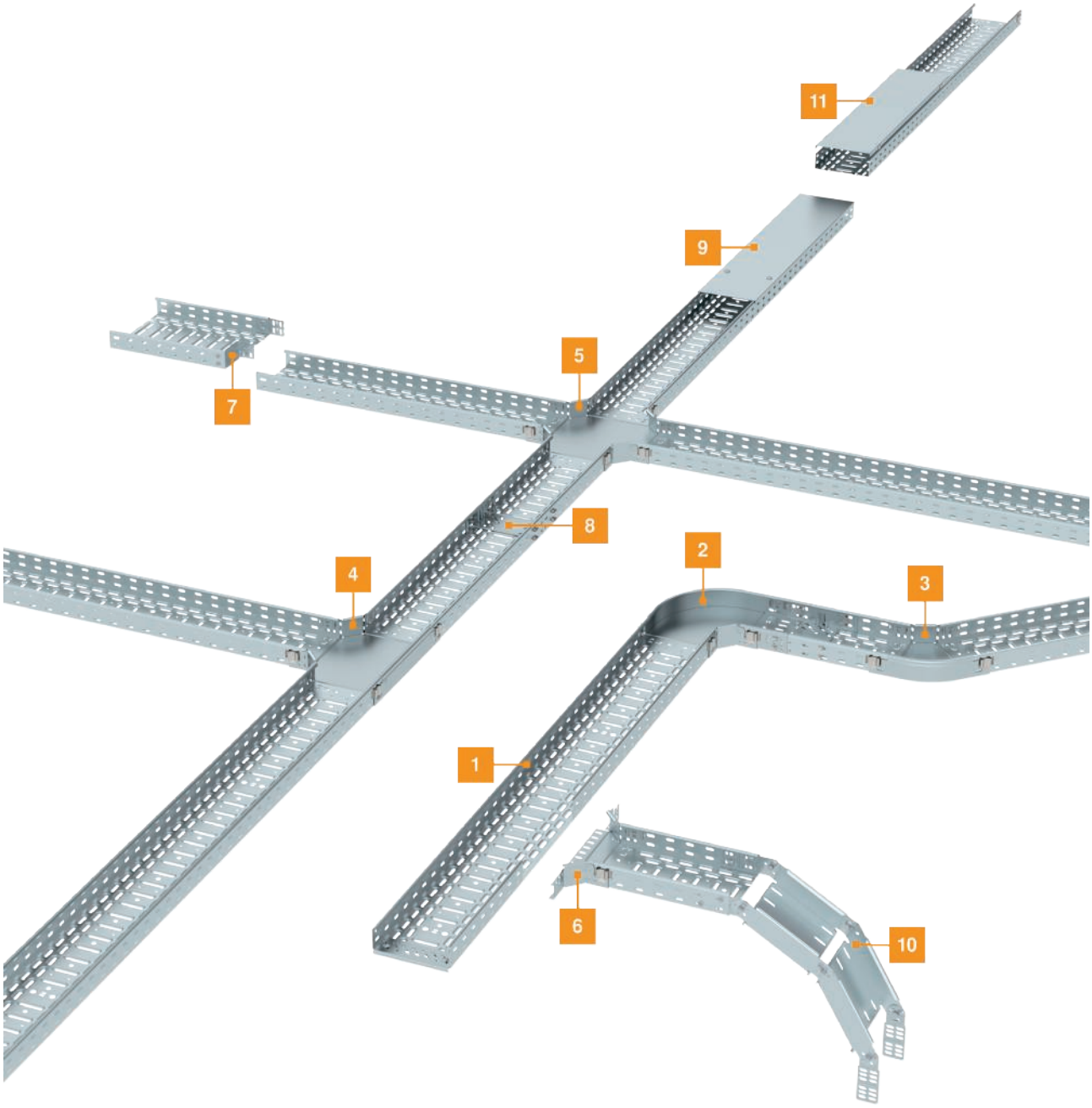
RKS cable tray system

Installation principle



1	RKS cable tray
2	90° bend
3	T branch piece
4	Cover with turn buckle
5	Unperforated cover with cover clamp

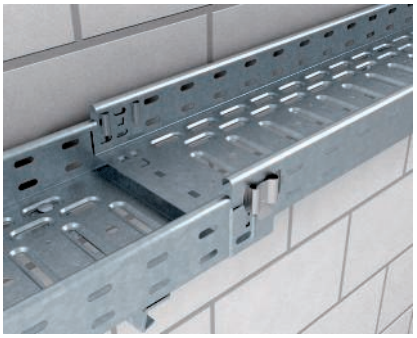
Installation principle



1	RKSM cable tray
2	90° Magic bend
3	45° Magic bend
4	Magic T branch piece
5	Magic horizontal cross-over
6	Magic add-on tee
7	Reducer/stop-end
8	Magic straight connector set
9	Cover with turn buckle
10	Adjustable bend element
11	Unperforated cover with cover clamp

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Mounting aid



Straight connection, cable tray interconnection
The spring element of the cable tray to be connected is snapped into the spring seat of the preceding cable tray from above.



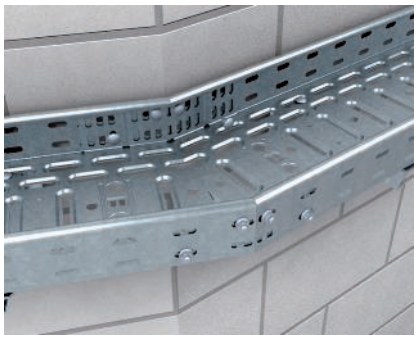
Cable tray fastening
The connected cable trays are fixed in place by bending the connection straps in the base with a screwdriver.



Slackening the connection
The straight connector can be released again at any time. To do this, push a screwdriver under the spring element to release the lock.



Mounting of Magic KTSMV straight connector set
To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.



Horizontal angle connection of cable trays
Horizontal angle connection of cable trays for brackets created during construction and cut cable tray ends.



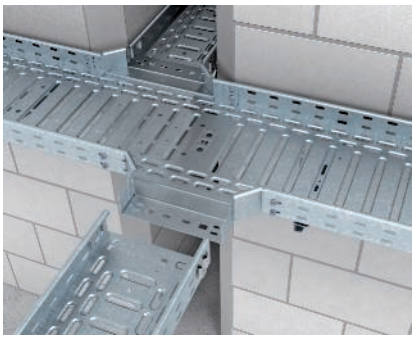
Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



Width change and end closure
Illustration of a width change through the installation of the reducer. This component allows the implementation of an end closure of cable trays.



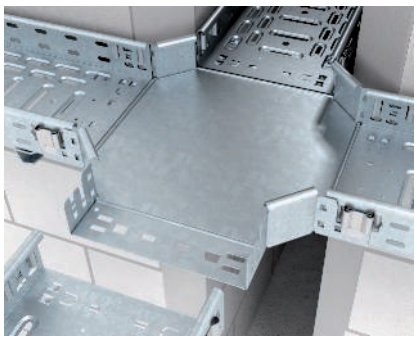
Mounting of Magic bend
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



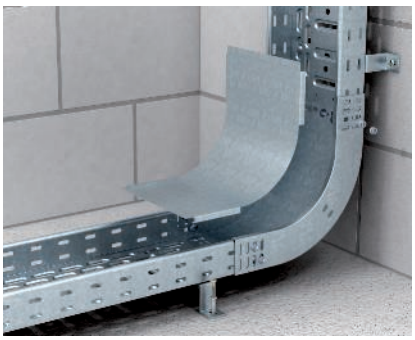
Mounting of Magic mounting/branch piece
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic vertical mounting/branch piece (bottom view)
Vertical mounting of the add-on tee as lengthwise funnel. Perforation in the cable tray is created on-site. For widths > 400 mm, please order connectors separately.



Mounting of Magic cross-over
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



90° bend (rising/falling)
The 90° vertical bend is pushed over the rail of the cable tray and bolted with truss-head bolts, FRSB M6 x 12 mm. The cover is placed on loosely and fastened using the incoming cable tray covers. The cover clamp DKU can be used for additional fastening.



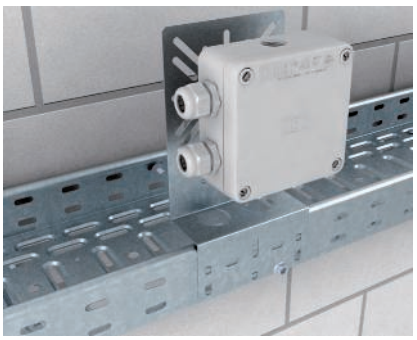
Installation of rising adjustable vertical bend
Adjustable vertical bend to bridge height offsets or when changing from horizontal to vertical. The adjustable vertical bend is fastened to the cable tray directly using the adjustable connectors.



Installation of falling adjustable vertical bend
Installation of the adjustable vertical bend, falling, to bridge height differences and changes from the horizontal to the vertical.



Installation of bottom end plate
The bottom end plate is fastened to the end of the cable tray. It is used to protect outgoing cables.



Mounting plate with quick fastening
Fastening of the mounting plate, type MP, on the side rail of the cable tray. The mounting plate can be fastened to the rail with quick connectors, and permanently fastened using truss-head bolts of type FRSB 6x12 mm.



Installation of cover with turn buckle
The cover is fastened to the cable tray using turn-buckles; this is done by clamping the turn buckle under the rolled up side rail of the cable tray with a 90° turn.



Screwless cover fastening with cover clamp
Screwless cover mounting takes place with unperforated covers and the cover clamps, type DK DRLU. The cover clamp is simply fixed in the rail of the cable tray.

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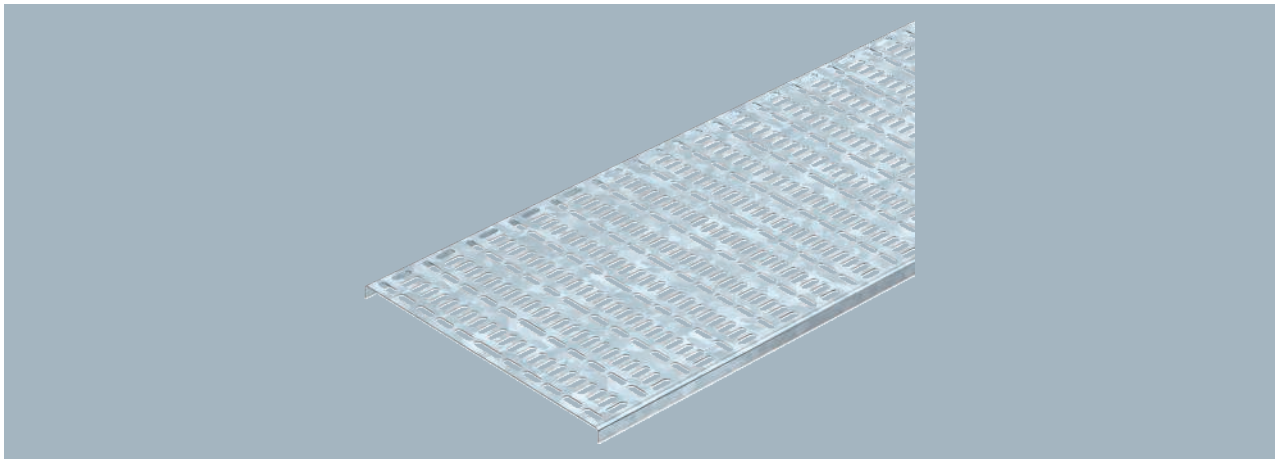
Installation of cover for fitting
The fitting cover is fastened to the cable tray using turn buckles; this is done by clamping the turn buckle under the rolled up side rail of the cable tray with a 90° turn.



Screwed barrier strip mounting
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

St FS

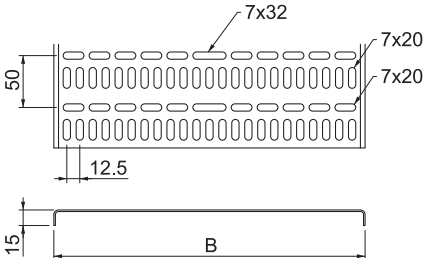
Cable tray, marine standard MKR 15



Cable tray for use in ship construction, produced according to the marine standard VG 88900-1.

Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKR 15 050 FS	50	1.25		2	61.500	**6046370**
MKR 15 075 FS	75	1.25		2	78.500	**6046372**
MKR 15 100 FS	100	1.25		2	94.650	**6046374**
MKR 15 125 FS	125	1.25		2	113.400	**6046375**
MKR 15 150 FS	150	1.50		2	154.100	**6046376**
MKR 15 250 FS	250	1.50		2	235.250	**6046379**
MKR 15 400 FS	400	1.50		2	357.000	**6046037**

Dimensions



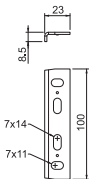
Type	Length mm	Dim. B mm	Side height mm
MKR 15 050 FS	2000	50	15
MKR 15 075 FS	2000	75	15
MKR 15 100 FS	2000	100	15
MKR 15 125 FS	2000	125	15
MKR 15 150 FS	2000	150	15
MKR 15 250 FS	2000	250	15
MKR 15 400 FS	2000	400	15

A2 2B

Screw connector 15

Type		Pack Piece	Weight kg/100 pc.	Item no.
MKR SV A2		25	5.485	**6066244**

Straight connector for straight connection of cable trays, according to the marine standard, and fittings with a side height of 15 mm.



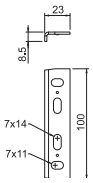


Alu

Screw connector 15

Type		Pack Piece	Weight kg/100 pc.	Item no.
MKR SV ALU		25	2.910	**6066248**

Straight connector for straight connection of cable trays, according to the marine standard, and fittings with a side height of 15 mm.





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Cable trays, side height 35

Cable tray RKS-Magic® 35

St FS

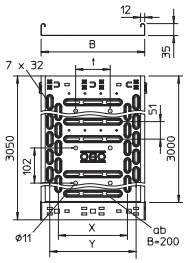


Type	Width mm	Metal thick-ness mm	Weight kg/100 m	Item no.
RKSM 310 FS	100	0.75	104.328	**6047417**
RKSM 320 FS	200	0.75	155.738	**6047433**
RKSM 330 FS	300	0.75	209.840	**6047460**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

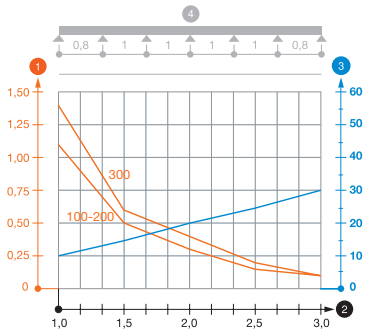
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. t mm	Dim. x mm	Dim-en-sion y mm
RKSM 310 FS	3050	100	33	–	–	50
RKSM 320 FS	3050	200	68	–	100	150
RKSM 330 FS	3050	300	103	100	200	250

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKSM 310 FS	1.1	0.5	0.3	0.15
RKSM 320 FS	1.1	0.5	0.3	0.15
RKSM 330 FS	1.4	0.6	0.4	0.2

Load



Load diagram, cable tray, type RKSM 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

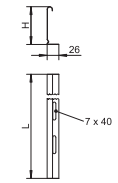
— Strut bend curve according to support width

St FS DD

Separating retainer 30

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314

Separating retainer for separation of cables of different voltages or functions.



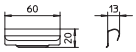


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



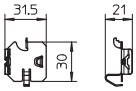


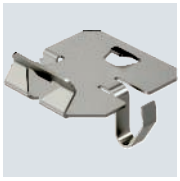
VA 2B

Hold-down clamp for separating retainer fastening in RKSM

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KR A2	30	0.537	6062280

Hold-down clamp for screwless fastening of separating retainers in the cable tray types RKSM, MKS and SKS.



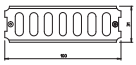


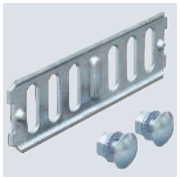
St FS FT

Straight connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 35 FS	35	10	5.100	6067085
RLVK 35 FT	35	10	5.100	6067301

Straight connector for connections of cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.





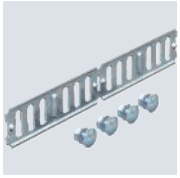
St FS FT

Straight and angle connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 35 FS	35	10	10.500	6067107
RWVL 35 FT	35	10	10.500	6067328

Straight and angle connector for cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.





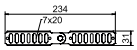
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Cable trays, side height 35

Adjustable connector 35

St FS





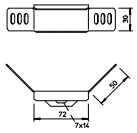
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 35 FS	35	10	11.000	**7082002**

Adjustable connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

Angle connector 35

St FS





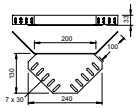
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 35 FS	35	5	6.800	**6043038**

Angle connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

Corner connector 35

St FS





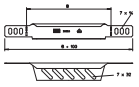
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 35 FS	35	10	39.000	**6067956**

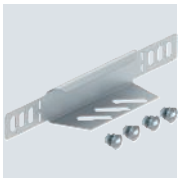
Corner connector for cable trays with side height 35 mm.
Fastening materials should be ordered separately.

St FS

Reducer/stop-end 35

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 310 FS	35	100	1	7.917	**7108109**
RWEB 320 FS	35	200	1	12.300	**7108206**
RWEB 330 FS	35	300	1	18.300	**7108311**
RWEB 305 FS	35	50	1	4.200	**7108052**



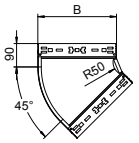


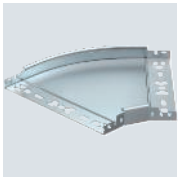
Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

St FS

45° Magic bend 35

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 310 FS	35	100	1	40.800	**6041000**
RBM 45 320 FS	35	200	1	74.500	**6041002**
RBM 45 330 FS	35	300	1	114.600	**6041004**



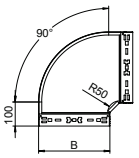


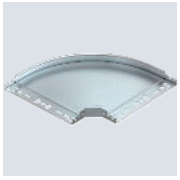
45° bend with quick connector system. For all cable tray types of 35 mm side height.

St FS

90° Magic bend 35

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 310 FS	35	100	1	53.700	**6041010**
RBM 90 320 FS	35	200	1	106.200	**6041012**
RBM 90 330 FS	35	300	1	173.000	**6041014**



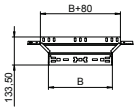


90° bend with quick connector system. For all cable tray types of 35 mm side height.

St FS

Magic 35 add-on tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 310 FS	35	100	1	30.700	**6041020**
RAAM 320 FS	35	200	1	43.400	**6041022**
RAAM 330 FS	35	300	1	56.300	**6041024**



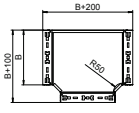


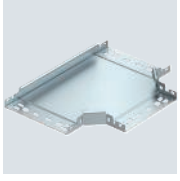
Add-on tee with quick connector system. For all cable tray types of 35 mm side height.

St FS

Magic 35 tee

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RTM 310 FS	35	100	1	69.400	**6041030**
RTM 320 FS	35	200	1	134.000	**6041032**
RTM 330 FS	35	300	1	216.600	**6041034**





T branch piece with quick connector system. For all cable tray types of 35 mm side height.

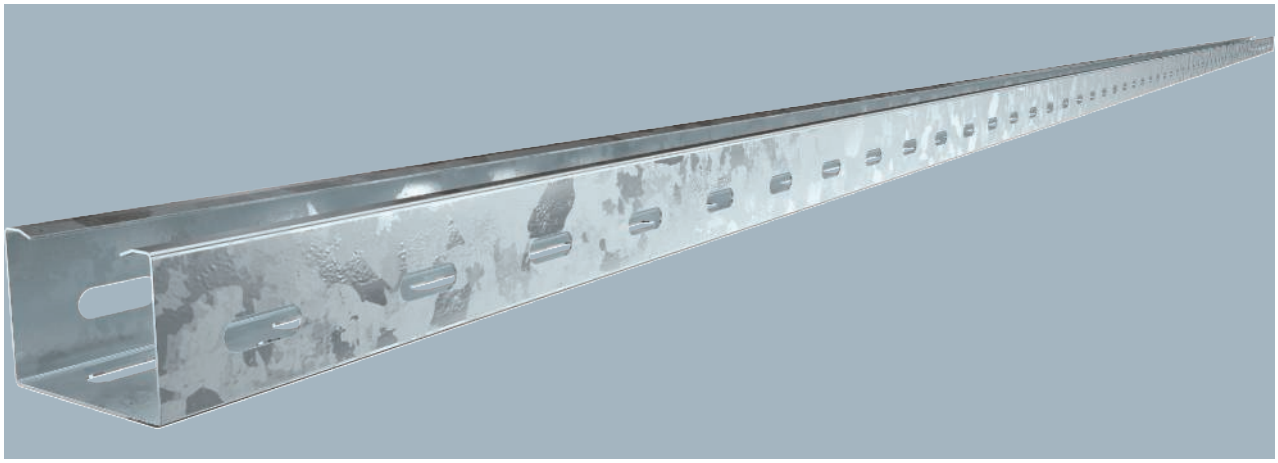
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Always indicate the item number when ordering.

Cable trays, side height 35

Cable tray RKS 35

St FT

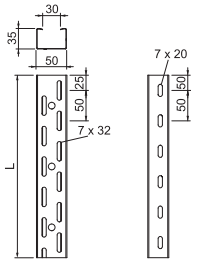


Type	Side height mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
RKS 305 FT	35	0.75		3	79.334	**6047412**

RKS 35 = Rational cable tray system with 35 mm side height.
Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

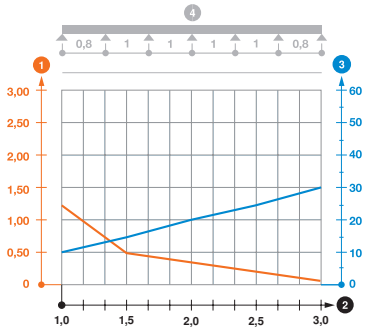
Type	Dim. L mm	Width mm	Usable cross-section cm²
RKS 305 FT	3000	50	16

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKS 305 FT	1.2	0.5	0.3	0.1

Load



Load diagram, cable tray, type RKS 35

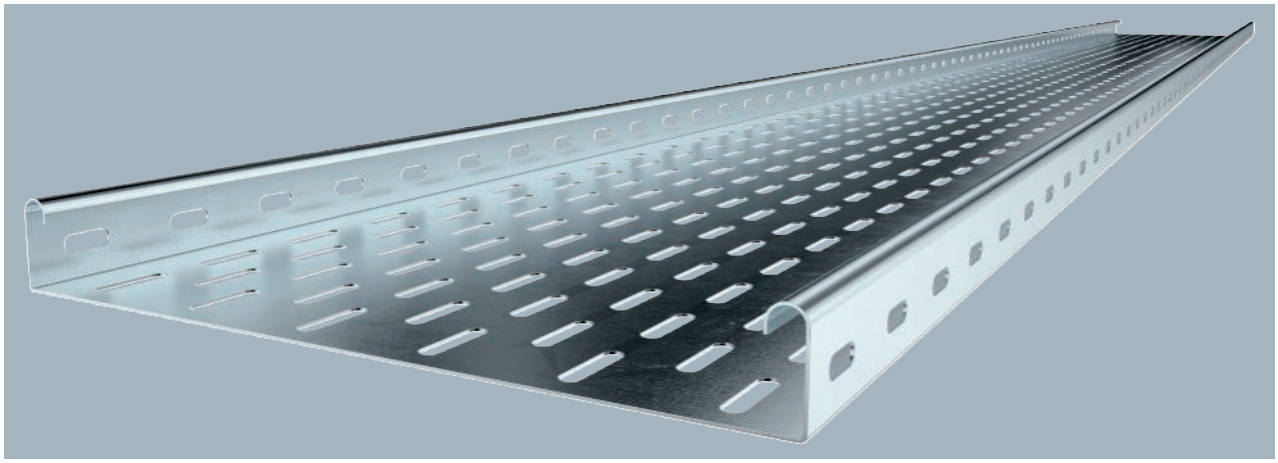
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable tray MKS 35

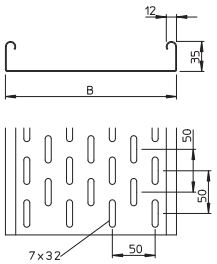


MKS 35 = Medium duty cable tray system with a side height of 35 mm.

FS version includes RV 35 straight connector set.

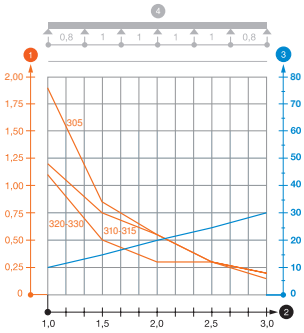
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKS 310 FS	100	1.00	3	144.134	**6053548**
MKS 315 FS	150	1.00	3	177.067	**6053572**
MKS 320 FS	200	1.00	3	210.034	**6053599**
MKS 330 FS	300	1.00	3	276.000	**6053637**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 310 FS	3000	100	33
MKS 315 FS	3000	150	50.5
MKS 320 FS	3000	200	68
MKS 330 FS	3000	300	103

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 310 FS	1.2	0.75	0.55	0.3
MKS 315 FS	1.2	0.75	0.55	0.3
MKS 320 FS	1.1	0.5	0.3	0.3
MKS 330 FS	1.1	0.5	0.3	0.3

Load diagram, cable tray, type MKS 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

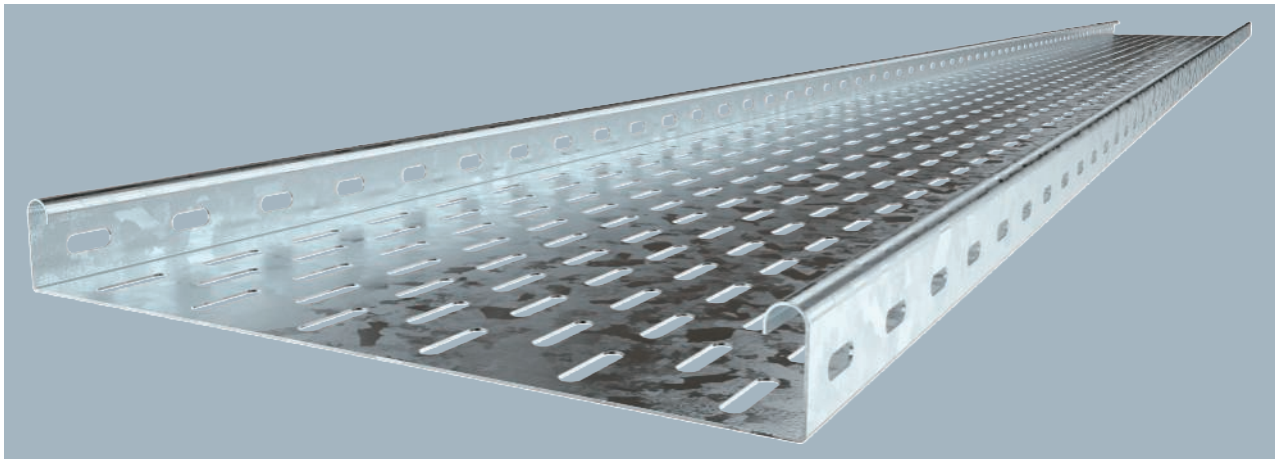
Always indicate the item number when ordering.

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Cable trays, side height 35

Cable tray MKS 35

St FT

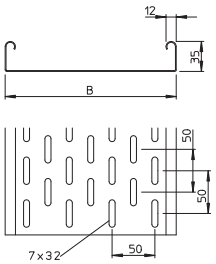


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKS 310 FT	100	1.00	3	153.000	**6053106**
MKS 315 FT	150	1.00	3	188.734	**6053165**
MKS 320 FT	200	1.00	3	225.834	**6053203**
MKS 330 FT	300	1.00	3	295.000	**6053300**

MKS 35 = Medium duty cable tray system with a side height of 35 mm.

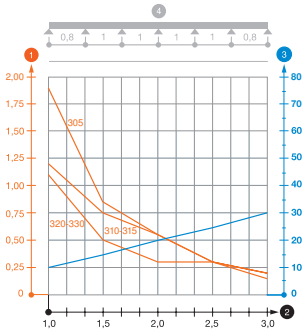
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 310 FT	3000	100	33
MKS 315 FT	3000	150	50.5
MKS 320 FT	3000	200	68
MKS 330 FT	3000	300	103

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 310 FT	1.2	0.75	0.55	0.3
MKS 315 FT	1.2	0.75	0.55	0.3
MKS 320 FT	1.1	0.5	0.3	0.3
MKS 330 FT	1.1	0.5	0.3	0.3

Load



Load diagram, cable tray, type MKS 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

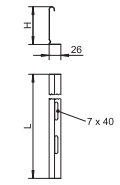
— Strut bend curve according to support width

St FS DD

Separating retainer 30

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 30 FS	30	0.75	3000	3	38.000	6062050
TSG 30 DD	30	0.75	3000	3	38.000	6062314

Separating retainer for separation of cables of different voltages or functions.



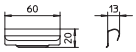


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



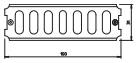


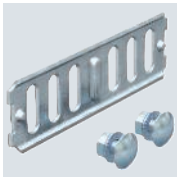
St FS FT

Straight connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 35 FS	35	10	5.100	6067085
RLVK 35 FT	35	10	5.100	6067301

Straight connector for connections of cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.



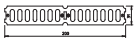


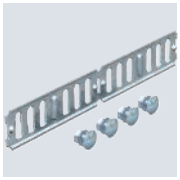
St FS FT

Straight and angle connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 35 FS	35	10	10.500	6067107
RWVL 35 FT	35	10	10.500	6067328

Straight and angle connector for cable trays and fittings with a side height of 35 mm.
Including appropriate fastening material.



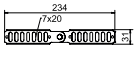


St FS FT

Adjustable connector 35

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 35 FS	35	10	11.000	7082002
RGV 35 FT	35	10	11.000	7082126

Adjustable connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.





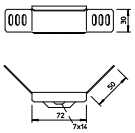
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Cable trays, side height 35

Angle connector 35

St FS





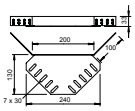
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 35 FS	35	5	6.800	**6043038**

Angle connector for cable trays with a side height of 35 mm.
Including appropriate fastening material.

Corner connector 35

St FS



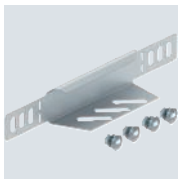


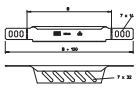
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 35 FS	35	10	39.000	**6067956**

Corner connector for cable trays with side height 35 mm.
Fastening materials should be ordered separately.

Reducer/stop-end 35

St FS



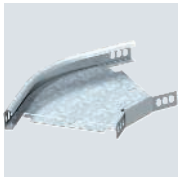


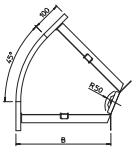
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 310 FS	35	100	1	7.917	**7108109**
RWEB 320 FS	35	200	1	12.300	**7108206**
RWEB 330 FS	35	300	1	18.300	**7108311**
RWEB 305 FS	35	50	1	4.200	**7108052**

Reducer/stop-end for cable trays with side height 35 mm.
From a width of 150 mm, a perforated bottom flange is available.
Including appropriate fastening material.

45° bend 35

St FS



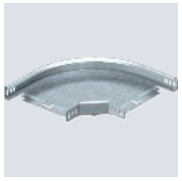


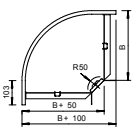
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 310 FS	35	100	1	40.000	**6043704**
RB 45 320 FS	35	200	1	60.000	**6043712**
RB 45 330 FS	35	300	1	90.000	**6043720**

45° bend, horizontal, for all cable tray types of 35 mm side height.
The WKV 35 angle connector is designed for 90° bends and can be adjusted to 45° on site. The fitting is shipped in an unmounted state.
Including appropriate fastening material.

90° bend 35

St FS





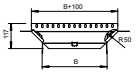
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 310 FS	35	100	1	31.100	**6043119**
RB 90 315 FS	35	150	1	65.000	**6043123**
RB 90 320 FS	35	200	1	64.300	**6043127**
RB 90 330 FS	35	300	1	112.300	**6043135**

90° bend, horizontal, for all cable tray types of 35 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

Add-on tee 35

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 310 FS	35	100	1	30.000	**6040322**
RAA 320 FS	35	200	1	35.000	**6040349**
RAA 330 FS	35	300	1	50.000	**6040357**
RAA 310 FT	35	100	1	33.000	**7120117**
RAA 320 FT	35	200	1	38.000	**7120214**
RAA 330 FT	35	300	1	55.000	**7120311**



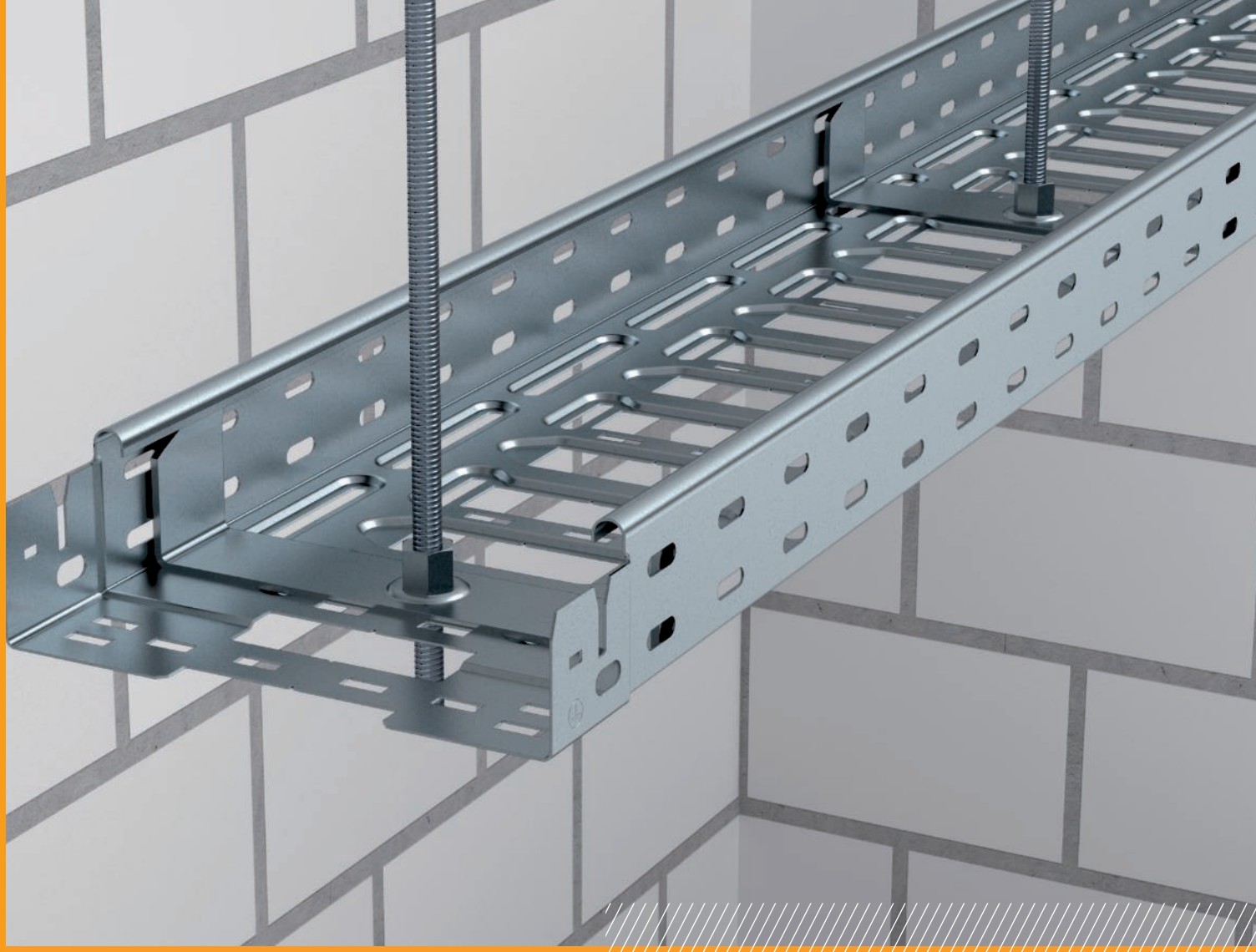


Add-on tee for horizontal and vertical use. For all cable tray types of 35 mm side height.

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

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Always indicate the item number when ordering.



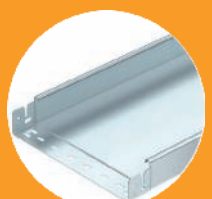
MKS-Magic® cable tray system

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task.

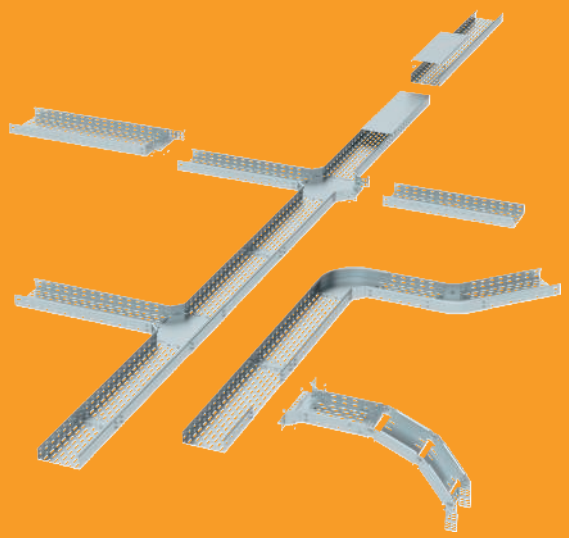
- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm



MKS-Magic® cable tray

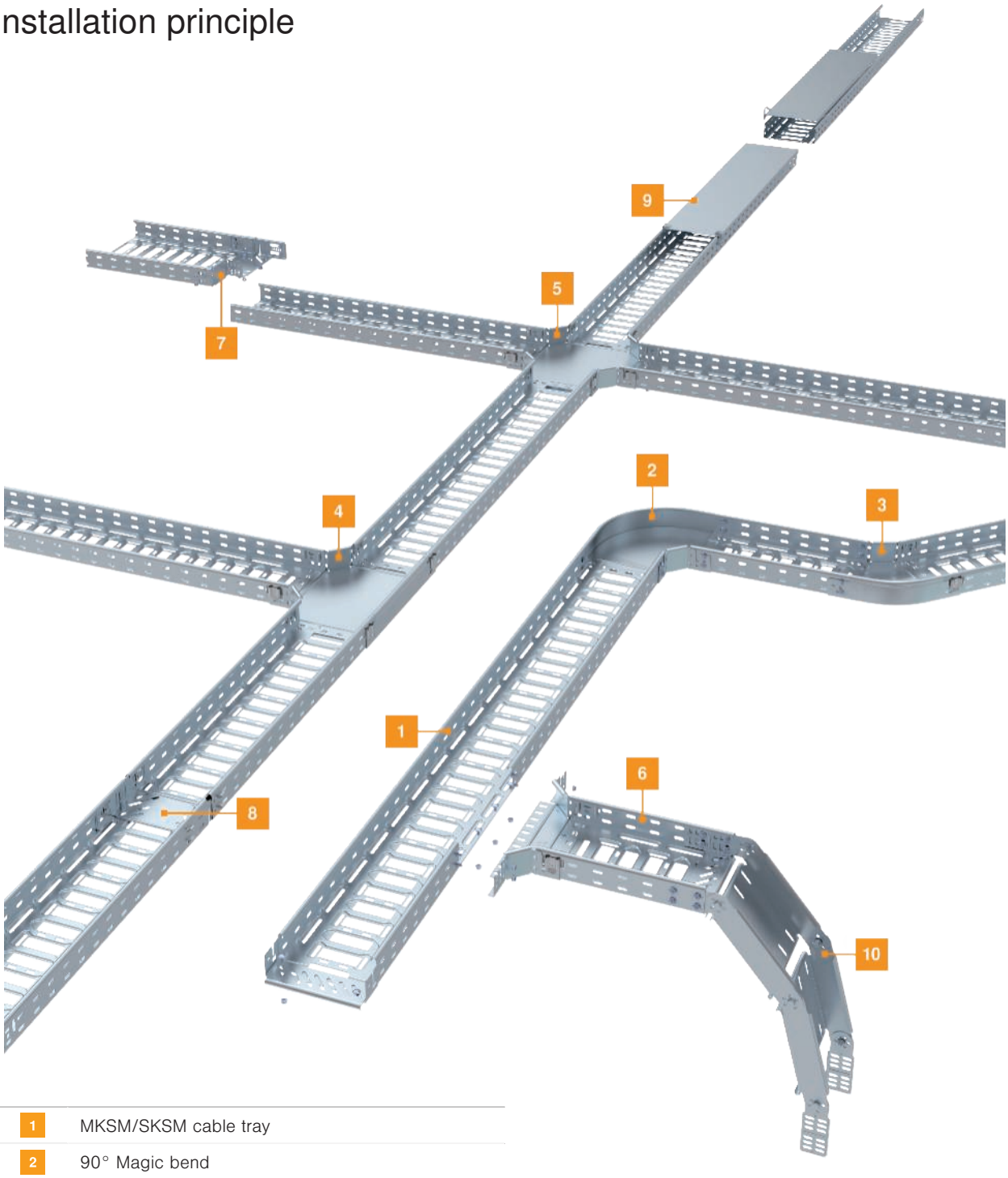


MKS-Magic® cable tray unperforated



MKS-Magic® cable tray system

Installation principle



1	MKSM/SKSM cable tray
2	90° Magic bend
3	45° Magic bend
4	Magic T branch piece
5	Magic horizontal cross-over
6	Magic add-on tee
7	Reducer/stop-end
8	Magic straight connector set
9	Cover with turn buckle
10	Adjustable bend element

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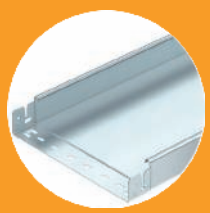
SKS-Magic® cable tray system

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task.

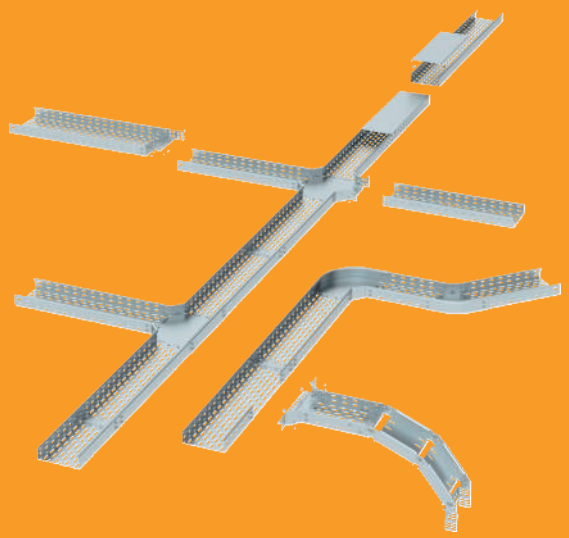
- Snap-in fittings with screwless Magic connection
- Side height 60, 85 and 110 mm



Cable tray SKS-Magic®

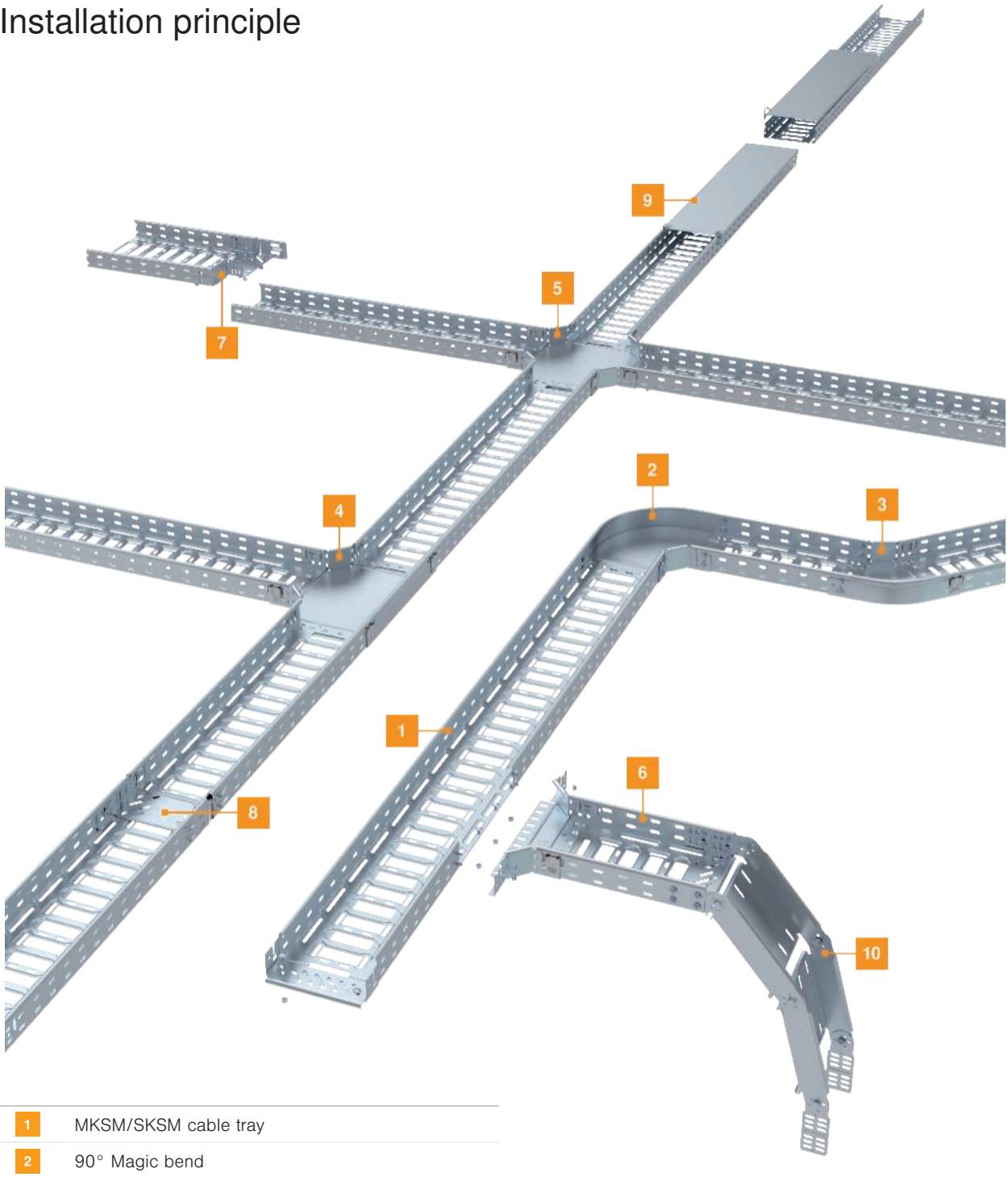


Cable tray SKS-Magic® unperforated



SKS-Magic® cable tray system

Installation principle



1	MKSM/SKSM cable tray
2	90° Magic bend
3	45° Magic bend
4	Magic T branch piece
5	Magic horizontal cross-over
6	Magic add-on tee
7	Reducer/stop-end
8	Magic straight connector set
9	Cover with turn buckle
10	Adjustable bend element

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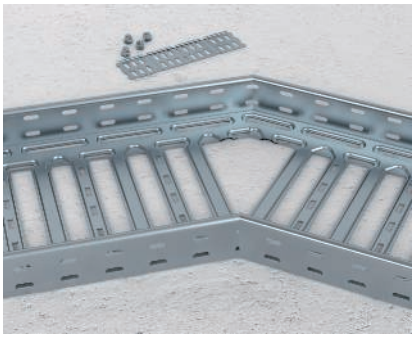
Mounting aid



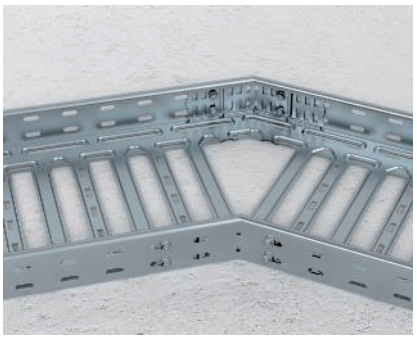
Mounting of Magic KTSMV straight connector set
Simply clamp the two side sections of the connector set in the side rail.



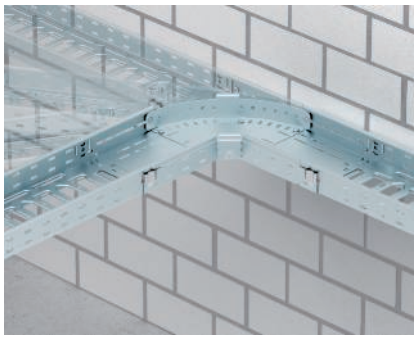
Mounting of Magic KTSMV straight connector set
Insert the corresponding joint plate, push it down and simply lock it in place. To strengthen the connection, we recommend screwing on the joint plate for widths of more than 400 mm.



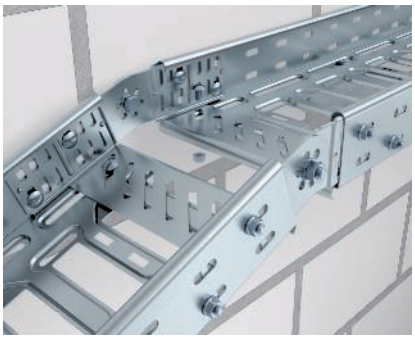
Change of direction by cutting the cable tray
Cut and bend the cable tray, then fix the cut rail with an angle connector, type RWVL.



Change of direction with separate cable trays
Combine the cut trays and fix them from the inside at the joint using angle connectors, type RWVL.



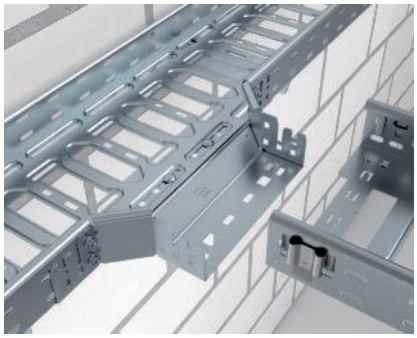
Creating a change of direction with the variable Magic bend
The variable Magic bend, type RBMV..., can be used to install infinitely variable direction changes of 0°– 90° to the route.



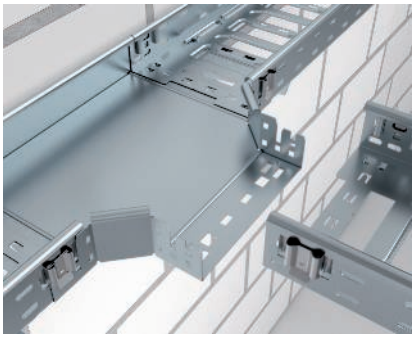
Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



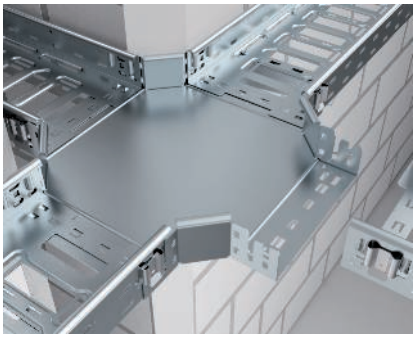
Mounting of Magic bend
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic mounting/branch piece
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic T branch piece
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



Mounting of Magic intersection
Mounting of fittings by simple interconnection. For this, the cable tray with the spring side is locked into the fitting connection from above.



90° bend (rising/falling)
90° bend, rising or falling, for the creation of simple vertical changes of direction.



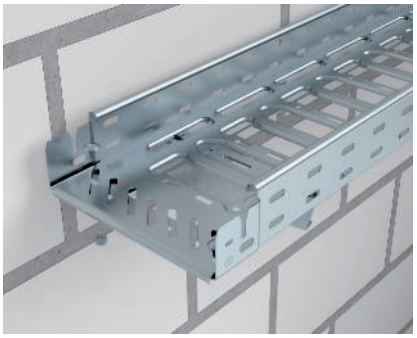
Installation of adjustable vertical bend element
Mounting of the adjustable vertical bend element for the creation of adjustable bends. The adjustable vertical bend element is connected to the cable tray using adjustable connectors.



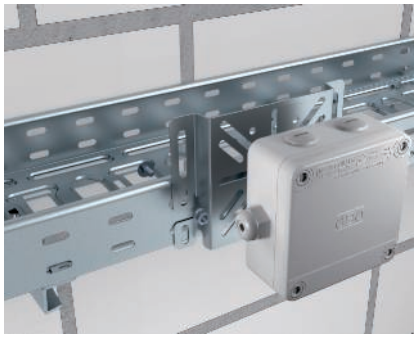
Installation of rising adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



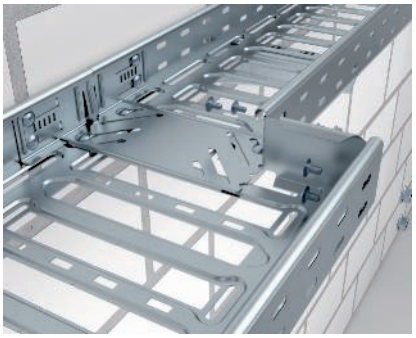
Screwless cover mounting
Unperforated covers are mounted using cover clamps, type DK DRLU. The cover clamps are first clamped to the cover edge and then snapped on to the cable tray rail with the cover.



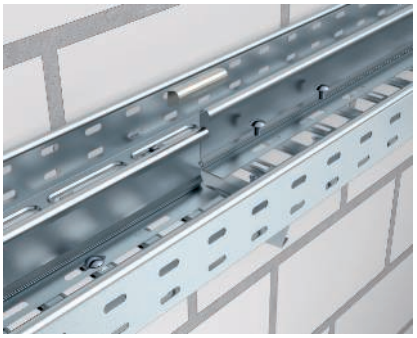
Installation of bottom end plate
Fastening of the bottom end plate, type BEB, to protect the cables.



Universal mounting plate
Fastening of the mounting plate, type MP UNI, on the cable tray.



Installation of reducer / stop-end
The reducer / stop-end plate component is used as closure and to reduce the width of cable trays.



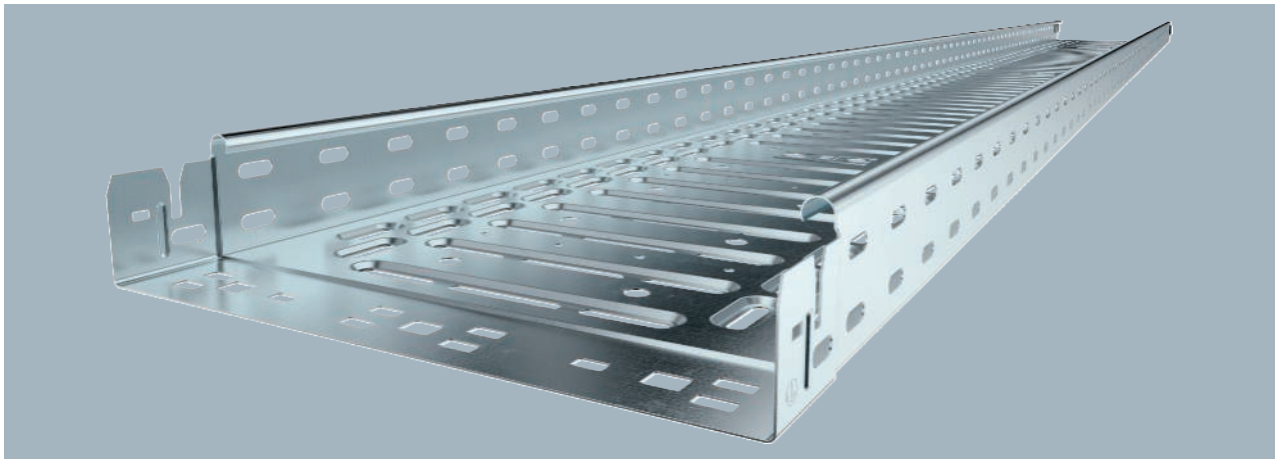
Barrier strip mounting with screw connection
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.

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Cable trays, side height 60

Cable tray RKS-Magic® 60

St FS

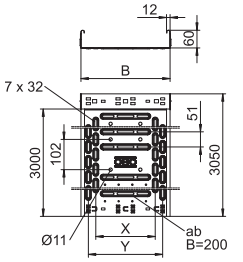


Type	Width mm	Metal thickness mm	BS		Pack m	Weight kg/100 m	Item no.
RKSM 610 FS	100	0.75			3	134.334	**6047611**
RKSM 615 FS	150	0.75			3	154.885	**6047630**
RKSM 620 FS	200	0.75			3	181.508	**6047638**
RKSM 630 FS	300	0.75			3	233.803	**6047654**
RKSM 640 FS	400	0.90			3	338.459	**6047689**
RKSM 650 FS	500	0.90			3	401.246	**6047719**
RKSM 660 FS	600	0.90			3	464.000	**6047735**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

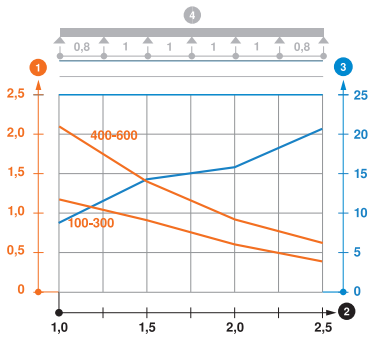
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. x mm	Dimension y mm
RKSM 610 FS	3050	100	58	–	50
RKSM 615 FS	3050	150	88	50	100
RKSM 620 FS	3050	200	118	100	150
RKSM 630 FS	3050	300	178	200	250
RKSM 640 FS	3050	400	238	300	350
RKSM 650 FS	3050	500	298	400	450
RKSM 660 FS	3050	600	358	450	550

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	NEMA load class
RKSM 610 FS	1.2	0.9	0.6	0.4	8AA
RKSM 615 FS	1.2	1	0.6	0.4	8AA
RKSM 620 FS	1.2	1	0.55	0.4	8AA
RKSM 630 FS	1.2	1	0.55	0.4	8AA
RKSM 640 FS	2.1	1.35	0.8	0.6	8AA
RKSM 650 FS	2.1	1.35	0.8	0.6	8AA
RKSM 660 FS	2.1	1.4	0.8	0.6	8AA

Load



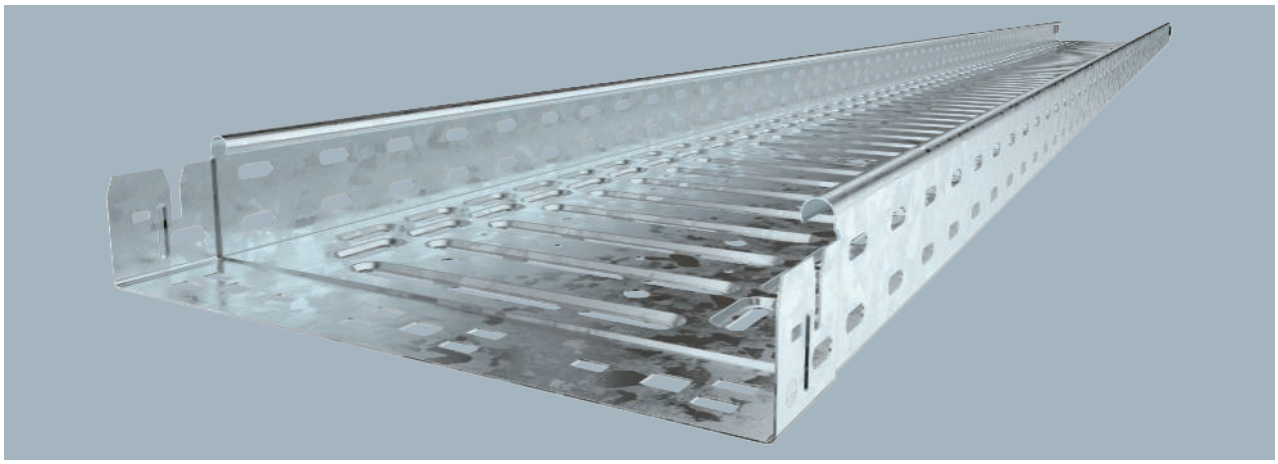
Load diagram, cable tray, type RKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

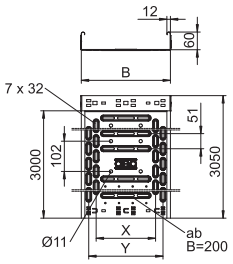
Cable tray RKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

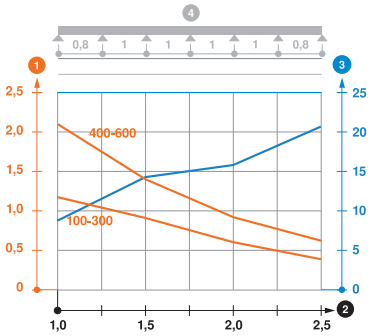
Type	Width mm	Metal thickness mm	BS		Pack m	Weight kg/100 m	Item no.
RKSM 610 FT	100	1.00			3	197.410	**6047612**
RKSM 615 FT	150	1.00			3	236.984	**6047631**
RKSM 620 FT	200	1.00			3	251.115	**6047639**
RKSM 630 FT	300	1.00			3	356.295	**6047655**
RKSM 640 FT	400	1.00			3	437.180	**6047690**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. x mm	Dimension y mm
RKSM 610 FT	3050	100	58	–	50
RKSM 615 FT	3050	150	88	50	100
RKSM 620 FT	3050	200	118	100	150
RKSM 630 FT	3050	300	178	200	250
RKSM 640 FT	3050	400	238	300	350

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	NEMA load class
RKSM 610 FT	1.2	0.9	0.6	0.4	8AA
RKSM 615 FT	1.2	0.9	0.6	0.4	8AA
RKSM 620 FT	1.2	0.9	0.6	0.4	8AA
RKSM 630 FT	1.2	0.9	0.6	0.4	8AA
RKSM 640 FT	2.1	1.35	0.9	0.6	8AA

Load diagram, cable tray, type RKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

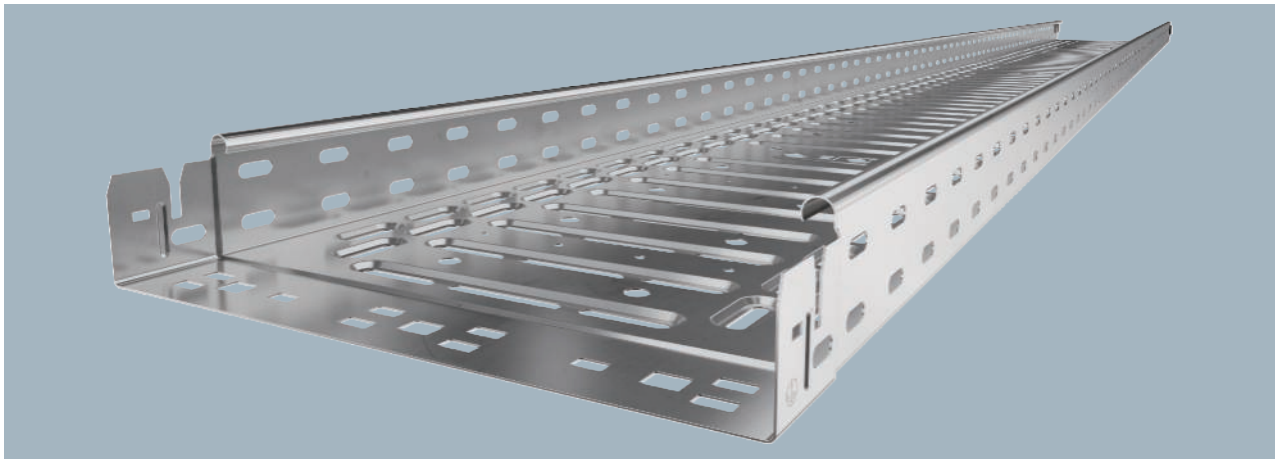
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

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Cable trays, side height 60

Cable tray RKS-Magic® 60

A2 2B

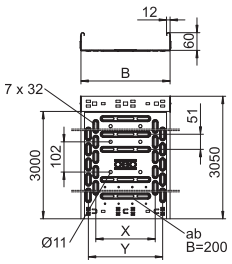


Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
RKSM 610 A2	100	0.75		3	144.590	**6047613**
RKSM 620 A2	200	0.75		3	200.984	**6047640**
RKSM 630 A2	300	0.75		3	259.344	**6047656**
RKSM 640 A2	400	0.90		3	358.361	**6047691**
RKSM 650 A2	500	0.90		3	424.590	**6047721**
RKSM 660 A2	600	0.90		3	491.148	**6047737**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
The perforation for direct threaded rod suspension has a diameter of 11 mm.

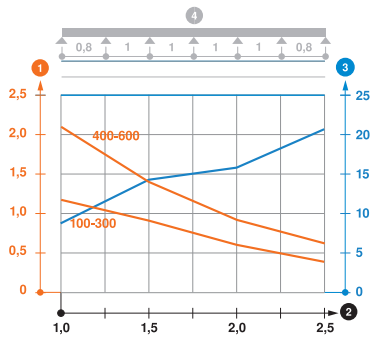
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. x mm	Dim-en-sion y mm
RKSM 610 A2	3050	100	58	–	50
RKSM 620 A2	3050	200	118	100	150
RKSM 630 A2	3050	300	178	200	250
RKSM 640 A2	3050	400	238	300	350
RKSM 650 A2	3050	500	298	400	450
RKSM 660 A2	3050	600	358	450	550

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
RKSM 610 A2	1.2	0.9	0.6	0.4
RKSM 620 A2	1.2	0.9	0.6	0.4
RKSM 630 A2	1.2	0.9	0.6	0.4
RKSM 640 A2	2.1	1.35	0.9	0.6
RKSM 650 A2	2.1	1.35	0.9	0.6
RKSM 660 A2	2.1	1.35	0.9	0.6

Load



Load diagram, cable tray, type RKSM 60

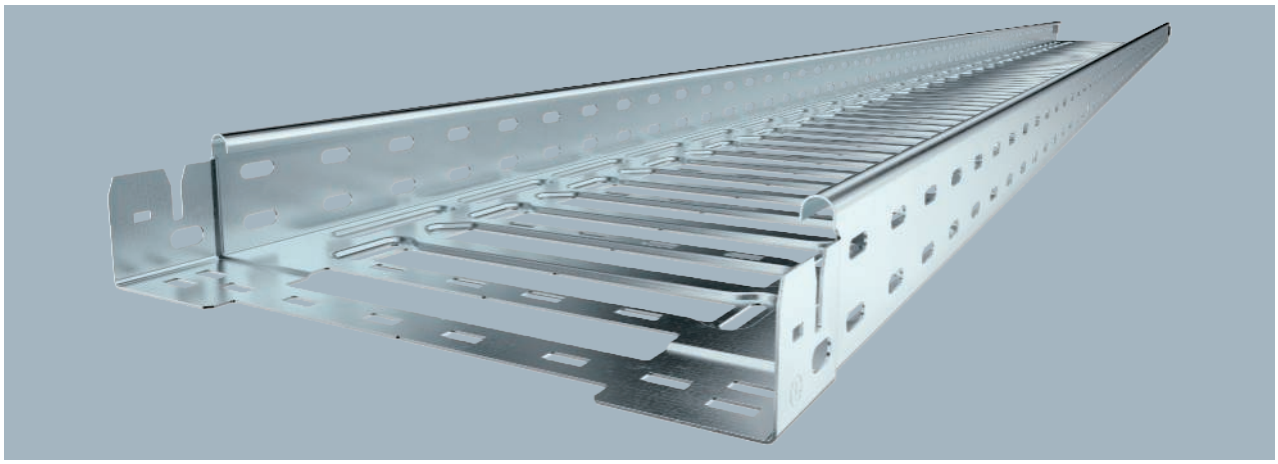
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

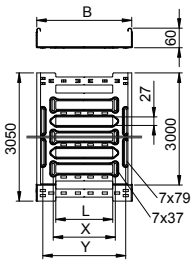
Cable tray MKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

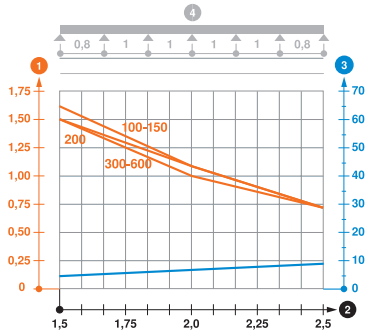
Type	Width mm	Metal thickness mm		Pack m	Weight kg/100 m	Item no.
MKSM 610 FS	100	1.00		3	166.032	**6059000**
MKSM 615 FS	150	1.00		3	200.983	**6059002**
MKSM 620 FS	200	1.00		3	219.344	**6059004**
MKSM 630 FS	300	1.00		3	256.721	**6059006**
MKSM 640 FS	400	1.00		3	298.262	**6059008**
MKSM 650 FS	500	1.00		3	331.475	**6059010**
MKSM 660 FS	600	1.00		3	368.852	**6059012**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
MKSM 610 FS	3050	100	58	30	–	62
MKSM 615 FS	3050	150	88	30	46	112
MKSM 620 FS	3050	200	118	80	96	162
MKSM 630 FS	3050	300	178	180	196	262
MKSM 640 FS	3050	400	238	280	296	362
MKSM 650 FS	3050	500	298	380	396	462
MKSM 660 FS	3050	600	358	480	496	562

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 610 FS	1.6	1.1	0.7
MKSM 615 FS	1.6	1.1	0.7
MKSM 620 FS	1.5	1.1	0.7
MKSM 630 FS	1.5	1	0.7
MKSM 640 FS	1.5	1	0.7
MKSM 650 FS	1.5	1	0.7
MKSM 660 FS	1.5	1	0.7

Load diagram, cable tray, type MKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

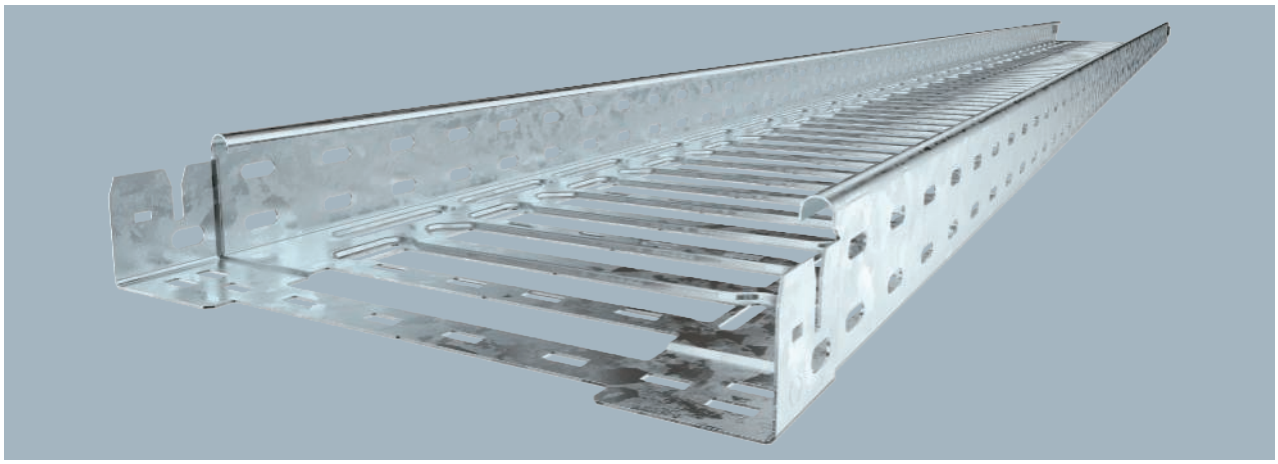
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

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Cable trays, side height 60

Cable tray MKS-Magic® 60

St FT

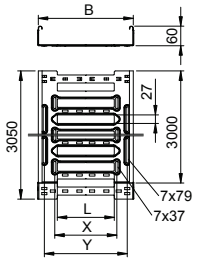


Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKSM 610 FT	100	1.00		3	182.557	**6059018**
MKSM 615 FT	150	1.00		3	219.016	**6059020**
MKSM 620 FT	200	1.00		3	239.344	**6059022**
MKSM 630 FT	300	1.00		3	280.000	**6059025**
MKSM 640 FT	400	1.00		3	327.967	**6059027**
MKSM 650 FT	500	1.00		3	361.311	**6059029**
MKSM 660 FT	600	1.00		3	402.295	**6059032**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

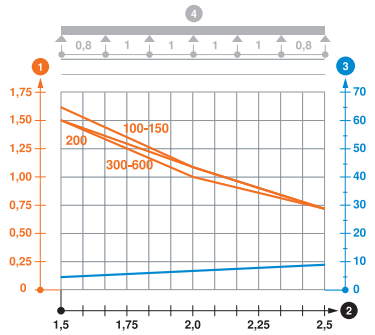
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dim-en-sion y mm
MKSM 610 FT	3050	100	58	30	–	62
MKSM 615 FT	3050	150	88	30	46	112
MKSM 620 FT	3050	200	118	80	96	162
MKSM 630 FT	3050	300	178	180	196	262
MKSM 640 FT	3050	400	238	280	296	362
MKSM 650 FT	3050	500	298	380	396	462
MKSM 660 FT	3050	600	358	480	496	562

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 610 FT	1.6	1.1	0.7
MKSM 615 FT	1.6	1.1	0.7
MKSM 620 FT	1.5	1.1	0.7
MKSM 630 FT	1.5	1	0.7
MKSM 640 FT	1.5	1	0.7
MKSM 650 FT	1.5	1	0.7
MKSM 660 FT	1.5	1	0.7

Load



Load diagram, cable tray, type MKSM 60

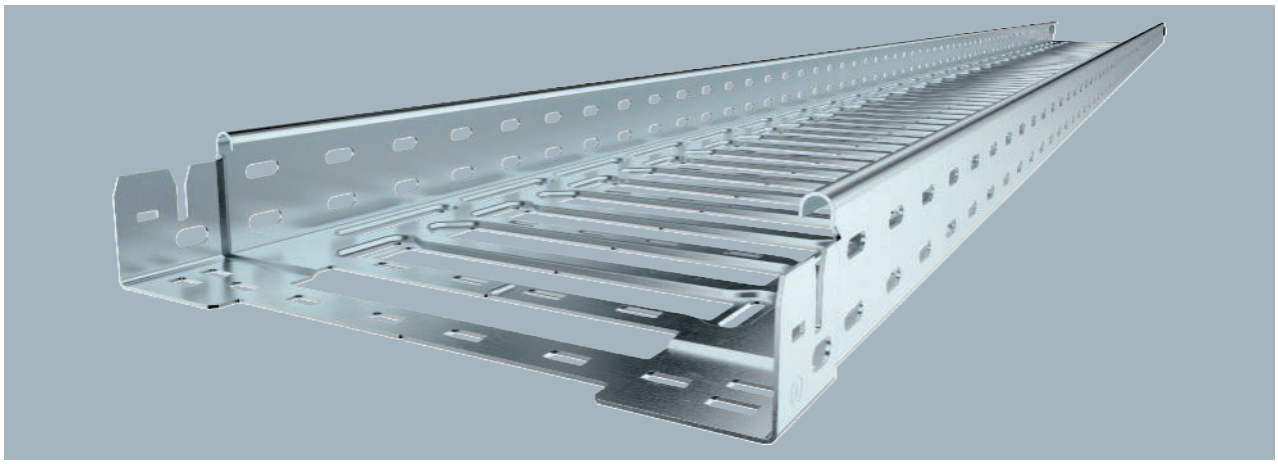
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

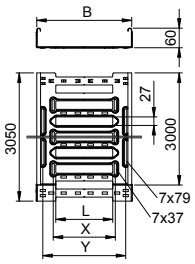
Cable tray SKS-Magic® 60



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

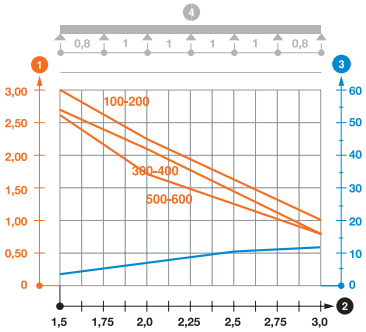
Type	Width mm	Metal thickness mm	BS		Pack m	Weight kg/100 m	Item no.
SKSM 610 FS	100	1.50			3	249.573	**6059456**
SKSM 615 FS	150	1.50			3	301.639	**6059458**
SKSM 620 FS	200	1.50			3	329.180	**6059460**
SKSM 630 FS	300	1.50			3	390.492	**6059462**
SKSM 640 FS	400	1.50			3	441.311	**6059464**
SKSM 650 FS	500	1.50			3	504.852	**6059466**
SKSM 660 FS	600	1.50			3	553.442	**6059468**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
SKSM 610 FS	3050	100	58	30	–	62
SKSM 615 FS	3050	150	88	30	46	112
SKSM 620 FS	3050	200	118	80	96	162
SKSM 630 FS	3050	300	178	180	196	262
SKSM 640 FS	3050	400	238	280	296	362
SKSM 650 FS	3050	500	298	380	396	462
SKSM 660 FS	3050	600	358	480	496	562

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 610 FS	3	2.25	1
SKSM 615 FS	3	2.25	1
SKSM 620 FS	3	2.25	1
SKSM 630 FS	2.7	2.1	0.8
SKSM 640 FS	2.7	2.1	0.8
SKSM 650 FS	2.6	1.8	0.8
SKSM 660 FS	2.6	1.8	0.8

Load diagram, cable tray, type SKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

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Cable trays, side height 60

Cable tray SKS-Magic® 60

St FT

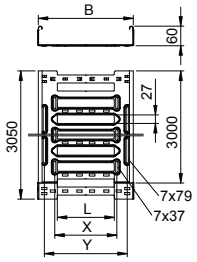


Type	Width mm	Metal thick-ness mm	BS		Pack m	Weight kg/100 m	Item no.
SKSM 610 FT	100	1.50			3	266.098	**6059473**
SKSM 615 FT	150	1.50			3	328.852	**6059475**
SKSM 620 FT	200	1.50			3	359.016	**6059477**
SKSM 630 FT	300	1.50			3	420.000	**6059479**
SKSM 640 FT	400	1.50			3	481.311	**6059481**
SKSM 650 FT	500	1.50			3	538.295	**6059483**
SKSM 660 FT	600	1.50			3	603.606	**6059485**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

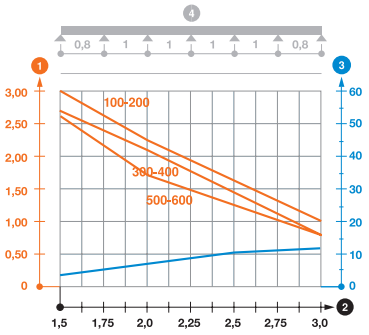
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dim-en-sion y mm
SKSM 610 FT	3050	100	58	30	–	62
SKSM 615 FT	3050	150	88	30	46	112
SKSM 620 FT	3050	200	118	80	96	162
SKSM 630 FT	3050	300	178	180	196	262
SKSM 640 FT	3050	400	238	280	296	362
SKSM 650 FT	3050	500	298	380	396	462
SKSM 660 FT	3050	600	358	480	496	562

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
SKSM 610 FT	3	2.25	1
SKSM 615 FT	3	2.25	1
SKSM 620 FT	3	2.25	1
SKSM 630 FT	2.7	2.1	0.8
SKSM 640 FT	2.7	2.1	0.8
SKSM 650 FT	2.6	1.8	0.8
SKSM 660 FT	2.6	1.8	0.8

Load



Load diagram, cable tray, type SKSM 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

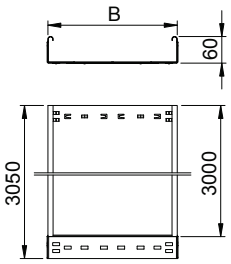
Cable tray MKS-Magic® 60, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

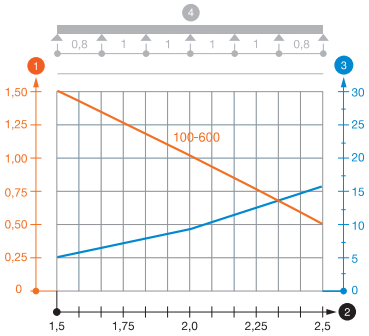
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKSMU 610 FS	100	1.00		3	191.672	**6059230**
MKSMU 615 FS	150	1.00		3	230.852	**6059232**
MKSMU 620 FS	200	1.00		3	269.836	**6059234**
MKSMU 630 FS	300	1.00		3	348.459	**6059237**
MKSMU 640 FS	400	1.00		3	426.918	**6059239**
MKSMU 650 FS	500	1.00		3	505.311	**6059241**
MKSMU 660 FS	600	1.00		3	583.737	**6059243**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 610 FS	3050	100	58
MKSMU 615 FS	3050	150	88
MKSMU 620 FS	3050	200	118
MKSMU 630 FS	3050	300	178
MKSMU 640 FS	3050	400	238
MKSMU 650 FS	3050	500	298
MKSMU 660 FS	3050	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 610 FS	1.5	1	0.5
MKSMU 615 FS	1.5	1	0.5
MKSMU 620 FS	1.5	1	0.5
MKSMU 630 FS	1.5	1	0.5
MKSMU 640 FS	1.5	1	0.5
MKSMU 650 FS	1.5	1	0.5
MKSMU 660 FS	1.5	1	0.5

Load diagram, cable tray, type MKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

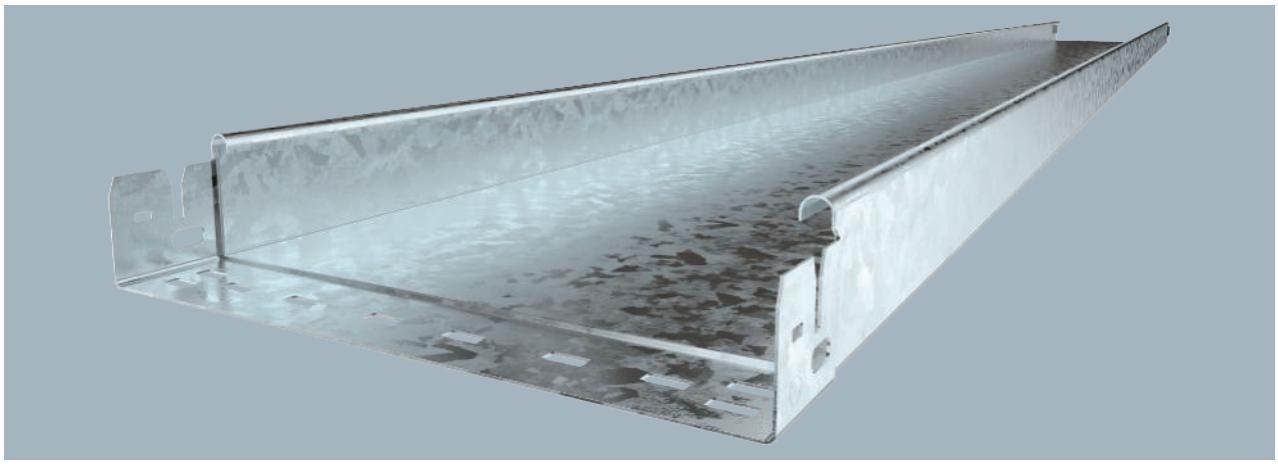
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Always indicate the item number when ordering.

Cable trays, side height 60

Cable tray MKS-Magic® 60, unperforated

St FT

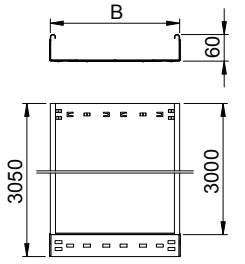


Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKSMU 610 FT	100	1.00		3	210.688	**6059248**
MKSMU 615 FT	150	1.00		3	253.770	**6059250**
MKSMU 620 FT	200	1.00		3	296.819	**6059252**
MKSMU 630 FT	300	1.00		3	383.081	**6059254**
MKSMU 640 FT	400	1.00		3	469.311	**6059256**
MKSMU 650 FT	500	1.00		3	555.508	**6059258**
MKSMU 660 FT	600	1.00		3	641.770	**6059260**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

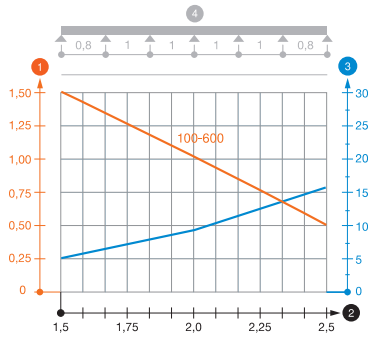
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 610 FT	3050	100	58
MKSMU 615 FT	3050	150	88
MKSMU 620 FT	3050	200	118
MKSMU 630 FT	3050	300	178
MKSMU 640 FT	3050	400	238
MKSMU 650 FT	3050	500	298
MKSMU 660 FT	3050	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 610 FT	1.5	1	0.5
MKSMU 615 FT	1.5	1	0.5
MKSMU 620 FT	1.5	1	0.5
MKSMU 630 FT	1.5	1	0.5
MKSMU 640 FT	1.5	1	0.5
MKSMU 650 FT	1.5	1	0.5
MKSMU 660 FT	1.5	1	0.5

Load



Load diagram, cable tray, type MKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

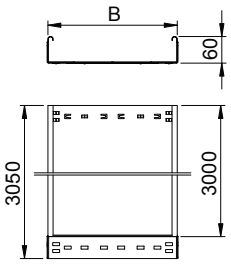
Cable tray SKS-Magic® 60, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

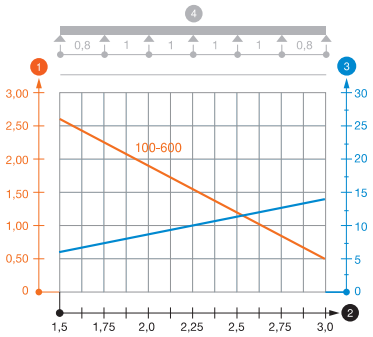
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
SKSMU 610 FS	100	1.50		3	287.245	**6059688**
SKSMU 615 FS	150	1.50		3	346.032	**6059690**
SKSMU 620 FS	200	1.50		3	404.786	**6059692**
SKSMU 630 FS	300	1.50		3	522.426	**6059694**
SKSMU 640 FS	400	1.50		3	640.065	**6059696**
SKSMU 650 FS	500	1.50		3	757.704	**6059698**
SKSMU 660 FS	600	1.50		3	875.377	**6059700**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 610 FS	3050	100	58
SKSMU 615 FS	3050	150	88
SKSMU 620 FS	3050	200	118
SKSMU 630 FS	3050	300	178
SKSMU 640 FS	3050	400	238
SKSMU 650 FS	3050	500	298
SKSMU 660 FS	3050	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 FS	2.6	1.9	1.1	0.55
SKSMU 615 FS	2.6	1.9	1.1	0.55
SKSMU 620 FS	2.6	1.9	1.1	0.55
SKSMU 630 FS	2.6	1.9	1.1	0.55
SKSMU 640 FS	2.6	1.9	1.1	0.55
SKSMU 650 FS	2.6	1.9	1.1	0.55
SKSMU 660 FS	2.6	1.9	1.1	0.55

Load diagram, cable tray, type SKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

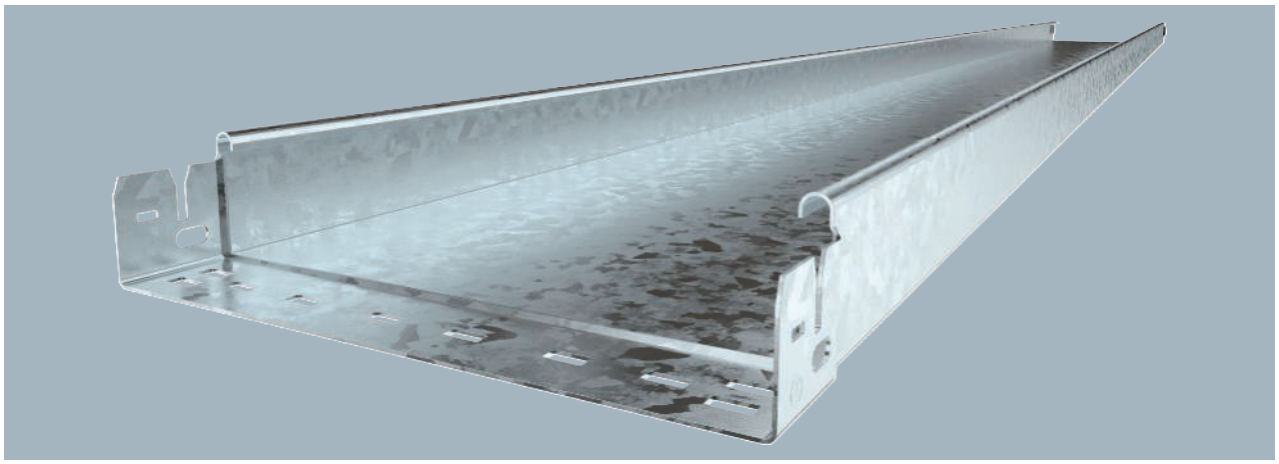
Always indicate the item number when ordering.

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Cable trays, side height 60

Cable tray SKS-Magic® 60, unperforated

St FT

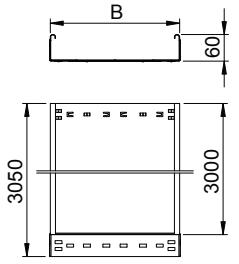


Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
SKSMU 610 FT	100	1.50		3	306.262	**6059705**
SKSMU 615 FT	150	1.50		3	368.950	**6059707**
SKSMU 620 FT	200	1.50		3	431.573	**6059709**
SKSMU 630 FT	300	1.50		3	557.049	**6059711**
SKSMU 640 FT	400	1.50		3	682.491	**6059713**
SKSMU 650 FT	500	1.50		3	807.934	**6059715**
SKSMU 660 FT	600	1.50		3	933.377	**6059717**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

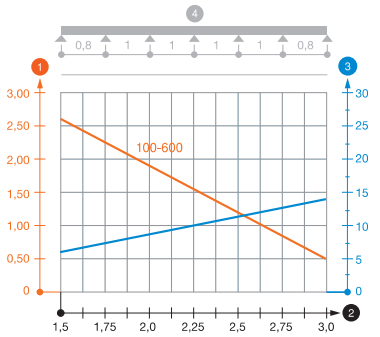
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 610 FT	3050	100	58
SKSMU 615 FT	3050	150	88
SKSMU 620 FT	3050	200	118
SKSMU 630 FT	3050	300	178
SKSMU 640 FT	3050	400	238
SKSMU 650 FT	3050	500	298
SKSMU 660 FT	3050	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 FT	2.6	1.9	1.1	0.55
SKSMU 615 FT	2.6	1.9	1.1	0.55
SKSMU 620 FT	2.6	1.9	1.1	0.55
SKSMU 630 FT	2.6	1.9	1.1	0.55
SKSMU 640 FT	2.6	1.9	1.1	0.55
SKSMU 650 FT	2.6	1.9	1.1	0.55
SKSMU 660 FT	2.6	1.9	1.1	0.55

Load



Load diagram, cable tray, type SKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

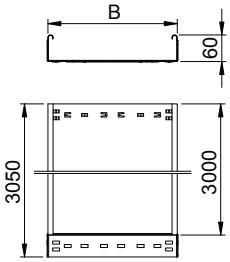
Cable tray SKS-Magic® 60, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

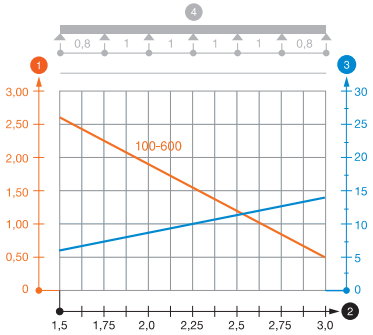
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSMU 610 A2	100	1.50	3	292.033	**6059722**
SKSMU 620 A2	200	1.50	3	411.533	**6059726**
SKSMU 630 A2	300	1.50	3	522.426	**6059728**
SKSMU 640 A2	400	1.50	3	650.733	**6059730**
SKSMU 650 A2	500	1.50	3	770.333	**6059732**
SKSMU 660 A2	600	1.50	3	889.967	**6059734**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSMU 610 A2	3050	100	58
SKSMU 620 A2	3050	200	118
SKSMU 630 A2	3050	300	178
SKSMU 640 A2	3050	400	238
SKSMU 650 A2	3050	500	298
SKSMU 660 A2	3050	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSMU 610 A2	2.6	1.9	1.1	0.55
SKSMU 620 A2	2.6	1.9	1.1	0.55
SKSMU 630 A2	2.6	1.9	1.1	0.55
SKSMU 640 A2	2.6	1.9	1.1	0.55
SKSMU 650 A2	2.6	1.9	1.1	0.55
SKSMU 660 A2	2.6	1.9	1.1	0.55

Load diagram, cable tray, type SKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

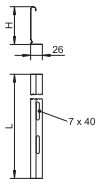
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Cable trays, side height 60

Separating retainer 45

St FS DD





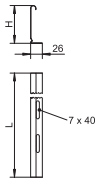
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 FS	45	0.75	3000	3	46.700	**6062033**
TSG 45 DD	45	0.75	3000	3	46.812	**6062321**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 45

A2 2B





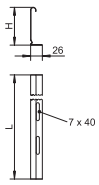
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	49.850	**6062025**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 60

St FS DD





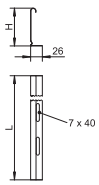
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 FS	60	0.75	3000	3	55.700	**6062068**
TSG 60 DD	60	0.75	3000	3	55.700	**6062327**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 60

A2 2B





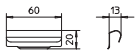
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 A2	60	0.75	3000	3	59.265	**6062084**

Separating retainer for the separation of cables of different voltages or functions.

Separating retainer connector

VA 2B





Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

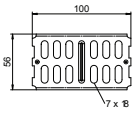
Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

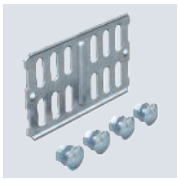
St FS FT

Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 FS	60	10	9.976	**6067093**
RLVK 60 FT	60	10	10.300	**6067603**

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.



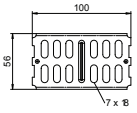


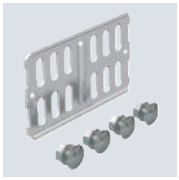
A2 2B

Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 A2	60	10	9.780	**6067654**

Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.



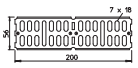


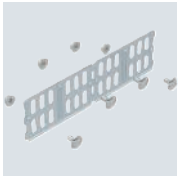
St FS FT

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 FS	60	10	16.400	**6067115**
RWVL 60 FT	60	10	17.400	**6067611**

Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.



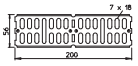


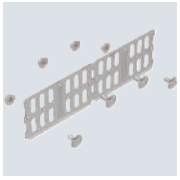
A2 2B

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 A2	60	10	16.200	**6067662**

Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.



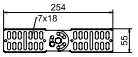


St FS FT

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 FS	60	10	25.100	**7082010**
RGV 60 FT	60	10	23.890	**7082223**

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.





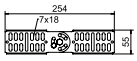
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Cable trays, side height 60

Adjustable connector 60

A2 2B





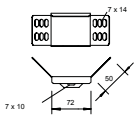
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 A2	60	10	25.100	**7082258**

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Angle connector 60

St FS FT



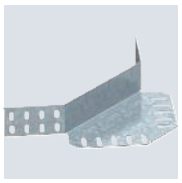


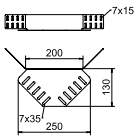
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 60 FS	60	5	14.700	**6043062**
WKV 60 FT	60	5	15.800	**6042910**

Angle connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Corner connector 60

St FS DD





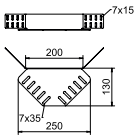
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 FS	60	10	32.000	**6067972**
REV 60 DD	60	1	32.000	**6069410**

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

Corner connector 60

A2 2B





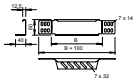
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 A2	60	5	32.000	**6068022**

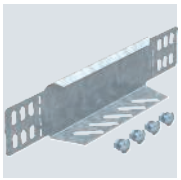
Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

St FS DD

Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 FS	60	100	1	12.300	7109105
RWEB 615 FS	60	150	1	17.600	7109156
RWEB 620 FS	60	200	1	22.800	7109202
RWEB 630 FS	60	300	1	30.700	7109296
RWEB 640 FS	60	400	1	39.600	7109407
RWEB 650 FS	60	500	1	47.500	7109504
RWEB 660 FS	60	600	1	55.500	7109601
RWEB 610 DD	60	100	1	12.300	7106106
RWEB 615 DD	60	150	1	17.900	7106110
RWEB 620 DD	60	200	1	22.600	7106114
RWEB 630 DD	60	300	1	30.700	7106118
RWEB 640 DD	60	400	1	39.600	7106122
RWEB 650 DD	60	500	1	47.500	7106126
RWEB 660 DD	60	600	1	55.500	7106130



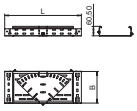


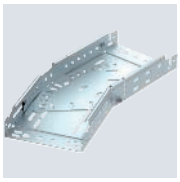
Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

St FS

Magic 60 bend, variable

Type	Side height mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
RBMV 630 FS	60	300	640	1	291.700	6040486
RBMV 640 FS	60	400	820	1	578.000	6040488



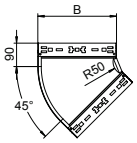


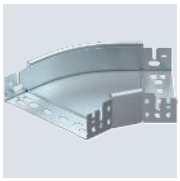
Magic bend 0°–90°, variable, with quick connector system. For all cable tray types of 60 mm side height.

St FS FT

45° Magic bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 45 610 FS	60	100	1	50.400	6041040
RBM 45 615 FS	60	150	1	67.300	6041042
RBM 45 620 FS	60	200	1	85.500	6041044
RBM 45 630 FS	60	300	1	127.700	6041046
RBM 45 640 FS	60	400	1	174.800	6041048
RBM 45 650 FS	60	500	1	232.700	6041050
RBM 45 660 FS	60	600	1	298.300	6041052
RBM 45 610 FT	60	100	1	54.000	6041060
RBM 45 615 FT	60	150	1	72.200	6041062
RBM 45 620 FT	60	200	1	92.400	6041064
RBM 45 630 FT	60	300	1	137.800	6041066
RBM 45 640 FT	60	400	1	189.100	6041068
RBM 45 650 FT	60	500	1	249.500	6041070
RBM 45 660 FT	60	600	1	319.900	6041072





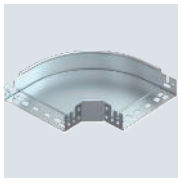
45° bend with quick connector system. For all cable tray types of 60 mm side height.

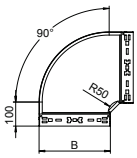
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Cable trays, side height 60

90° Magic bend 60

St FS FT



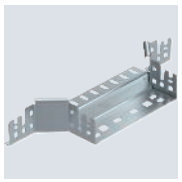


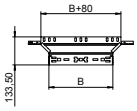
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 610 FS	60	100	1	65.700	**6041130**
RBM 90 615 FS	60	150	1	91.900	**6041132**
RBM 90 620 FS	60	200	1	121.900	**6041134**
RBM 90 630 FS	60	300	1	192.200	**6041136**
RBM 90 640 FS	60	400	1	274.700	**6041138**
RBM 90 650 FS	60	500	1	376.300	**6041140**
RBM 90 660 FS	60	600	1	487.000	**6041142**
RBM 90 610 FT	60	100	1	70.700	**6041150**
RBM 90 615 FT	60	150	1	99.300	**6041152**
RBM 90 620 FT	60	200	1	131.300	**6041154**
RBM 90 630 FT	60	300	1	207.500	**6041156**
RBM 90 640 FT	60	400	1	296.300	**6041158**
RBM 90 650 FT	60	500	1	406.300	**6041160**
RBM 90 660 FT	60	600	1	532.300	**6041162**

90° bend with quick connector system. For all cable tray types of 60 mm side height.

Add-on tee 60

St FS FT



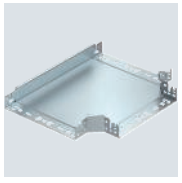


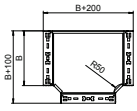
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAAM 610 FS	60	100	1	37.700	**6041230**
RAAM 615 FS	60	150	1	42.046	**6041232**
RAAM 620 FS	60	200	1	50.100	**6041234**
RAAM 630 FS	60	300	1	60.940	**6041236**
RAAM 640 FS	60	400	1	75.700	**6041238**
RAAM 650 FS	60	500	1	89.300	**6041240**
RAAM 660 FS	60	600	1	102.700	**6041242**
RAAM 610 FT	60	100	1	40.800	**6041250**
RAAM 615 FT	60	150	1	47.500	**6041252**
RAAM 620 FT	60	200	1	54.200	**6041254**
RAAM 630 FT	60	300	1	68.000	**6041257**
RAAM 640 FT	60	400	1	81.800	**6041259**
RAAM 650 FT	60	500	1	105.400	**6041261**
RAAM 660 FT	60	600	1	110.100	**6041263**

Magic add-on tee with quick connector system. For all cable tray types of 60 mm side height.

Magic 60 T branch piece

St FS FT





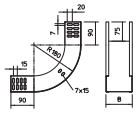
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RTM 610 FS	60	100	1	83.600	**6041320**
RTM 615 FS	60	150	1	114.700	**6041322**
RTM 620 FS	60	200	1	150.600	**6041324**
RTM 630 FS	60	300	1	228.420	**6041326**
RTM 640 FS	60	400	1	335.600	**6041328**
RTM 650 FS	60	500	1	458.500	**6041330**
RTM 660 FS	60	600	1	605.000	**6041332**
RTM 610 FT	60	100	1	89.600	**6041340**
RTM 615 FT	60	150	1	123.000	**6041342**
RTM 620 FT	60	200	1	161.500	**6041344**
RTM 630 FT	60	300	1	253.300	**6041348**
RTM 640 FT	60	400	1	359.900	**6041350**
RTM 650 FT	60	500	1	495.100	**6041352**
RTM 660 FT	60	600	1	648.800	**6041354**

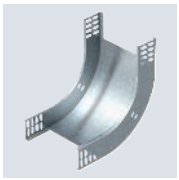
Tee branch piece with quick connector system. For all cable tray types of 60 mm side height.

St FS FT

90° vertical bend, rising 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 S FS	60	100	1	66.000	**7007005**
RBV 615 S FS	60	150	1	78.000	**7007009**
RBV 620 S FS	60	200	1	95.000	**7007013**
RBV 630 S FS	60	300	1	124.000	**7007017**
RBV 640 S FS	60	400	1	153.000	**7007021**
RBV 650 S FS	60	500	1	181.000	**7007025**
RBV 660 S FS	60	600	1	210.000	**7007029**
RBV 610 S FT	60	100	1	71.000	**7007006**
RBV 615 S FT	60	150	1	84.000	**7007010**
RBV 620 S FT	60	200	1	103.000	**7007014**
RBV 630 S FT	60	300	1	134.000	**7007018**
RBV 640 S FT	60	400	1	163.000	**7007022**
RBV 650 S FT	60	500	1	190.000	**7007026**
RBV 660 S FT	60	600	1	221.000	**7007030**



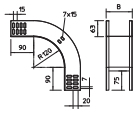


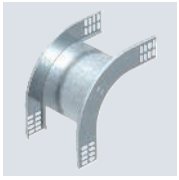
90° rising vertical bend, for all cable tray types of 60 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

St FS FT

90° vertical bend, falling 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RBV 610 F FS	60	100	1	61.000	**7007055**
RBV 615 F FS	60	150	1	73.000	**7007059**
RBV 620 F FS	60	200	1	84.000	**7007063**
RBV 630 F FS	60	300	1	107.000	**7007067**
RBV 640 F FS	60	400	1	130.000	**7007071**
RBV 650 F FS	60	500	1	153.000	**7007075**
RBV 660 F FS	60	600	1	176.000	**7007079**
RBV 610 F FT	60	100	1	66.000	**7007056**
RBV 615 F FT	60	150	1	80.000	**7007060**
RBV 620 F FT	60	200	1	92.000	**7007064**
RBV 630 F FT	60	300	1	116.000	**7007068**
RBV 640 F FT	60	400	1	142.000	**7007072**
RBV 650 F FT	60	500	1	167.000	**7007076**
RBV 660 F FT	60	600	1	192.000	**7007080**





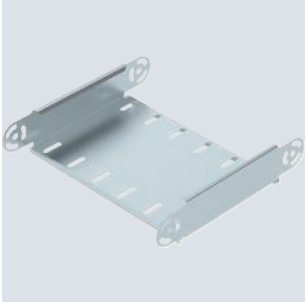
90° vertical bend, falling, for all cable tray types of 60 mm side height.
The vertical bend is pushed over the end of the cable tray and screwed tight.
Fastening materials should be ordered separately.

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Cable trays, side height 60

Adjustable bend element, vertical 60

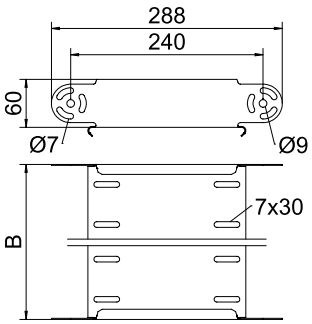
St FS



Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 FS	60	1	48.100	**7005326**
RGBEV 620 FS	60	1	63.600	**7005342**
RGBEV 630 FS	60	1	80.400	**7005369**
RGBEV 640 FS	60	1	114.000	**7005385**
RGBEV 650 FS	60	1	134.000	**7005407**
RGBEV 660 FS	60	1	155.900	**7005423**

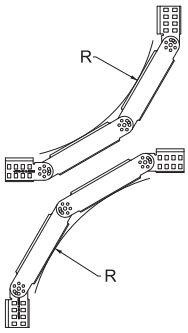
Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions



Type	Dim. B mm	Metal thick-ness mm
RGBEV 610 FS	100	1.00
RGBEV 620 FS	200	1.00
RGBEV 630 FS	300	1.00
RGBEV 640 FS	400	1.00
RGBEV 650 FS	500	1.00
RGBEV 660 FS	600	1.00

Installation



Radius table

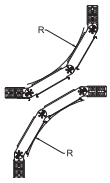
Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 60 adjustable connectors separately.

St FS

90° adjustable bend, vertical 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 610 FS	60	100	1	173.700	**7006322**
RGBV 620 FS	60	200	1	219.000	**7006349**
RGBV 630 FS	60	300	1	260.000	**7006365**
RGBV 640 FS	60	400	1	302.000	**7006381**
RGBV 650 FS	60	500	1	367.000	**7006411**
RGBV 660 FS	60	600	1	430.000	**7006446**



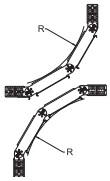


90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.
The bend is shipped in an unmounted state. No additional fastening materials are required.

St FS FT

90° adjustable bend, vertical 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 615 FS	60	150	1	200.000	**7006330**
RGBV 610 FT	60	100	1	186.000	**7079109**
RGBV 615 FT	60	150	1	200.000	**7079141**



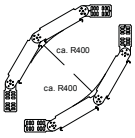


The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

A2 2B

90° adjustable bend, vertical 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 610 A2	60	100	1	182.000	**7138113**



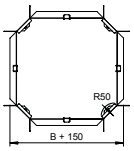


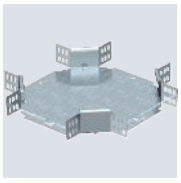
The bend is shipped in an unmounted state. No additional fastening materials are required.
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

St FS

Cross-over 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 610 FS	60	100	1	89.500	**6043615**
RK 615 FS	60	150	1	111.100	**6043607**
RK 620 FS	60	200	1	136.200	**6043623**
RK 630 FS	60	300	1	197.800	**6043631**





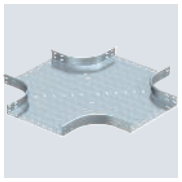
Horizontal cross-over for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

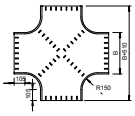
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Cable trays, side height 60

Cross-over 60

St FS FT

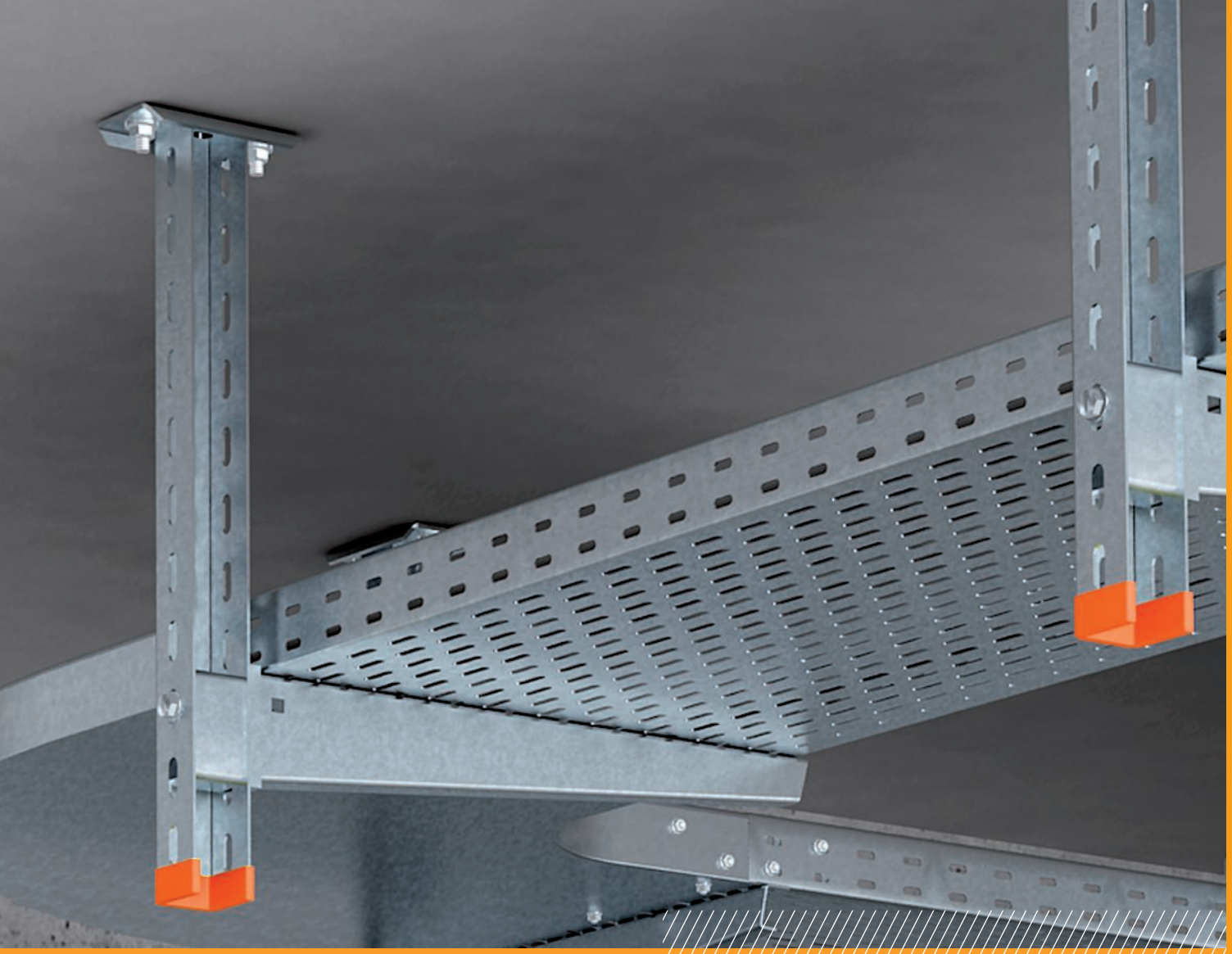




Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 640 FS	60	400	1	800.000	**7004397**
RK 650 FS	60	500	1	1,120.000	**7004419**
RK 660 FS	60	600	1	1,291.000	**7004435**
RK 640 FT	60	400	1	860.000	**7113404**
RK 650 FT	60	500	1	1,190.000	**7113501**
RK 660 FT	60	600	1	1,370.000	**7113609**

Horizontal cross-over for all cable tray types of 60 mm side height.

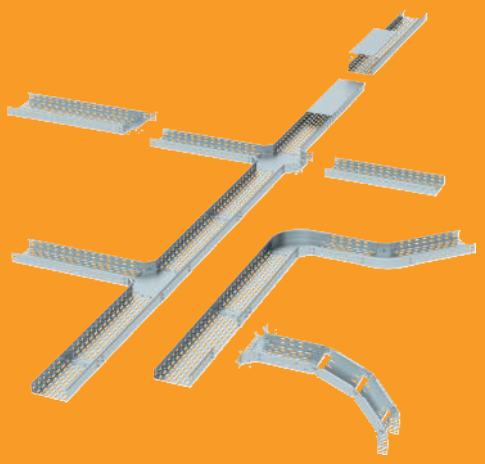
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.
Fastening materials should be ordered separately.



Cable tray system MKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

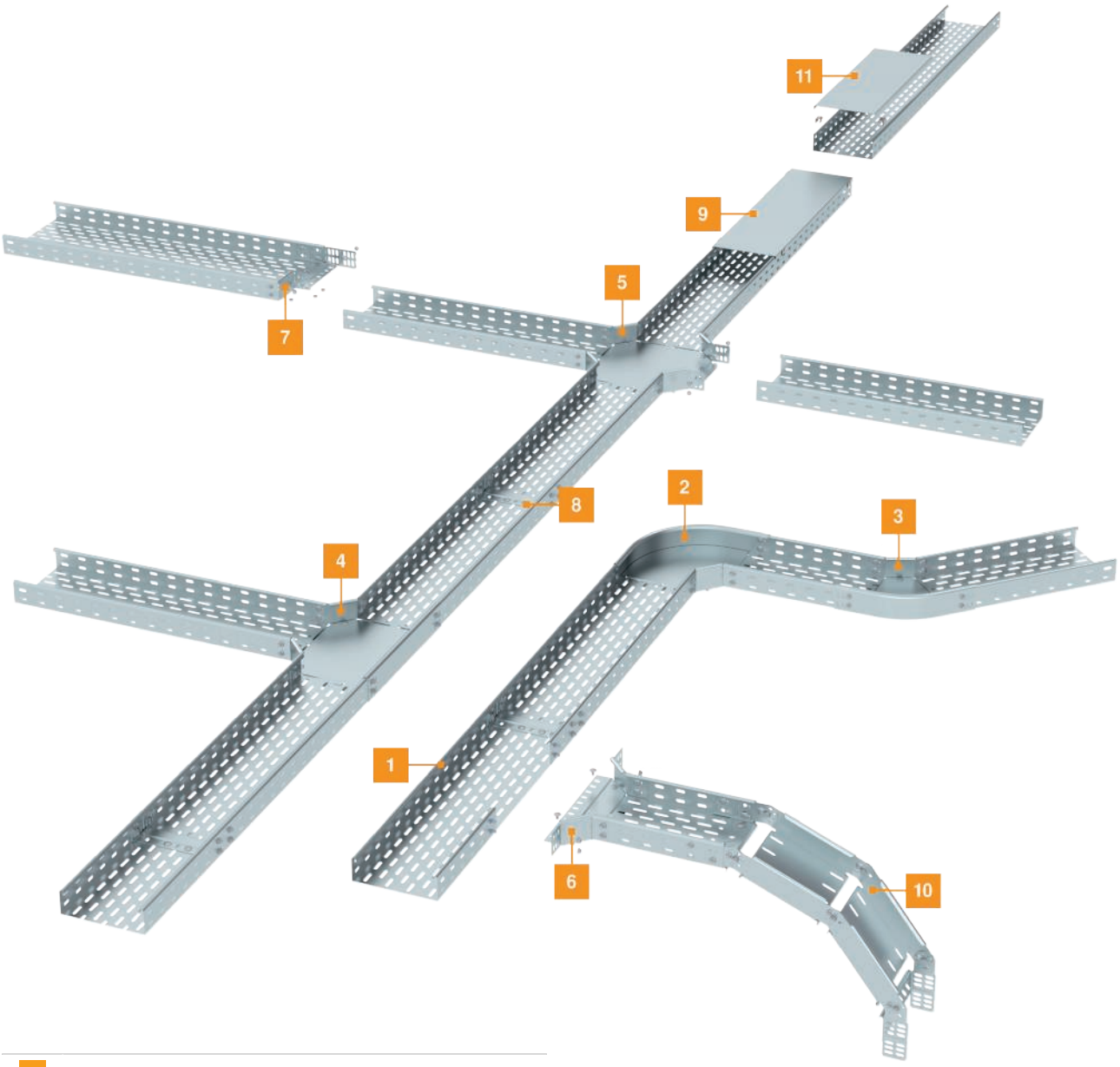
- Medium-duty cable tray system with side heights of 35, 60 and 85 mm
- Various fittings, functional connectors and additional accessories



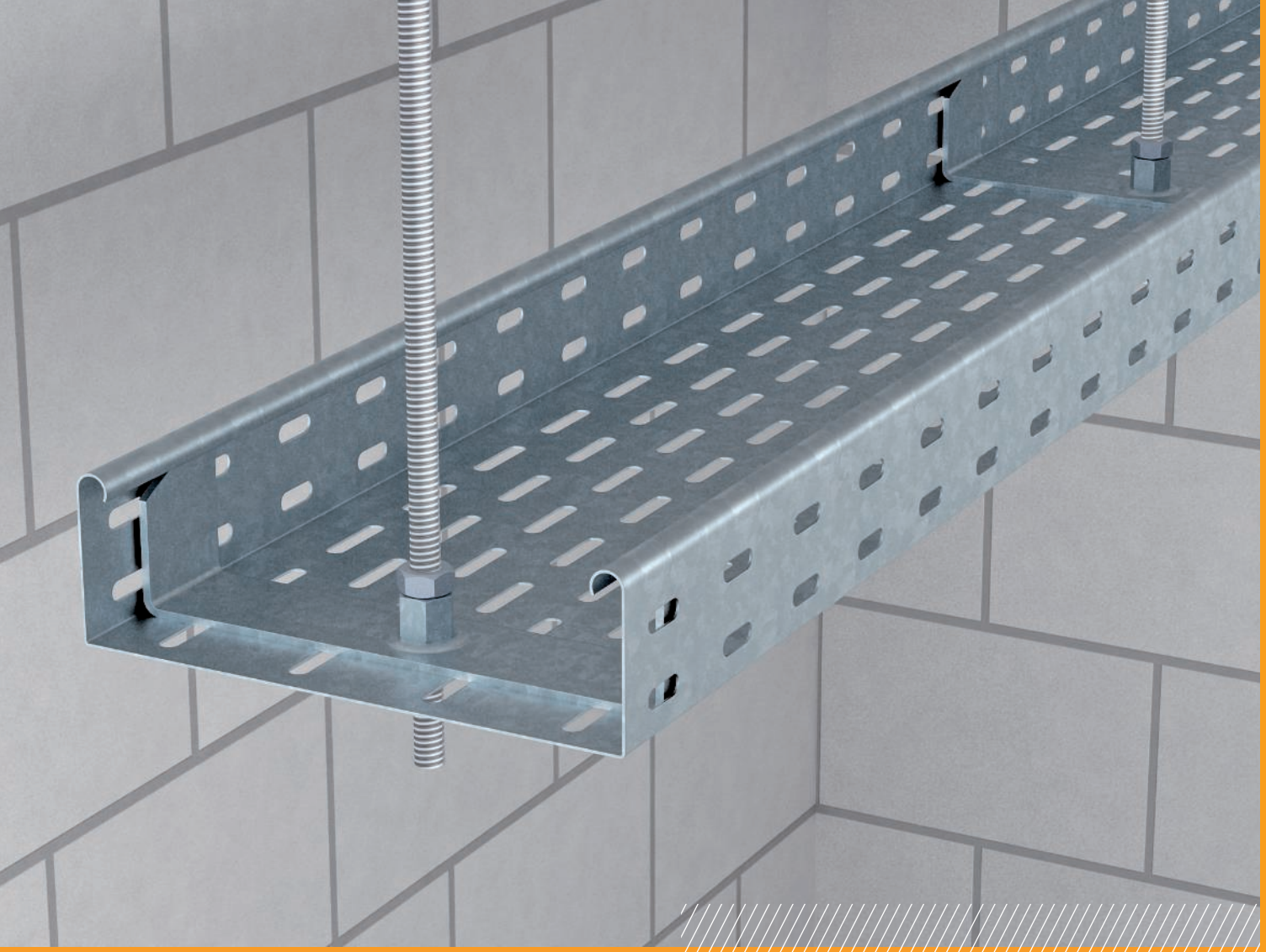
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Cable tray system MKS

Installation principle



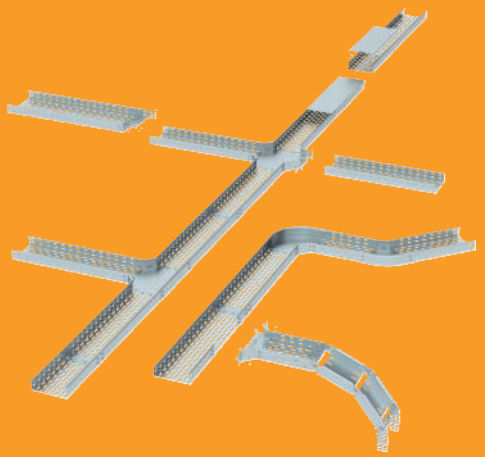
1	Cable tray MKS
2	90° bend
3	45° bend
4	T branch piece
5	Cross-over
6	Add-on tee
7	Reducer/stop-end
8	Straight connectors and joint plate
9	Cover with turn buckle
10	Adjustable bend element
11	Unperforated cover with cover clamp



Cable tray system SKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

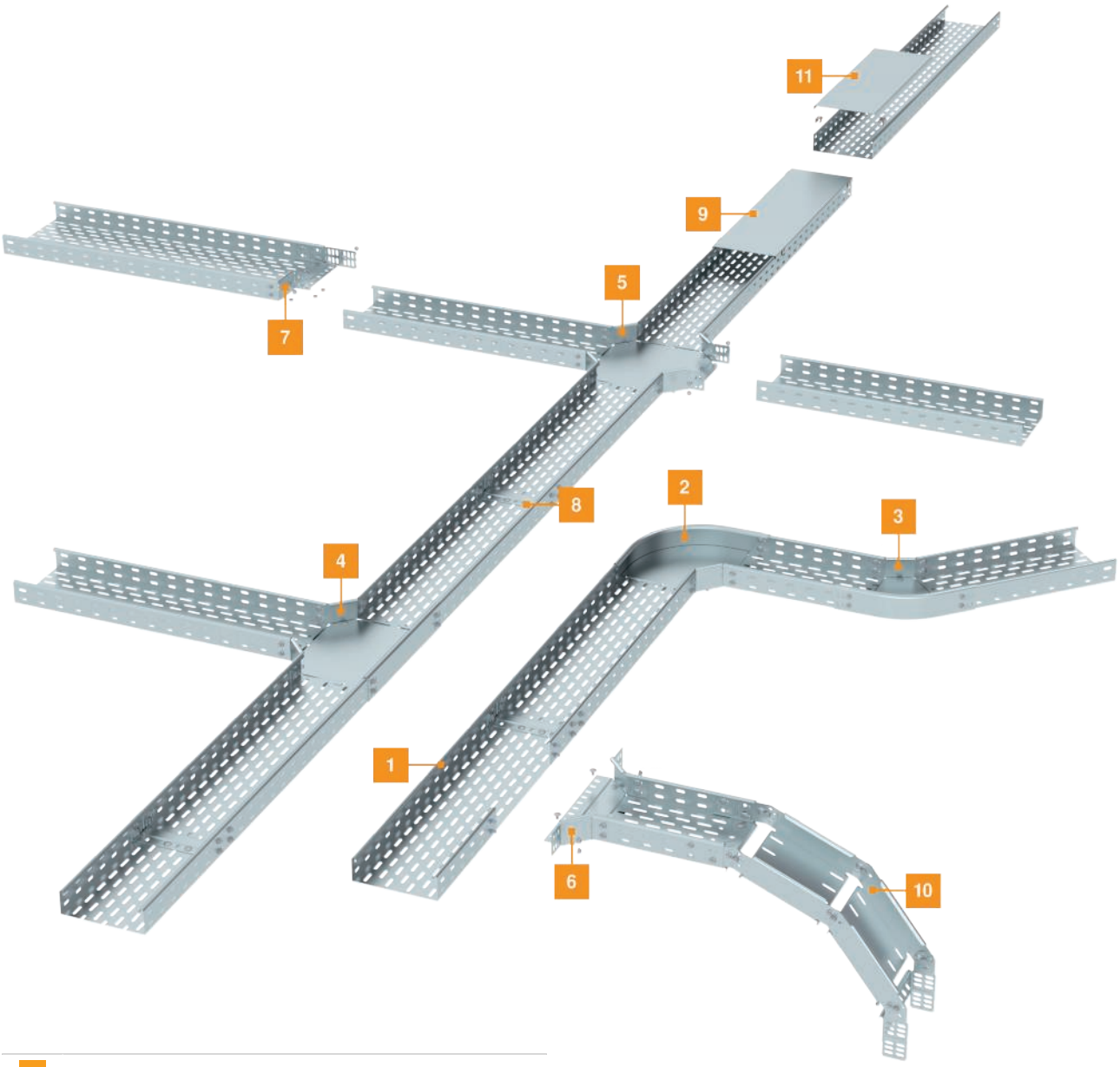
- Medium-duty cable tray system with side heights of 60, 85 and 110 mm
- Various fittings, functional connectors and additional accessories



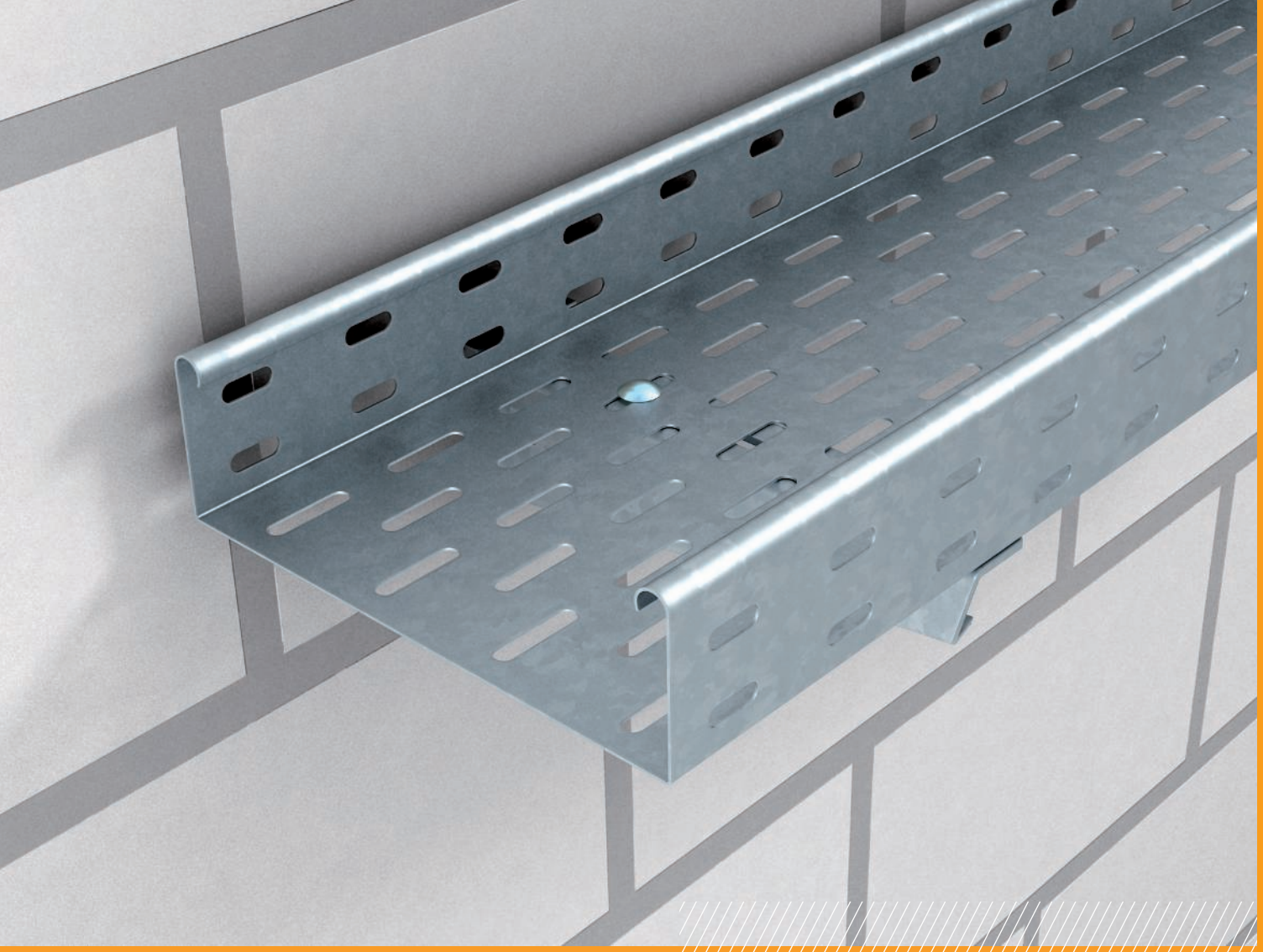
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Cable tray system SKS

Installation principle



1	Cable tray SKS
2	90° bend
3	45° bend
4	T branch piece
5	Cross-over
6	Add-on tee
7	Reducer/stop-end
8	Straight connectors and joint plate
9	Cover with turn buckle
10	Adjustable bend element
11	Unperforated cover with cover clamp

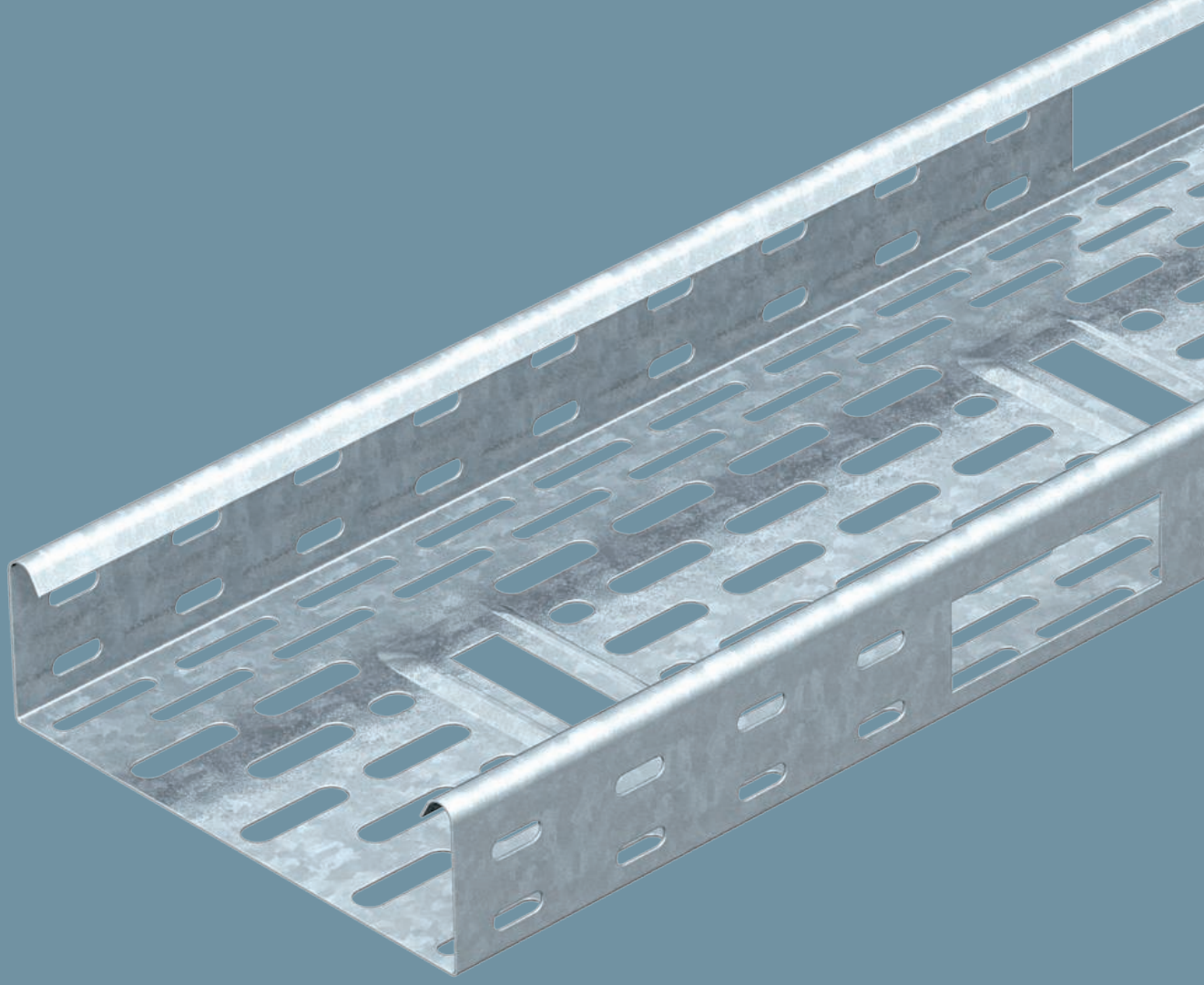


Cable tray system EKS

The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

- Extra-heavy cable tray system with 60 mm side height
- Various fittings, functional connectors and additional accessories

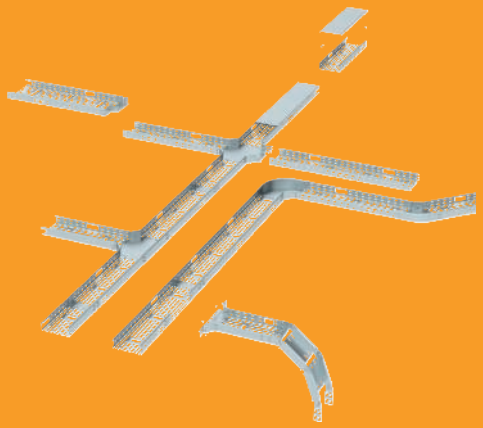
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Cable tray system IKS

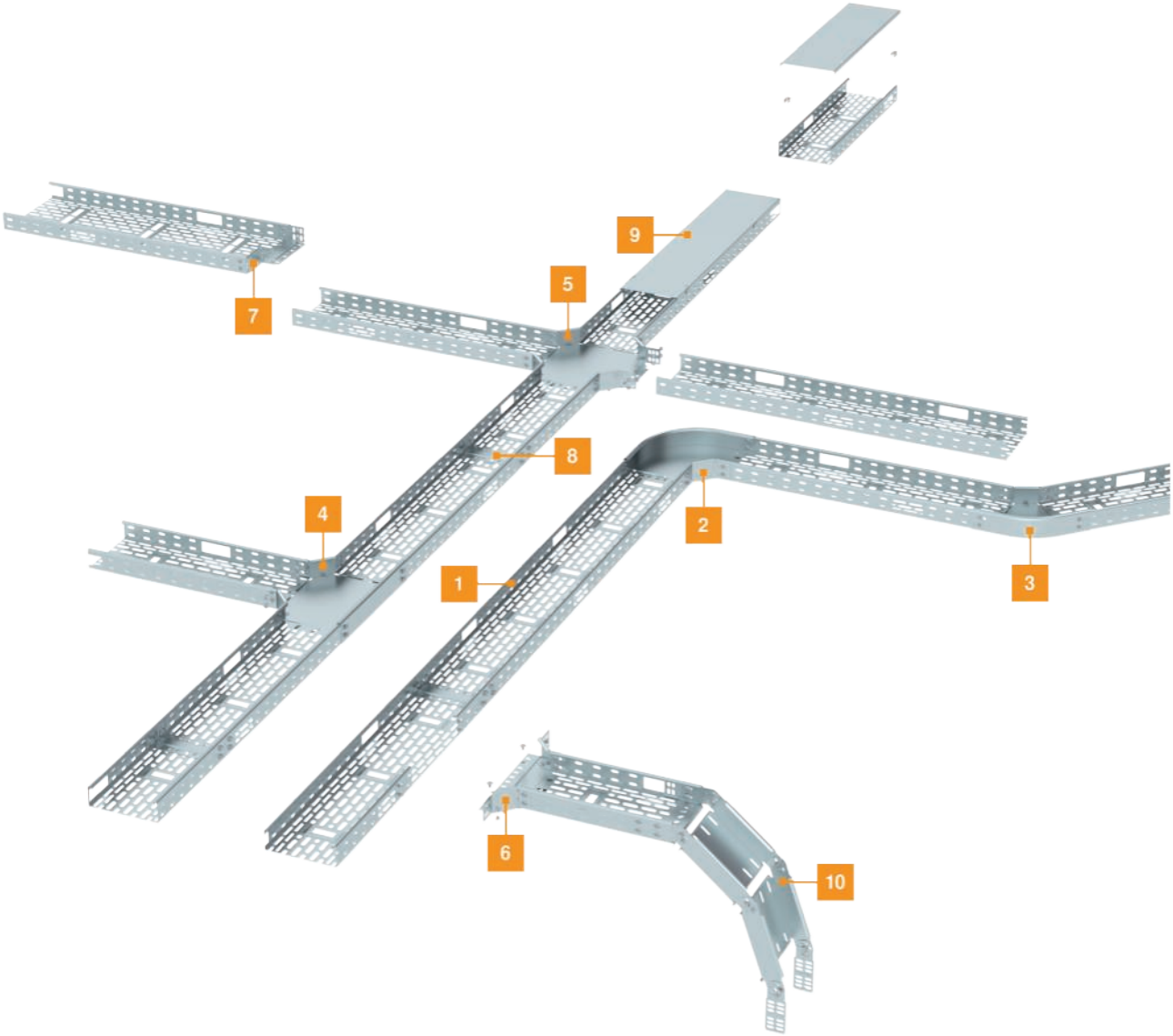
The cable tray is suitable for universal cable routing. From low-voltage cabling to power supplies, from data cables to telecommunications networks. A full product range, with suitable system components, can create perfect solutions for any task. No matter whether used in dry inner areas or in aggressive atmospheres: Different surface versions and materials ensure safe corrosion protection.

- Installation cable tray system with 60 mm side height
- 30% hole surface for use under sprinkler systems
- Various fittings, all types of connectors and additional accessories



Cable tray system IKS

Installation principle



1	Cable tray IKS
2	90° bend
3	45° bend
4	T branch piece
5	Cross-over
6	Add-on tee
7	Reducer/stop-end
8	Straight connectors and joint plate
9	Unperforated cover with cover clamp
10	Adjustable bend element

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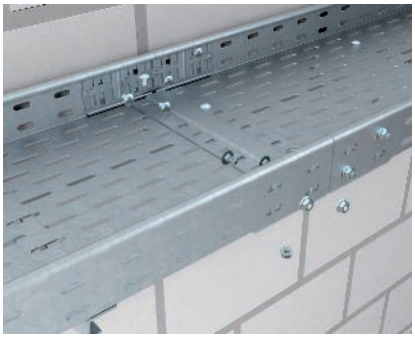
Mounting aid



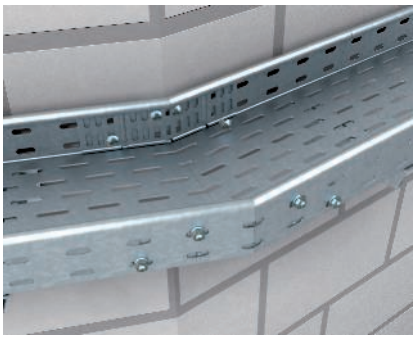
Installation of RV straight connector set
Straight connection of the cable trays through simply clamping the connector set RV into the side rail.



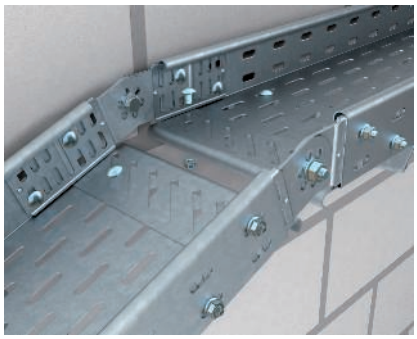
Screwless straight connector set, type RV
Press the corresponding joint plate downwards and snap it in place.



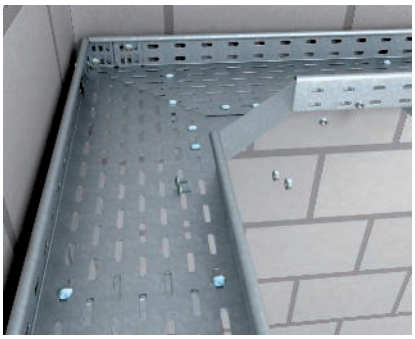
Straight connection with joint cover
Cable tray with screwed straight connection and joint plate, type SSLB. The joint plate can also be mounted above the bar of the RV straight connector set.



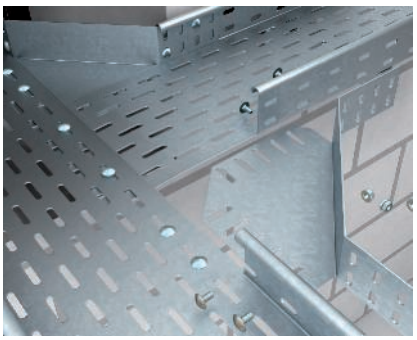
Horizontal angle connection of cable trays
Horizontal angle connection of cable trays for brackets created during construction and cut cable tray ends.



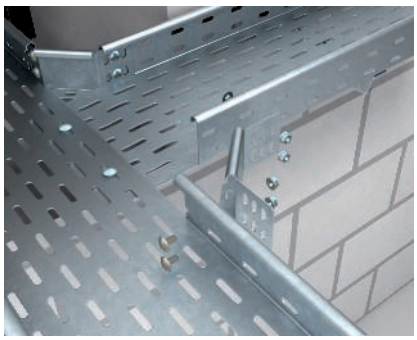
Vertical adjustable connection of cable trays
Vertical adjustable connection of cable tray for construction-side height jumps of any angle.



Bend creation with corner connector
For 90° bends to be created at site, the corner connector, type REV, can be used to increase the internal radius.



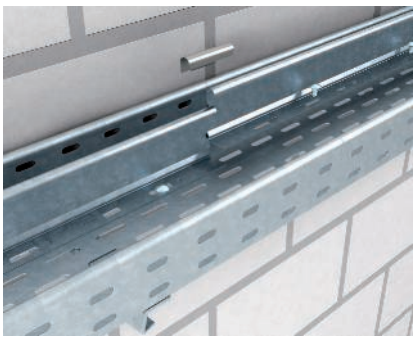
Direct connection with corner connectors
Corner connector, type REV, to increase the angle when creating tees without fittings. Additional supports should be planned for the area of the branches.



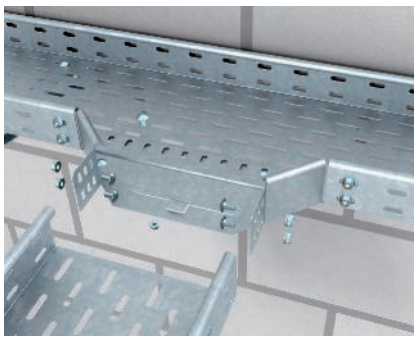
Branch with angle connectors
Installation of built T exit with angle connectors, type WKV. Additional supports should be planned for the area of the branches.



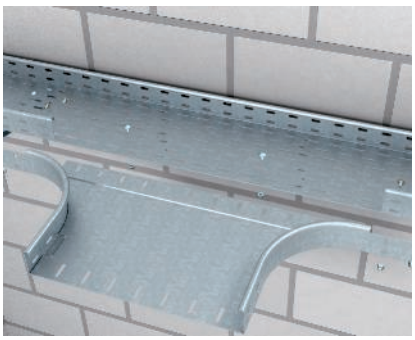
Installation of reducer / stop-end
The reducer / stop-end plate component is used as closure and to reduce the width of cable trays.



Barrier strip mounting with screw connection
Screwed barrier strip fastening of the barrier strip, TSG 60, with truss-head bolts M6x12. The barrier strip can simply be run over the joint and connected without bolts using the barrier strip connector TSGV.



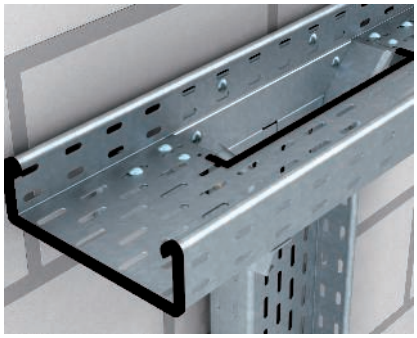
Installation of add-on tee (width 100 – 300 mm)
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.



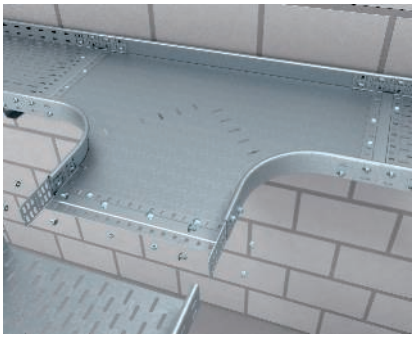
Installation of add-on tee (width 400 – 600 mm)
To mount the add-on tee, separate the cable tray rail and screw it tight. Additional supports should be planned for the area of the fittings.



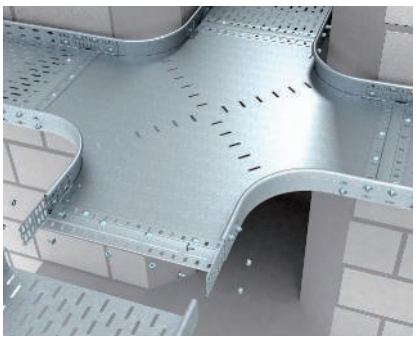
Installation of vertical add-on tee
Vertical mounting of the add-on tee as lengthwise funnel.



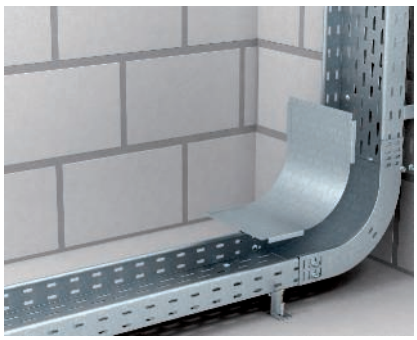
Installation of vertical add-on tee
Vertical mounting of the add-on tee as lengthwise funnel.



Installation of tee
The tee in widths is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



Installation of cross-over
The cross-over is connected to the cable tray using connectors and a joint plate. Additional supports should be planned for the area of the fittings.



90° bend (rising/falling)
90° bend, rising or falling, for the creation of simple vertical changes of direction.



Installation of adjustable vertical bend element
Installation of the adjustable vertical bend element for the creation of adjustable bends. The adjustable vertical bend element is connected to the cable tray using adjustable connectors.

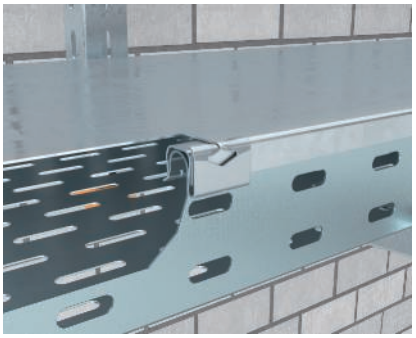
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13



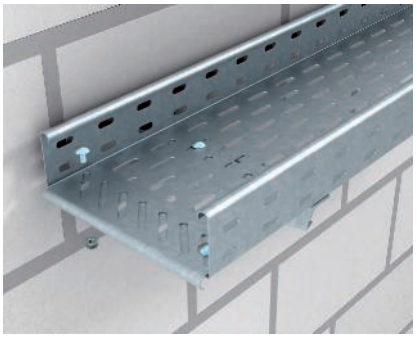
Installation of falling adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



Installation of rising adjustable vertical bend
Adjustable vertical bend to bridge height offsets. The adjustable vertical bend is connected with to the cable tray using the adjustable connectors.



Screwless cover mounting
Unperforated covers are mounted using cover clamps, type DK DRLU. The cover clamps are first clamped to the cover edge and then snapped on to the cable tray rail with the cover.



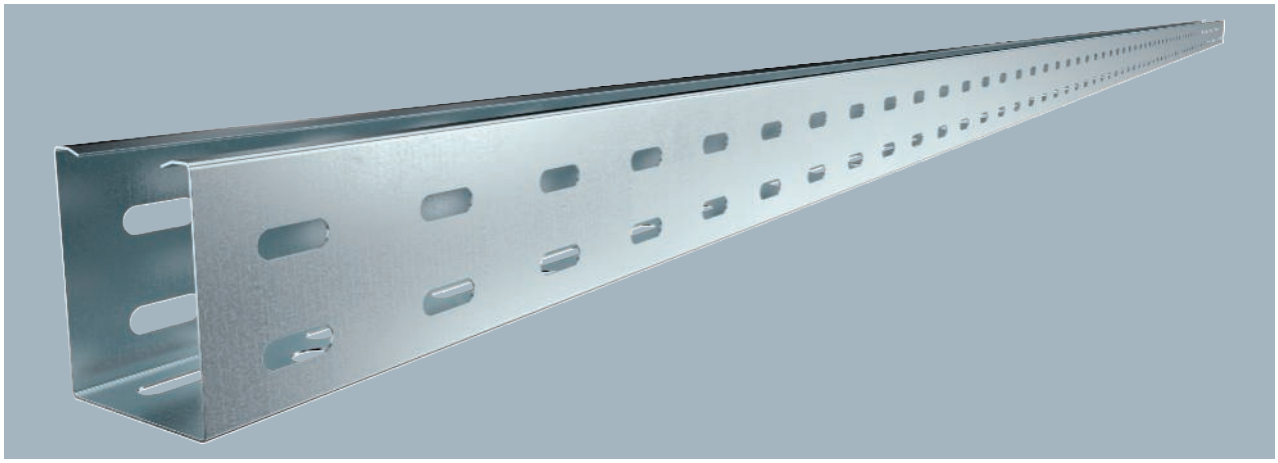
Installation of bottom end plate
Fastening of the bottom end plate, type BEB, to protect the cables.



Mounting plate with quick fastening
Fastening of the mounting plate, type MP, on the cable tray. The mounting plate can be fastened to the rail with quick connectors, and permanently fastened using truss-head bolts of type FRS B.

St FS

Cable tray RKS 60

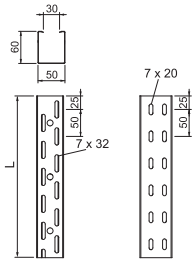


RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).

Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

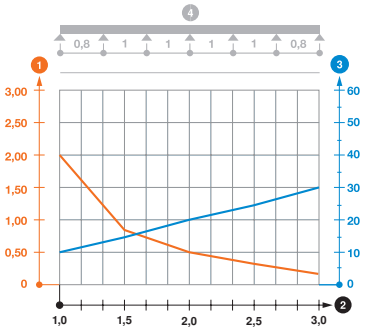
Type	Side height mm	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
RKS 605 FS	60	50	0.75		3	96.000	**6047600**

Dimensions



Type	Dim. L mm	Usable cross-section cm^2
RKS 605 FS	3000	30

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
RKS 605 FS	2	0.8	0.5	0.35	0.15

Load diagram, cable tray, type RKS 60, unbeaded

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

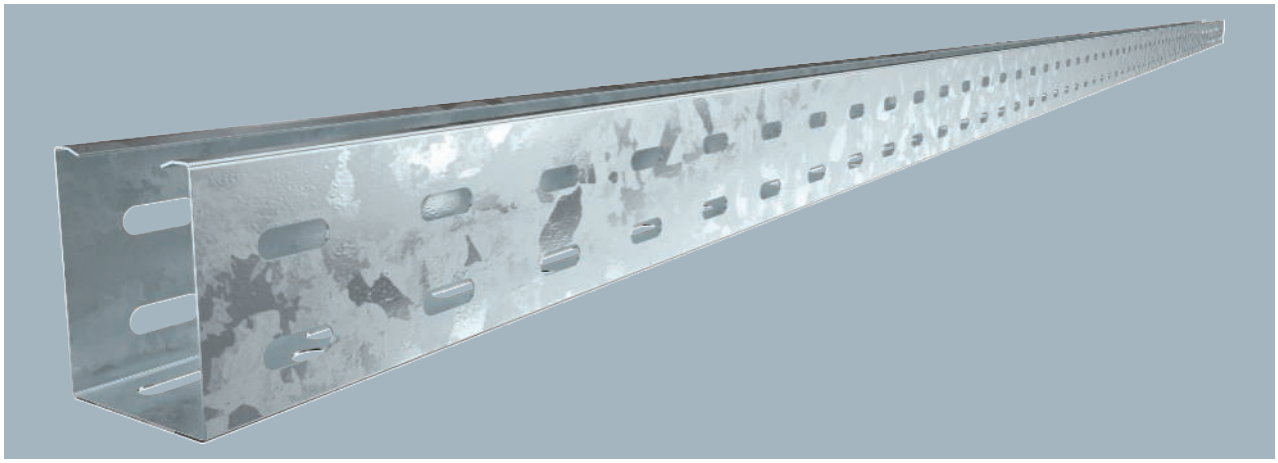
— Strut bend curve according to support width

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Cable trays, side height 60

Cable tray RKS 60

St FT



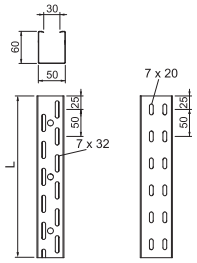
Type	Side height mm	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
RKS 605 FT	60	50	0.75		3	108.000	**6047602**

RKS 60 = Rational cable tray system with 60 mm side height (unbeaded base plate).

Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.

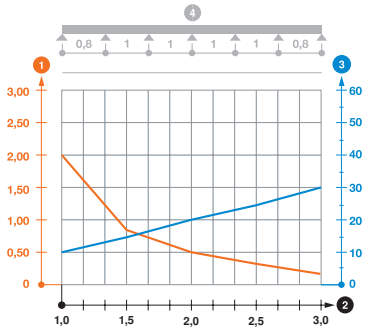
Type	Dim. L mm	Usable cross-section cm²
RKS 605 FT	3000	30

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
RKS 605 FT	2	0.8	0.5	0.35	0.15

Load



Load diagram, cable tray, type RKS 60, unbeaded

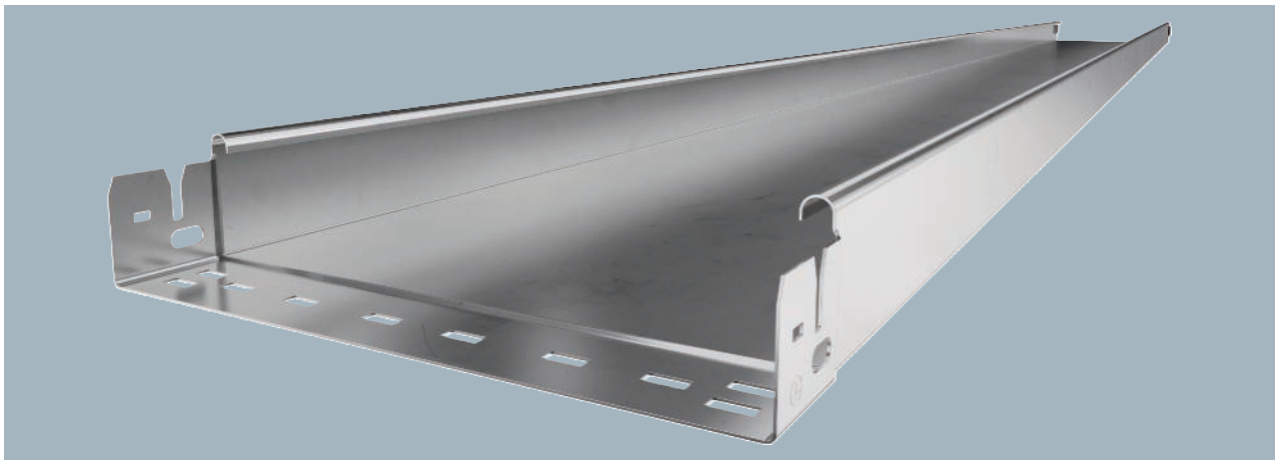
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

Cable tray MKS-Magic® 60, unperforated

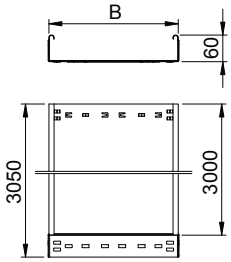


Continuous equipotential bonding is guaranteed without additional components.

Unperforated cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.

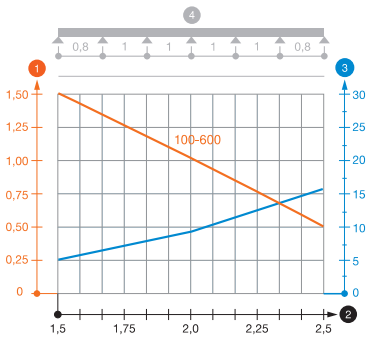
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 610 A2	100	1.00	3	194.867	**6059265**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 610 A2	3050	100	58

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 610 A2	1.5	1	0.5

Load diagram, cable tray, type MKSMU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

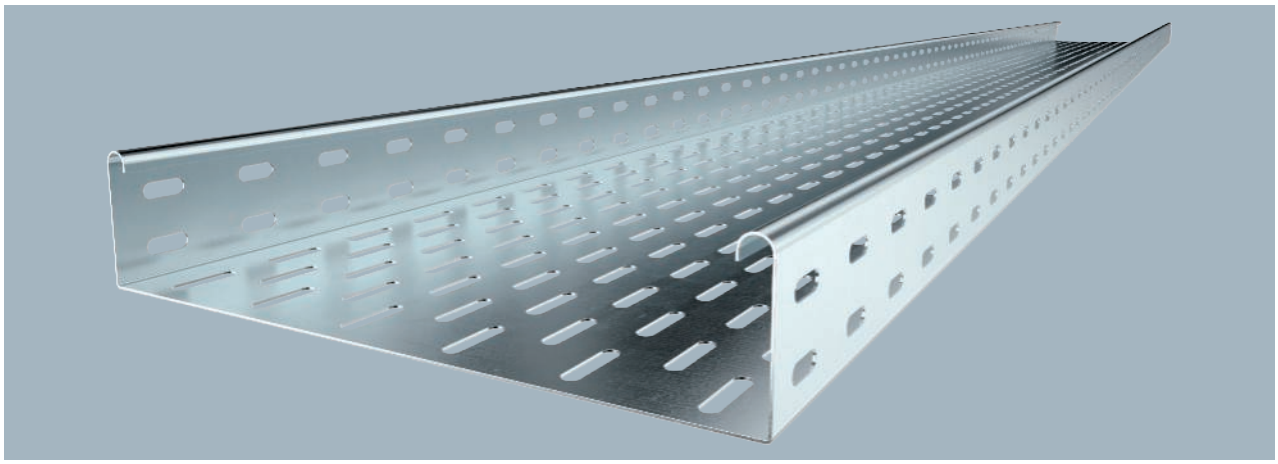
— Strut bend curve according to support width

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Cable trays, side height 60

Cable tray MKS 60

St FS



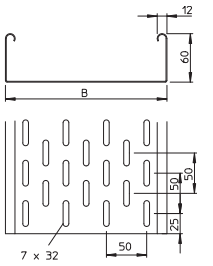
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKS 610 FS	100	1.00		3	173.000	**6055109**
MKS 615 FS	150	1.00		3	214.000	**6055141**
MKS 620 FS	200	1.00		3	246.700	**6055206**
MKS 630 FS	300	1.00		3	312.667	**6055303**
MKS 640 FS	400	1.00		3	380.000	**6055400**
MKS 650 FS	500	1.00		3	447.334	**6055508**
MKS 660 FS	600	1.00		3	513.334	**6055524**

Tested for installation above suspended fire protection ceilings (tray widths 100-400 mm, fire load 30 minutes, mounting work and parameters according to fire protection reports)

MKS 60 = medium-duty cable tray system with a side height of 60 mm. FS version includes RV 60 straight connector set.

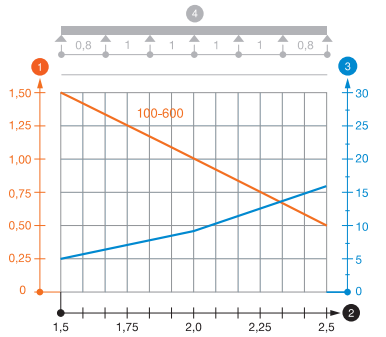
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 610 FS	3000	100	58
MKS 615 FS	3000	150	88
MKS 620 FS	3000	200	118
MKS 630 FS	3000	300	178
MKS 640 FS	3000	400	238
MKS 650 FS	3000	500	298
MKS 660 FS	3000	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 610 FS	1.5	1	0.5
MKS 615 FS	1.5	1	0.5
MKS 620 FS	1.5	1	0.5
MKS 630 FS	1.5	1	0.5
MKS 640 FS	1.5	1	0.5
MKS 650 FS	1.5	1	0.5
MKS 660 FS	1.5	1	0.5

Load



Load diagram, cable tray, type MKS 60

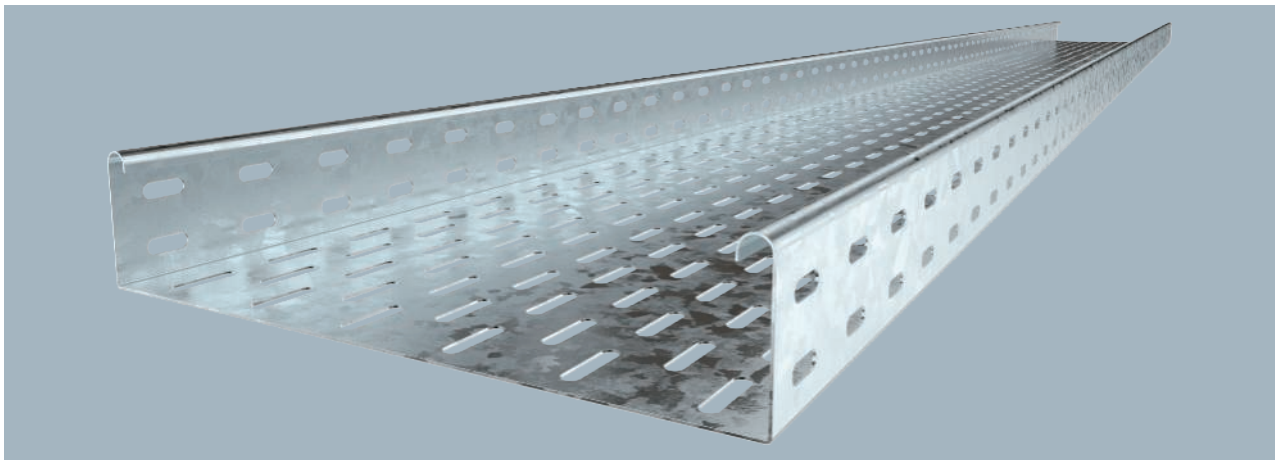
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

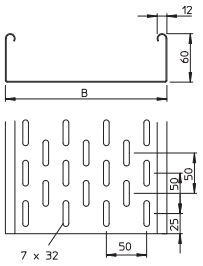
Cable tray MKS 60



MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

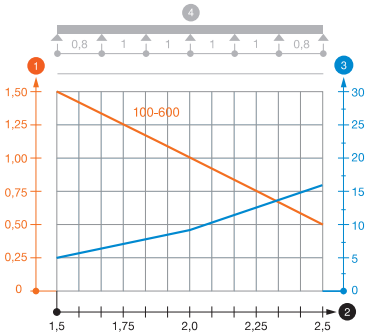
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKS 610 FT	100	1.00	3	190.100	**6055532**
MKS 615 FT	150	1.00	3	225.667	**6055559**
MKS 620 FT	200	1.00	3	263.234	**6055575**
MKS 630 FT	300	1.00	3	332.334	**6055613**
MKS 640 FT	400	1.00	3	403.334	**6055664**
MKS 650 FT	500	1.00	3	474.667	**6055699**
MKS 660 FT	600	1.00	3	545.670	**6055710**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 610 FT	3000	100	58
MKS 615 FT	3000	150	88
MKS 620 FT	3000	200	118
MKS 630 FT	3000	300	178
MKS 640 FT	3000	400	238
MKS 650 FT	3000	500	298
MKS 660 FT	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 610 FT	1.5	1	0.5
MKS 615 FT	1.5	1	0.5
MKS 620 FT	1.5	1	0.5
MKS 630 FT	1.5	1	0.5
MKS 640 FT	1.5	1	0.5
MKS 650 FT	1.5	1	0.5
MKS 660 FT	1.5	1	0.5

Load diagram, cable tray, type MKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

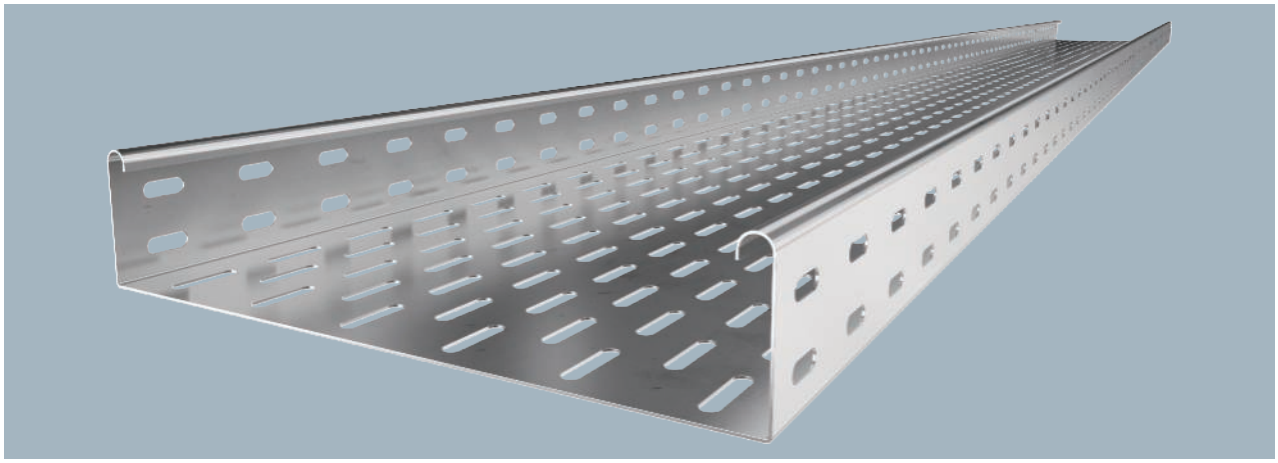
— Strut bend curve according to support width

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Cable trays, side height 60

Cable tray MKS 60

A2 2B



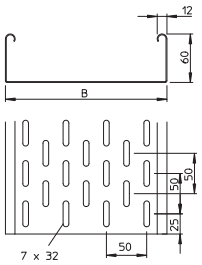
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKS 610 A2	100	1.00	3	174.200	**6056016**
MKS 620 A2	200	1.00	3	239.400	**6056024**
MKS 630 A2	300	1.00	3	304.667	**6056040**
MKS 640 A2	400	1.00	3	370.000	**6056059**

Connecting parts should be ordered in the appropriate quantity.

MKS 60 = Medium-duty cable tray system with a side height of 60 mm.

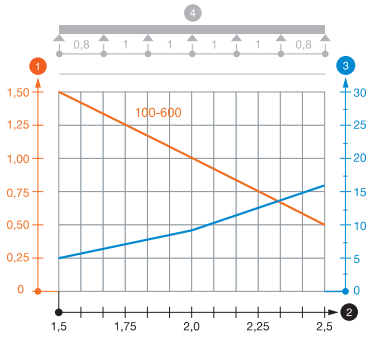
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 610 A2	3000	100	58
MKS 620 A2	3000	200	118
MKS 630 A2	3000	300	178
MKS 640 A2	3000	400	238

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 610 A2	1.5	1	0.5
MKS 620 A2	1.5	1	0.5
MKS 630 A2	1.5	1	0.5
MKS 640 A2	1.5	1	0.5

Load



Load diagram, cable tray MKS 60 VA

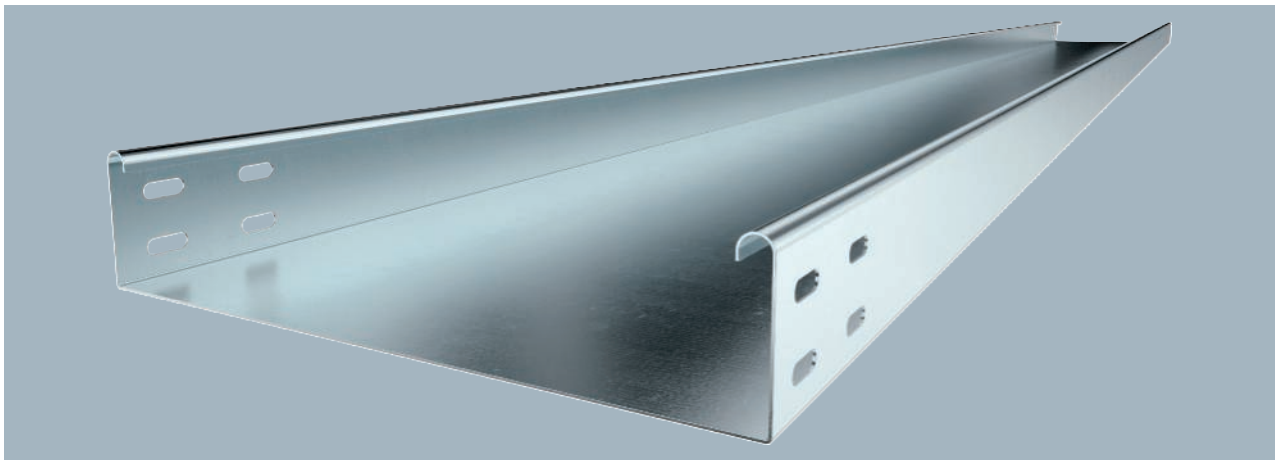
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable tray MKSU 60

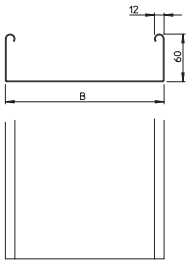


The cable tray has connector perforations on both sides.

MKSU 60 = medium-duty cable tray system, unperforated, with a side height of 60 mm. Straight connectors should be ordered in the appropriate quantity.

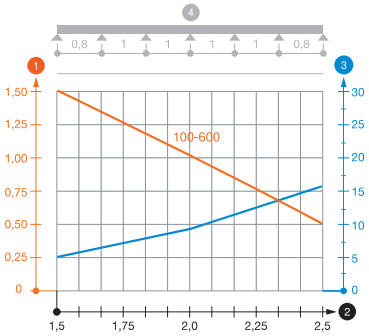
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKSU 610 FS	100	1.00		3	189.000	**6063160**
MKSU 615 FS	150	1.00		3	229.300	**6063179**
MKSU 620 FS	200	1.00		3	266.700	**6063187**
MKSU 630 FS	300	1.00		3	347.000	**6063209**
MKSU 640 FS	400	1.00		3	426.000	**6063225**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSU 610 FS	3000	100	58
MKSU 615 FS	3000	150	88
MKSU 620 FS	3000	200	118
MKSU 630 FS	3000	300	178
MKSU 640 FS	3000	400	238

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSU 610 FS	1.5	1	0.5
MKSU 615 FS	1.5	1	0.5
MKSU 620 FS	1.5	1	0.5
MKSU 630 FS	1.5	1	0.5
MKSU 640 FS	1.5	1	0.5

Load diagram, cable tray, type MKSU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

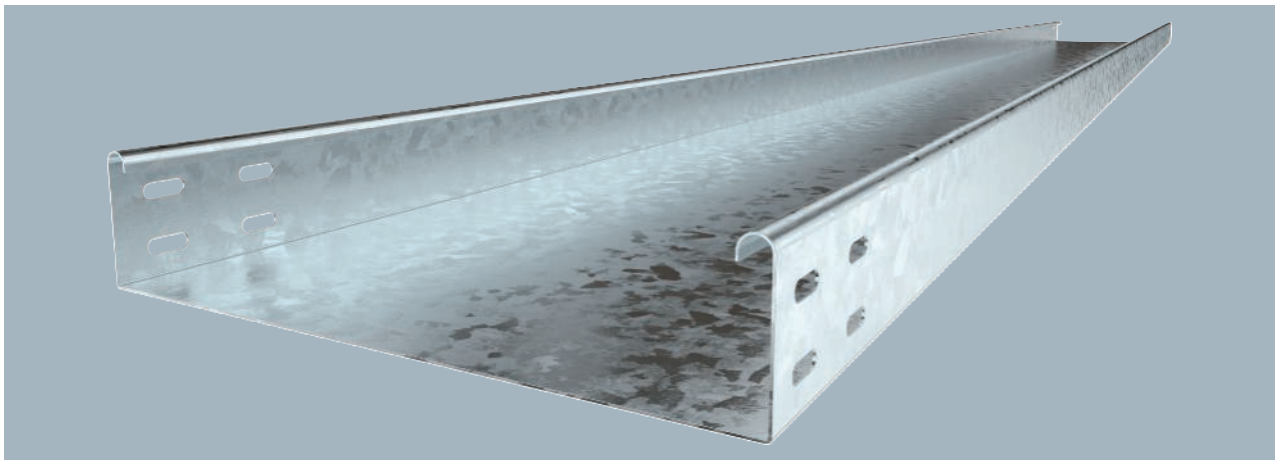
Always indicate the item number when ordering.

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Cable trays, side height 60

Cable tray MKSU 60

St FT



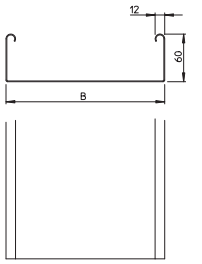
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKSU 610 FT	100	1.00		3	209.000	**6064302**
MKSU 615 FT	150	1.00		3	250.000	**6064319**
MKSU 620 FT	200	1.00		3	290.000	**6064345**
MKSU 630 FT	300	1.00		3	378.000	**6064396**
MKSU 640 FT	400	1.00		3	464.000	**6064426**

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

MKSU 60 = Medium duty cable tray system, unperforated, with a side height of 60 mm.

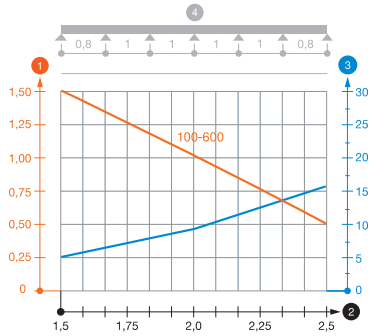
Type	Length mm	Width mm	Usable cross-section cm²
MKSU 610 FT	3000	100	58
MKSU 615 FT	3000	150	88
MKSU 620 FT	3000	200	118
MKSU 630 FT	3000	300	178
MKSU 640 FT	3000	400	238

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSU 610 FT	1.5	1	0.5
MKSU 615 FT	1.5	1	0.5
MKSU 620 FT	1.5	1	0.5
MKSU 630 FT	1.5	1	0.5
MKSU 640 FT	1.5	1	0.5

Load



Load diagram, cable tray, type MKSU 60

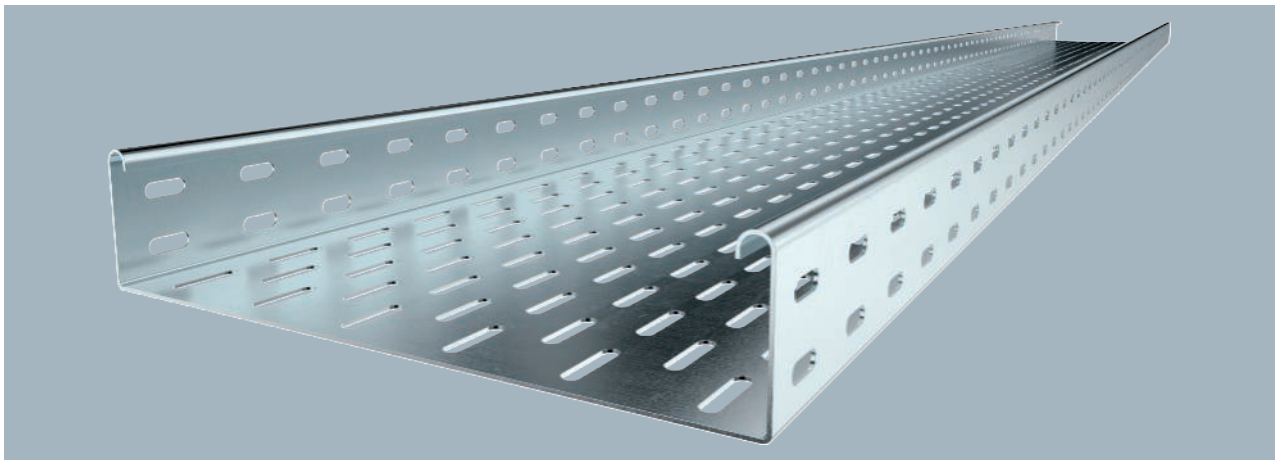
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable tray SKS 60

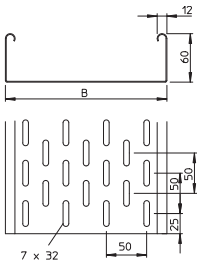


The cable tray, type SKS, should also be used for the maintenance of electrical function. For additional data, please refer to BSS fire protection systems.

SKS 60 = heavy-duty cable tray system with 60 mm side height.

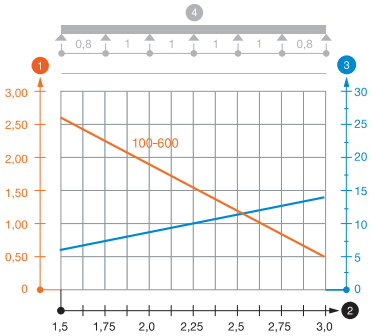
Type	Width mm	Metal thickness mm	BS	Pack m	Weight kg/100 m	Item no.
SKS 610 FS	100	1.50		3	239.400	**6056105**
SKS 615 FS	150	1.50		3	316.670	**6056156**
SKS 620 FS	200	1.50		3	364.000	**6056202**
SKS 630 FS	300	1.50		3	463.670	**6056296**
SKS 640 FS	400	1.50		3	564.340	**6056407**
SKS 650 FS	500	1.50		3	663.340	**6056504**
SKS 660 FS	600	1.50		3	762.340	**6056601**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 610 FS	3000	100	58
SKS 615 FS	3000	150	88
SKS 620 FS	3000	200	118
SKS 630 FS	3000	300	178
SKS 640 FS	3000	400	238
SKS 650 FS	3000	500	298
SKS 660 FS	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 FS	2.65	1.8	1.15	0.5
SKS 615 FS	2.65	1.8	1.15	0.5
SKS 620 FS	2.65	1.8	1.15	0.5
SKS 630 FS	2.65	1.8	1.15	0.5
SKS 640 FS	2.65	1.8	1.15	0.5
SKS 650 FS	2.65	1.8	1.15	0.5
SKS 660 FS	2.65	1.8	1.15	0.5

Load diagram, cable tray, type SKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

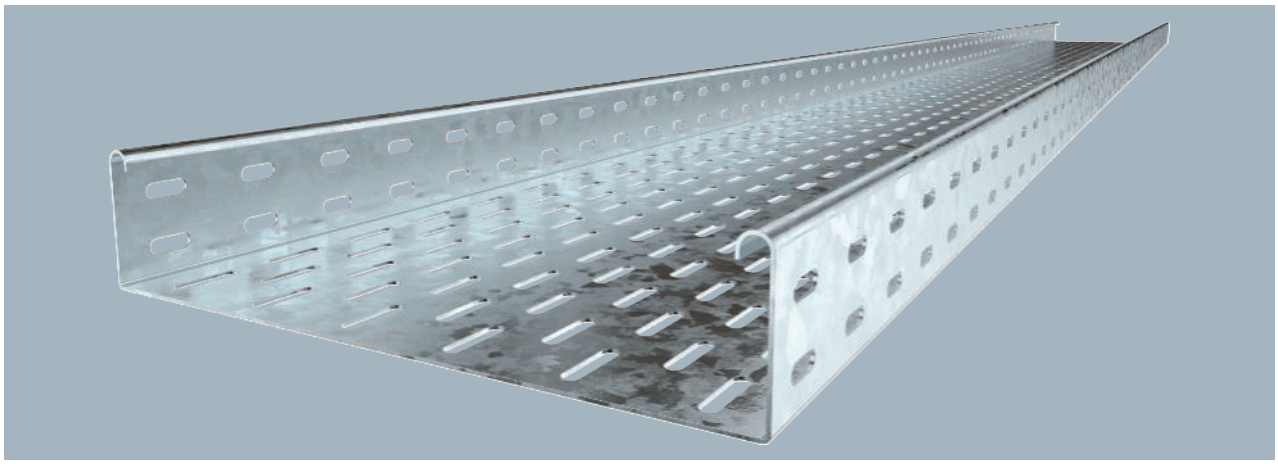
Always indicate the item number when ordering.

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Cable trays, side height 60

Cable tray SKS 60

St FT



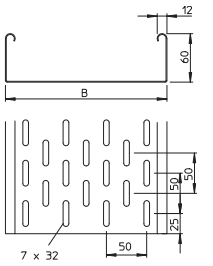
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
SKS 610 FT	100	1.50		3	277.000	**6056636**
SKS 615 FT	150	1.50		3	328.700	**6056644**
SKS 620 FT	200	1.50		3	380.000	**6056652**
SKS 630 FT	300	1.50		3	485.670	**6056679**
SKS 640 FT	400	1.50		3	590.340	**6056695**
SKS 650 FT	500	1.50		3	694.670	**6056717**
SKS 660 FT	600	1.50		3	799.000	**6056733**

The cable tray, type SKS, should also be used for the maintenance of electrical function. For additional data, please refer to BSS fire protection systems.

SKS 60 = Heavy-duty cable tray system with 60 mm side height.

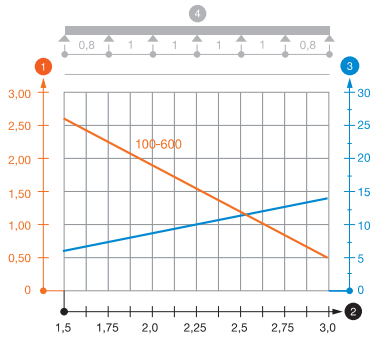
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 610 FT	3000	100	58
SKS 615 FT	3000	150	88
SKS 620 FT	3000	200	118
SKS 630 FT	3000	300	178
SKS 640 FT	3000	400	238
SKS 650 FT	3000	500	298
SKS 660 FT	3000	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 FT	2.65	1.8	1.15	0.5
SKS 615 FT	2.65	1.8	1.15	0.5
SKS 620 FT	2.65	1.8	1.15	0.5
SKS 630 FT	2.65	1.8	1.15	0.5
SKS 640 FT	2.65	1.8	1.15	0.5
SKS 650 FT	2.65	1.8	1.15	0.5
SKS 660 FT	2.65	1.8	1.15	0.5

Load



Load diagram, cable tray, type SKS 60

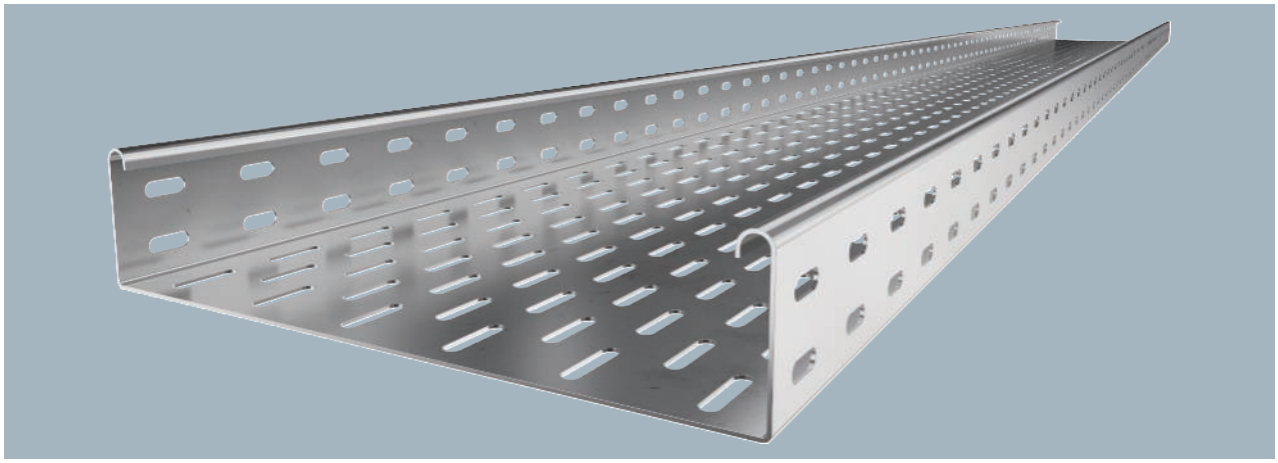
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

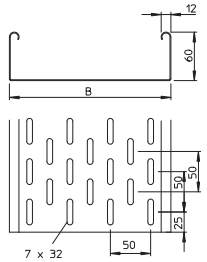
Cable tray SKS 60



Connecting parts should be ordered in the appropriate quantity.
SKS 60 = heavy-duty cable tray system with 60 mm side height.

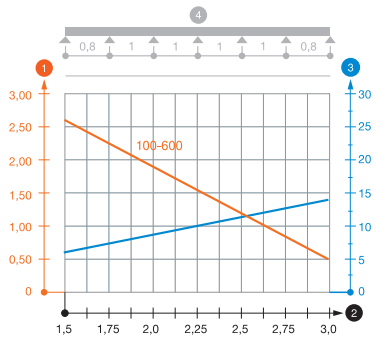
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKS 610 A2	100	1.50	3	260.000	**6056735**
SKS 620 A2	200	1.50	3	356.667	**6056737**
SKS 630 A2	300	1.50	3	455.333	**6056739**
SKS 640 A2	400	1.50	3	553.667	**6056742**
SKS 650 A2	500	1.50	3	651.333	**6056744**
SKS 660 A2	600	1.50	3	749.333	**6056746**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 610 A2	3000	100	58
SKS 620 A2	3000	200	118
SKS 630 A2	3000	300	178
SKS 640 A2	3000	400	238
SKS 650 A2	3000	500	298
SKS 660 A2	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 610 A2	2.65	1.8	1.15	0.5
SKS 620 A2	2.65	1.8	1.15	0.5
SKS 630 A2	2.65	1.8	1.15	0.5
SKS 640 A2	2.65	1.8	1.15	0.5
SKS 650 A2	2.65	1.8	1.15	0.5
SKS 660 A2	2.65	1.8	1.15	0.5

Load diagram, cable tray, type SKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

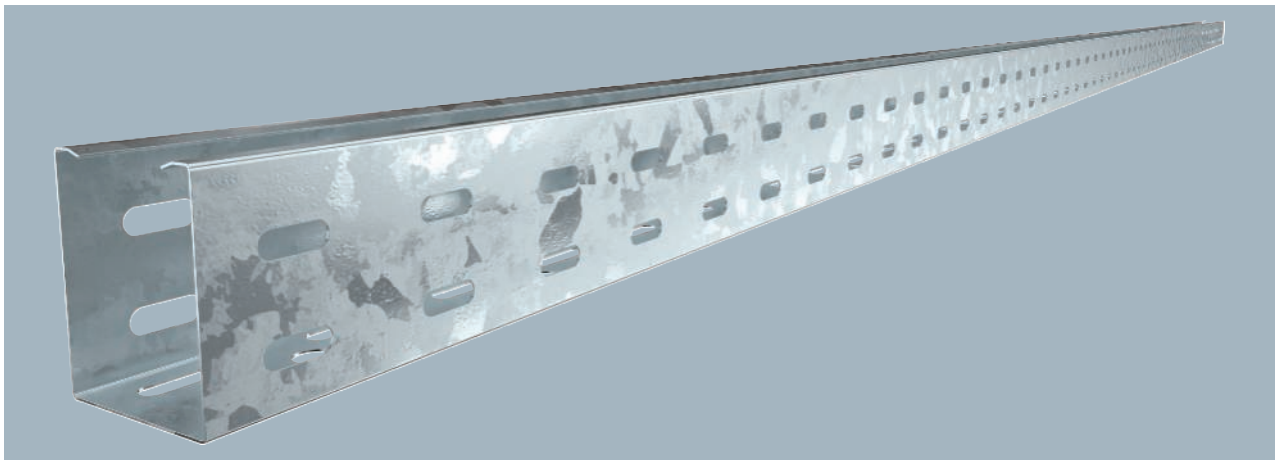
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Cable trays, side height 60

Cable tray SKS 605

St FT

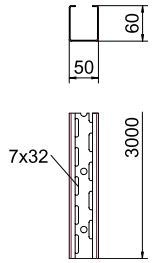
CE



Type	Side height mm	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
SKS 605 FT	60	50	1.50		3	203.900	**6056634**

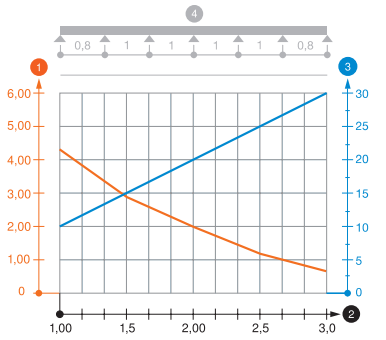
SKS 60 = Heavy-duty cable tray system with 60 mm side height.
Cable tray with continuous bottom and side perforation as well as central holes (Ø11 mm) in the base for additional fastenings.
Matching cover with turn buckle: Type AZDMD 50
Additional fastening material not included.

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 605 FT	4.3	2.8	2	1.1	0.7

Load



Load diagram, cable tray, type SKS 605

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable tray SKSU 60

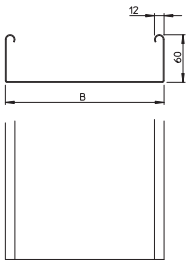


The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

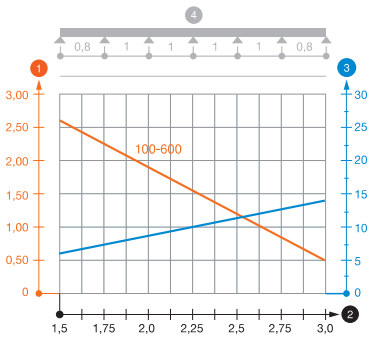
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 610 FS	100	1.50	3	286.000	**6063234**
SKSU 620 FS	200	1.50	3	399.670	**6063236**
SKSU 630 FS	300	1.50	3	516.000	**6063238**
SKSU 640 FS	400	1.50	3	639.000	**6063950**
SKSU 650 FS	500	1.50	3	756.670	**6063241**
SKSU 660 FS	600	1.50	3	877.000	**6063276**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSU 610 FS	3000	100	58
SKSU 620 FS	3000	200	118
SKSU 630 FS	3000	300	178
SKSU 640 FS	3000	400	238
SKSU 650 FS	3000	500	298
SKSU 660 FS	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSU 610 FS	2.6	1.9	1.1	0.55
SKSU 620 FS	2.6	1.9	1.1	0.55
SKSU 630 FS	2.6	1.9	1.1	0.55
SKSU 640 FS	2.6	1.9	1.1	0.55
SKSU 650 FS	2.6	1.9	1.1	0.55
SKSU 660 FS	2.6	1.9	1.1	0.55

Load diagram, cable tray, type SKSU 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

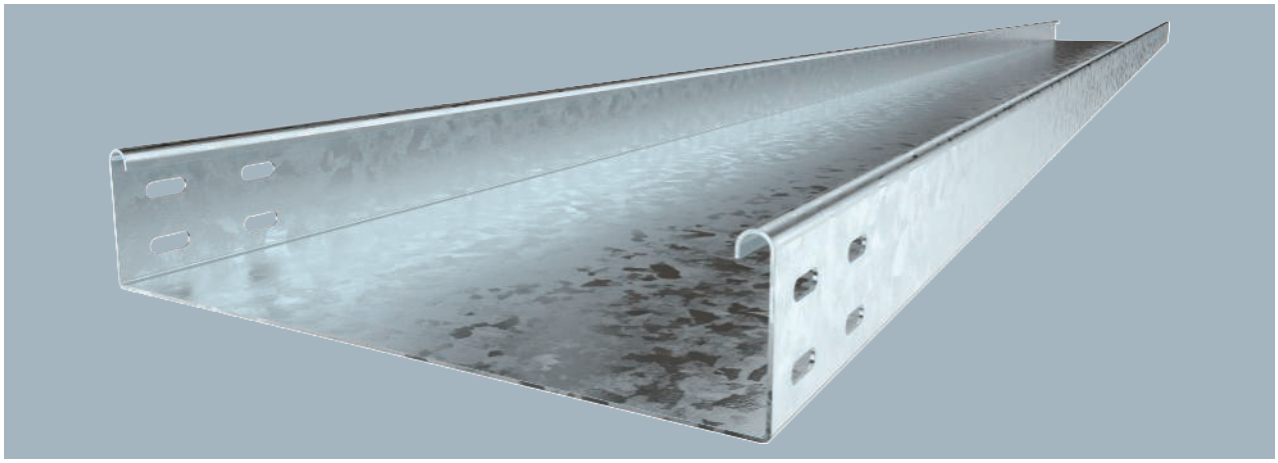
— Strut bend curve according to support width

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Cable trays, side height 60

Cable tray SKSU 60

St FT



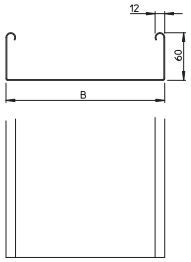
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
SKSU 610 FT	100	1.50		3	302.670	**6064307**
SKSU 620 FT	200	1.50		3	427.340	**6064353**
SKSU 630 FT	300	1.50		3	554.670	**6064409**
SKSU 640 FT	400	1.50		3	687.000	**6064435**
SKSU 650 FT	500	1.50		3	802.000	**6064515**
SKSU 660 FT	600	1.50		3	929.670	**6064523**

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 60 = heavy-duty cable tray system, unperforated, with 60 mm side height.

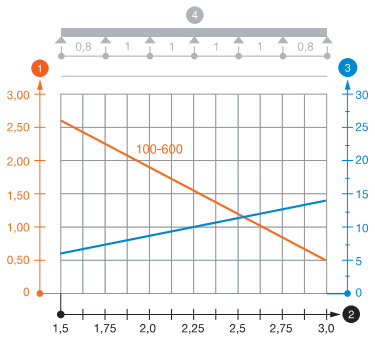
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSU 610 FT	3000	100	58
SKSU 620 FT	3000	200	118
SKSU 630 FT	3000	300	178
SKSU 640 FT	3000	400	238
SKSU 650 FT	3000	500	298
SKSU 660 FT	3000	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKSU 610 FT	2.6	1.9	1.1	0.55
SKSU 620 FT	2.6	1.9	1.1	0.55
SKSU 630 FT	2.6	1.9	1.1	0.55
SKSU 640 FT	2.6	1.9	1.1	0.55
SKSU 650 FT	2.6	1.9	1.1	0.55
SKSU 660 FT	2.6	1.9	1.1	0.55

Load



Load diagram, cable tray, type SKSU 60

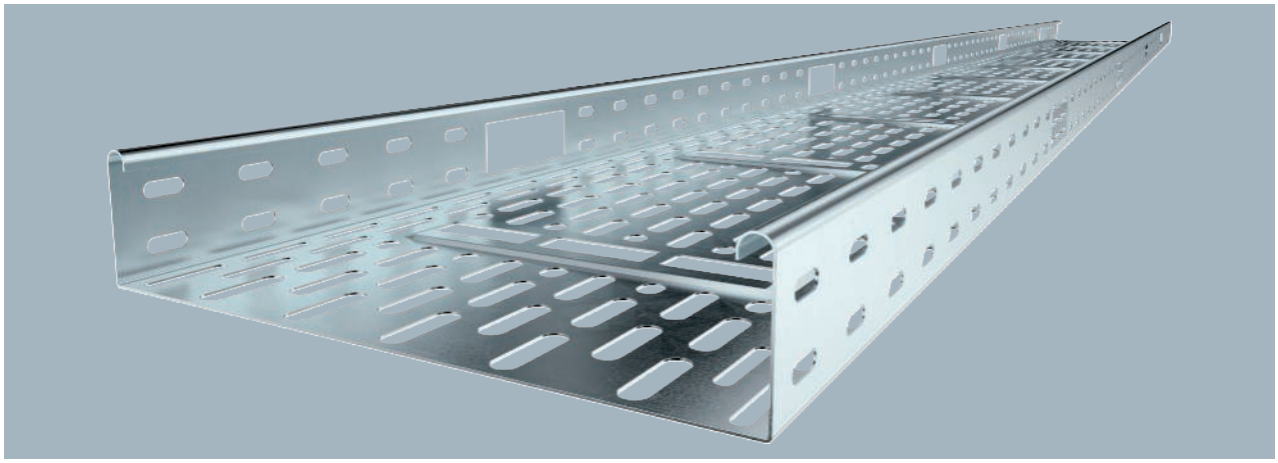
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

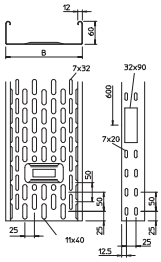
Cable tray IKS 60



Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm. Offset side holes every 300 mm.
Connecting parts should be ordered in the appropriate quantity.
IKS 60 = installation cable tray system with 60 mm side height.

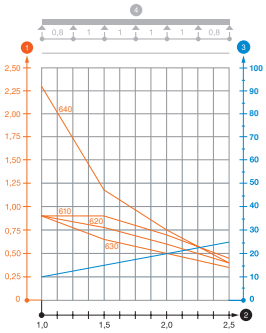
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
IKS 610 FS	100	1.00	3	155.340	**6087116**
IKS 620 FS	200	1.00	3	212.000	**6087132**
IKS 630 FS	300	1.00	3	260.721	**6087140**
IKS 640 FS	400	1.50	3	485.140	**6087159**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
IKS 610 FS	3000	100	58
IKS 620 FS	3000	200	118
IKS 630 FS	3000	300	178
IKS 640 FS	3000	400	238

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
IKS 610 FS	0.9	0.9	0.7	0.45
IKS 620 FS	0.9	0.77	0.6	0.4
IKS 630 FS	0.9	0.65	0.5	0.35
IKS 640 FS	2.3	1.17	0.75	0.4

Load diagram, cable tray, type IKS 60

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

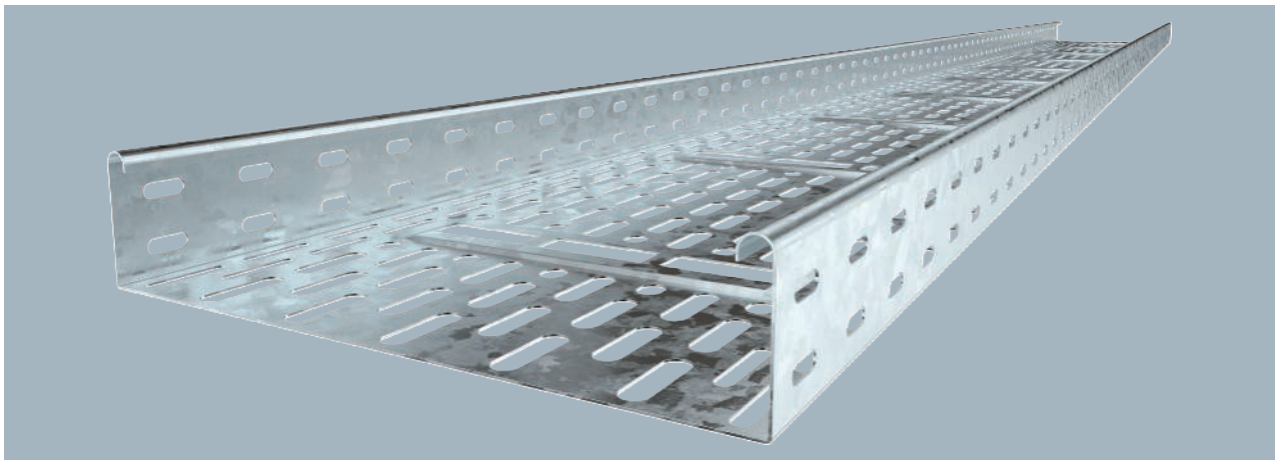
Always indicate the item number when ordering.

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Cable trays, side height 60

Cable tray DKS 60

St FT

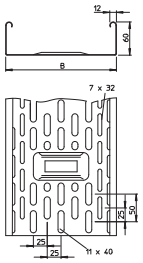


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
DKS 610 FT	100	1.00	3	175.667	**6085326**
DKS 620 FT	200	1.00	3	237.334	**6085342**
DKS 630 FT	300	1.00	3	295.000	**6085369**
DKS 640 FT	400	1.50	3	523.000	**6085512**
DKS 650 FT	500	1.50	3	607.000	**6085539**
DKS 660 FT	600	1.50	3	690.667	**6085555**

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 60 = perforated cable tray system with 60 mm side height.

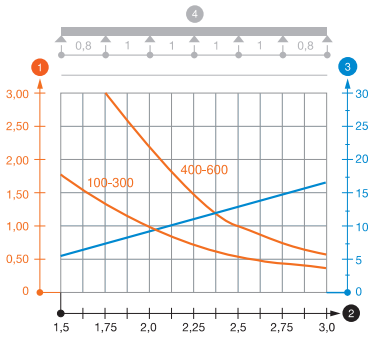
Type	Length mm	Dim. B mm	Usable cross-section cm²
DKS 610 FT	3000	100	58
DKS 620 FT	3000	200	118
DKS 630 FT	3000	300	178
DKS 640 FT	3000	400	238
DKS 650 FT	3000	500	298
DKS 660 FT	3000	600	358

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
DKS 610 FT	1.75	0.95	0.5	0.4
DKS 620 FT	1.75	0.95	0.5	0.4
DKS 630 FT	1.75	0.95	0.5	0.4
DKS 640 FT	3	2.25	1	0.65
DKS 650 FT	3	2.25	1	0.65
DKS 660 FT	3	2.25	1	0.65

Load



Load diagram, cable tray, type DKS 60

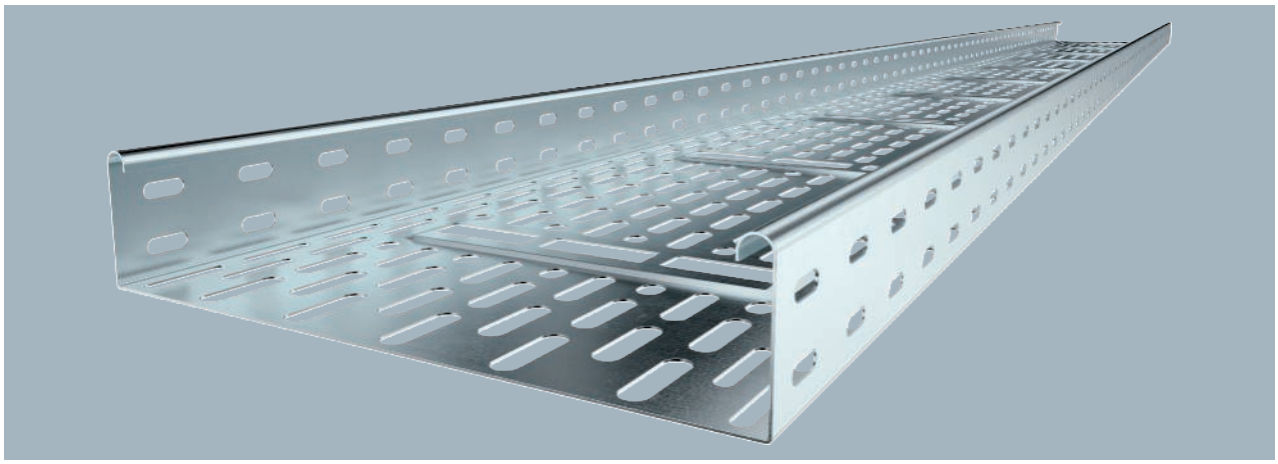
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

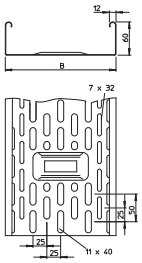
Cable tray DKS 60



Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 60 = perforated cable tray system with 60 mm side height.

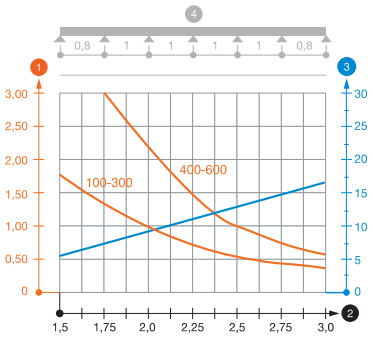
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
DKS 610 FS	100	1.00	3	161.000	**6085016**
DKS 620 FS	200	1.00	3	217.677	**6085032**
DKS 630 FS	300	1.00	3	270.667	**6085059**
DKS 640 FS	400	1.50	3	493.334	**6085202**
DKS 650 FS	500	1.50	3	572.340	**6085229**
DKS 660 FS	600	1.50	3	651.334	**6085245**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
DKS 610 FS	3000	100	58
DKS 620 FS	3000	200	118
DKS 630 FS	3000	300	178
DKS 640 FS	3000	400	238
DKS 650 FS	3000	500	298
DKS 660 FS	3000	600	358

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
DKS 610 FS	1.75	0.95	0.5	0.4
DKS 620 FS	1.75	0.95	0.5	0.4
DKS 630 FS	1.75	0.95	0.5	0.4
DKS 640 FS	3	2.25	1	0.65
DKS 650 FS	3	2.25	1	0.65
DKS 660 FS	3	2.25	1	0.65

Load diagram, cable tray, type DKS 60

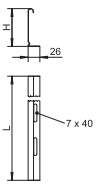
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FS DD

Separating retainer 45

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 FS	45	0.75	3000	3	46.700	**6062033**
TSG 45 DD	45	0.75	3000	3	46.812	**6062321**





Separating retainer for separation of cables of different voltages or functions.

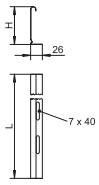
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Cable trays, side height 60

Separating retainer 45

A2 2B





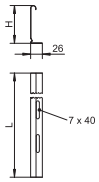
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	49.850	**6062025**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 60

St FS DD





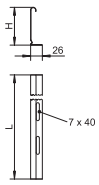
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 FS	60	0.75	3000	3	55.700	**6062068**
TSG 60 DD	60	0.75	3000	3	55.700	**6062327**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 60

A2 2B





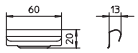
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 A2	60	0.75	3000	3	59.265	**6062084**

Separating retainer for the separation of cables of different voltages or functions.

Separating retainer connector

VA 2B



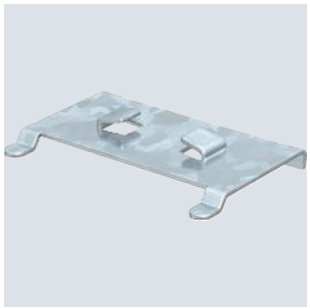


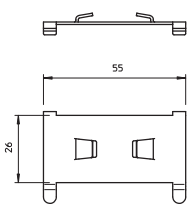
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Clamping piece for barrier strips fastening in MKS/SKS

St FS





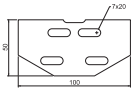
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS MKS SKS FS	100	1.200	**6062300**

Clamping piece for screwless fastening of barrier strips.
Use in cable trays, types MKS, SKS, EKS.

St FS

Straight connector 60, vertical

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVKV 60 FS	60	10	4.550	**6067101**



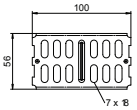


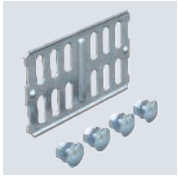
The vertical straight connector can be used to connect cable trays with the side height 60 mm. Mitre joints that rise and fall up to an angle of 60° can also be realised with this connector.
The screw fastening ensures the continuity of the equipotential bonding.

St FS FT

Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 FS	60	10	9.976	**6067093**
RLVK 60 FT	60	10	10.300	**6067603**



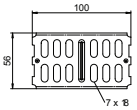


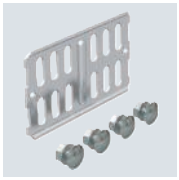
Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

A2 2B

Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVK 60 A2	60	10	9.780	**6067654**



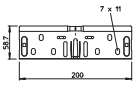


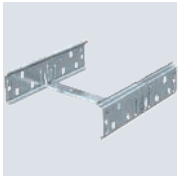
Straight connector for straight connection of cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

St FS

Straight connector set 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RV 605 FS	60	50	10	18.100	**6068146**
RV 607 FS	60	75	10	18.800	**6068150**
RV 610 FS	60	100	10	19.400	**6068154**
RV 615 FS	60	150	10	20.700	**6068162**
RV 620 FS	60	200	10	20.900	**6068170**
RV 630 FS	60	300	10	24.500	**6068189**
RV 640 FS	60	400	10	32.200	**6068197**
RV 650 FS	60	500	10	36.200	**6068200**
RV 660 FS	60	600	10	39.200	**6068219**



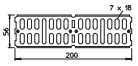


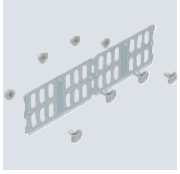
Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.
The continuous earthing connection is guaranteed without a screw connection.

St FS FT

Straight and angle connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 FS	60	10	16.400	**6067115**
RWVL 60 FT	60	10	17.400	**6067611**





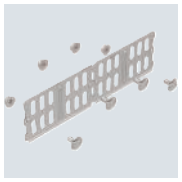
Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

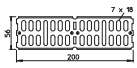
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Cable trays, side height 60

Straight and angle connector 60

A2 2B





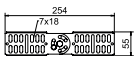
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RWVL 60 A2	60	10	16.200	**6067662**

Straight and angle connector for cable trays and fittings with a side height of 60 mm.
Including appropriate fastening material.

Adjustable connector 60

St FS FT





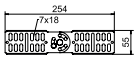
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 FS	60	10	25.100	**7082010**
RGV 60 FT	60	10	23.890	**7082223**

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Adjustable connector 60

A2 2B





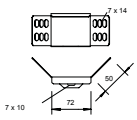
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 60 A2	60	10	25.100	**7082258**

Adjustable connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Angle connector 60

St FS FT





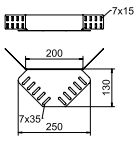
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WKV 60 FS	60	5	14.700	**6043062**
WKV 60 FT	60	5	15.800	**6042910**

Angle connector for cable trays with a side height of 60 mm.
Including appropriate fastening material.

Corner connector 60

St FS DD





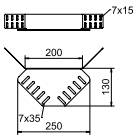
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 FS	60	10	32.000	**6067972**
REV 60 DD	60	1	32.000	**6069410**

Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

A2 2B

Corner connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 60 A2	60	5	32.000	6068022



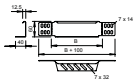


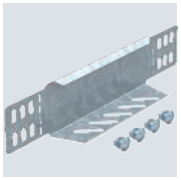
Corner connector for cable trays with side height 60 mm.
Fastening materials should be ordered separately.

St FS DD

Reducer/stop-end 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 610 FS	60	100	1	12.300	7109105
RWEB 615 FS	60	150	1	17.600	7109156
RWEB 620 FS	60	200	1	22.800	7109202
RWEB 630 FS	60	300	1	30.700	7109296
RWEB 640 FS	60	400	1	39.600	7109407
RWEB 650 FS	60	500	1	47.500	7109504
RWEB 660 FS	60	600	1	55.500	7109601
RWEB 605 DD	60	50	1	9.337	7107145
RWEB 610 DD	60	100	1	12.300	7106106
RWEB 615 DD	60	150	1	17.900	7106110
RWEB 620 DD	60	200	1	22.600	7106114
RWEB 630 DD	60	300	1	30.700	7106118
RWEB 640 DD	60	400	1	39.600	7106122
RWEB 650 DD	60	500	1	47.500	7106126
RWEB 660 DD	60	600	1	55.500	7106130



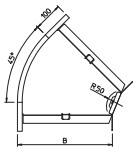


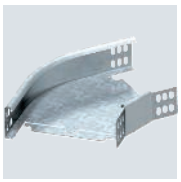
Reducer/stop-end plate for cable trays with side height 60 mm.
From a width of 150 mm, a perforated lower flange is available.
Including appropriate fastening material.

St FS FT

45° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 610 FS	60	100	1	57.600	6043763
RB 45 615 FS	60	150	1	66.800	6043755
RB 45 620 FS	60	200	1	80.800	6043771
RB 45 630 FS	60	300	1	112.900	6043798
RB 45 610 FT	60	100	1	62.000	7066112
RB 45 615 FT	60	150	1	72.200	7066158
RB 45 620 FT	60	200	1	87.400	7066228
RB 45 630 FT	60	300	1	122.700	7066317



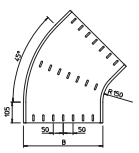


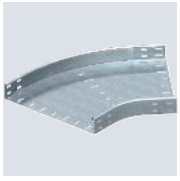
45° bend, horizontal, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. The WKV 60 angle connector is designed for 90° bends and can be adjusted to 45° on site.
Including appropriate fastening material.

St FS FT

45° bend 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 45 640 FS	60	400	1	301.000	7000383
RB 45 650 FS	60	500	1	385.900	7000405
RB 45 660 FS	60	600	1	480.400	7000421
RB 45 640 FT	60	400	1	301.000	7066406
RB 45 650 FT	60	500	1	412.800	7066503
RB 45 660 FT	60	600	1	515.600	7066600





45° bend, horizontal, for all cable tray types of 60 mm side height.
Fastening materials should be ordered separately.

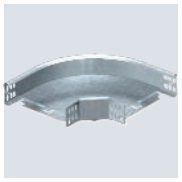
Always indicate the item number when ordering.

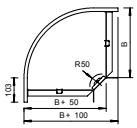
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Cable trays, side height 60

90° bend 60

St FS FT





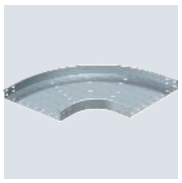
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 610 FS	60	100	1	71.900	**6043216**
RB 90 615 FS	60	150	1	88.400	**6043208**
RB 90 620 FS	60	200	1	110.300	**6043224**
RB 90 630 FS	60	300	1	167.400	**6043232**
RB 90 610 FT	60	100	1	77.600	**7125100**
RB 90 615 FT	60	150	1	89.500	**7125189**
RB 90 620 FT	60	200	1	119.600	**7125220**
RB 90 630 FT	60	300	1	181.200	**7125305**

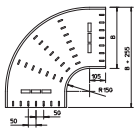
90° bend, horizontal, for all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

90° bend 60

St FS FT





Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 640 FS	60	400	1	472.300	**7001290**
RB 90 650 FS	60	500	1	527.000	**7001304**
RB 90 660 FS	60	600	1	680.000	**7001312**
RB 90 640 FT	60	400	1	507.000	**7125410**
RB 90 650 FT	60	500	1	559.000	**7125526**
RB 90 660 FT	60	600	1	721.500	**7125585**

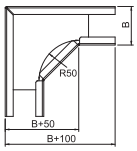
90° bend, horizontal, for all cable tray types of 60 mm side height.

Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

90° bend

St FS





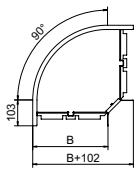
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 605 FS	60	50	1	39.300	**7124430**

90° bend for horizontal routing of cable trays, type RKS 605.

90° bend 60

A2 2B





Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 610 A2	60	100	1	125.000	**7134122**
RB 90 620 A2	60	200	1	110.400	**7134130**
RB 90 630 A2	60	300	1	166.600	**7134138**

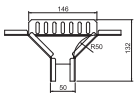
90° bend, horizontal, for all cable tray types of 60 mm side height.
The 100 mm width has a rectangle shape and does not correspond to the image.

The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS

Add-on tee 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 605 FS	60	50	1	30.000	**7120460**



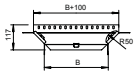


Add-on tee for horizontal routing of cable trays, type RKS 605.

St FS FT

Add-on tee 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 610 FS	60	100	1	44.200	**6040403**
RAA 615 FS	60	150	1	40.100	**6040411**
RAA 620 FS	60	200	1	53.100	**6040438**
RAA 630 FS	60	300	1	61.900	**6040446**
RAA 610 FT	60	100	1	47.700	**7121109**
RAA 615 FT	60	150	1	43.400	**7121205**
RAA 620 FT	60	200	1	57.500	**7121210**
RAA 630 FT	60	300	1	67.100	**7121318**



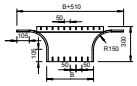


Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS FT

Add-on tee 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 640 FS	60	400	1	220.000	**7002394**
RAA 650 FS	60	500	1	255.000	**7002416**
RAA 660 FS	60	600	1	285.000	**7002432**
RAA 640 FT	60	400	1	240.000	**7121407**
RAA 650 FT	60	500	1	280.000	**7121504**
RAA 660 FT	60	600	1	310.000	**7121601**



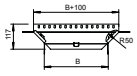


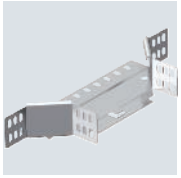
Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
Fastening materials should be ordered separately.

A2 2B

Add-on tee 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 610 A2	60	100	1	44.200	**7136120**
RAA 620 A2	60	200	1	53.200	**7136133**
RAA 630 A2	60	300	1	61.500	**7136141**





Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

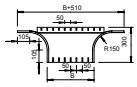
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Cable trays, side height 60

Add-on tee 60

A2 2B



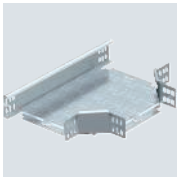


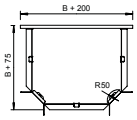
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 640 A2	60	400	1	220.000	**7136242**
RAA 650 A2	60	500	1	255.000	**7136250**
RAA 660 A2	60	600	1	285.000	**7136269**

Add-on tee for horizontal and vertical use. For all cable tray types of 60 mm side height.
Fastening materials should be ordered separately.

T branch piece 60

St FT



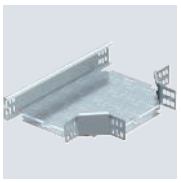


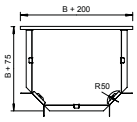
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 610 FT	60	100	1	89.900	**7117116**
RT 615 FT	60	150	1	109.000	**7117162**
RT 620 FT	60	200	1	144.800	**7117209**
RT 630 FT	60	300	1	215.900	**7117306**

Horizontal T branch piece, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

T branch piece 60

St FS



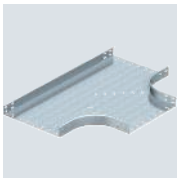


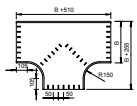
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 610 FS	60	100	1	83.200	**6043410**
RT 615 FS	60	150	1	101.000	**6043402**
RT 620 FS	60	200	1	133.200	**6043429**
RT 630 FS	60	300	1	198.200	**6043437**

Horizontal T branch piece, for all cable tray types of 60 mm side height.
The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

T branch piece 60

St FT





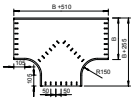
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 640 FT	60	400	1	746.000	**7117396**
RT 650 FT	60	500	1	804.500	**7117507**
RT 660 FT	60	600	1	1,001.700	**7117604**

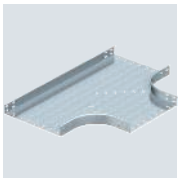
Horizontal T branch piece, for all cable tray types of 60 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.
Fastening materials should be ordered separately.

St FS

T branch piece 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 640 FS	60	400	1	697.000	7003390
RT 650 FS	60	500	1	804.000	7003412
RT 660 FS	60	600	1	1,001.000	7003439





Horizontal T branch piece, for all cable tray types of 60 mm side height.

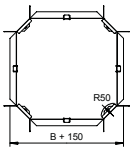
Fitting in round design. The interior radius of the fitting is 150 mm. All the sides are designed for the same cable tray width.

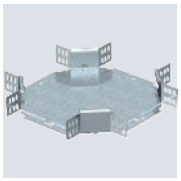
Fastening materials should be ordered separately.

St FT

Cross-over 60

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 610 FT	60	100	1	97.000	7113110
RK 620 FT	60	200	1	148.300	7113218
RK 630 FT	60	300	1	216.000	7113315





Horizontal cross-over for all cable tray types of 60 mm side height.

The fitting is shipped in an unmounted state. All the sides are designed for the same cable tray width.
Including appropriate fastening material.

St FS FT

90° adjustable bend, vertical 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 615 FS	60	150	1	200.000	7006330
RGBV 610 FT	60	100	1	186.000	7079109
RGBV 615 FT	60	150	1	200.000	7079141





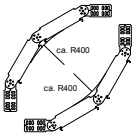
The bend is shipped in an unmounted state. No additional fastening materials are required.

90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

A2 2B

90° adjustable bend, vertical 60

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 610 A2	60	100	1	182.000	7138113





The bend is shipped in an unmounted state. No additional fastening materials are required.

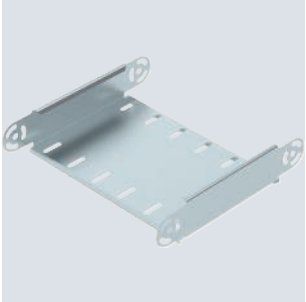
90° adjustable vertical bend, for all cable tray types with a side height of 60 mm.

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Cable trays, side height 60

Adjustable bend element, vertical 60

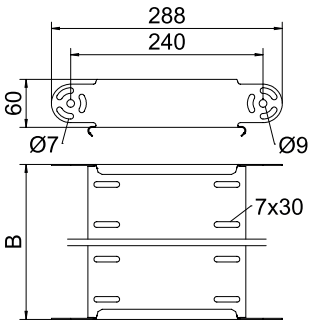
St FS



Type	Side height mm		Pack Piece	Weight kg/100 pc.	Item no.
RGBEV 610 FS	60		1	48.100	**7005326**
RGBEV 615 FS	60		1	63.700	**7005334**
RGBEV 620 FS	60		1	63.600	**7005342**
RGBEV 630 FS	60		1	80.400	**7005369**
RGBEV 640 FS	60		1	114.000	**7005385**
RGBEV 650 FS	60		1	134.000	**7005407**
RGBEV 660 FS	60		1	155.900	**7005423**

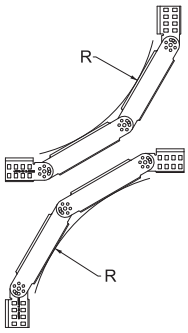
Adjustable vertical bend element, for all cable tray types with a side height of 60 mm.
RGV 60 adjustable connectors should be ordered separately and in the appropriate quantity.

Dimensions



Type	Dim. B mm	Metal thick-ness mm
RGBEV 610 FS	100	1.00
RGBEV 615 FS	150	1.00
RGBEV 620 FS	200	1.00
RGBEV 630 FS	300	1.00
RGBEV 640 FS	400	1.00
RGBEV 650 FS	500	1.00
RGBEV 660 FS	600	1.00

Installation



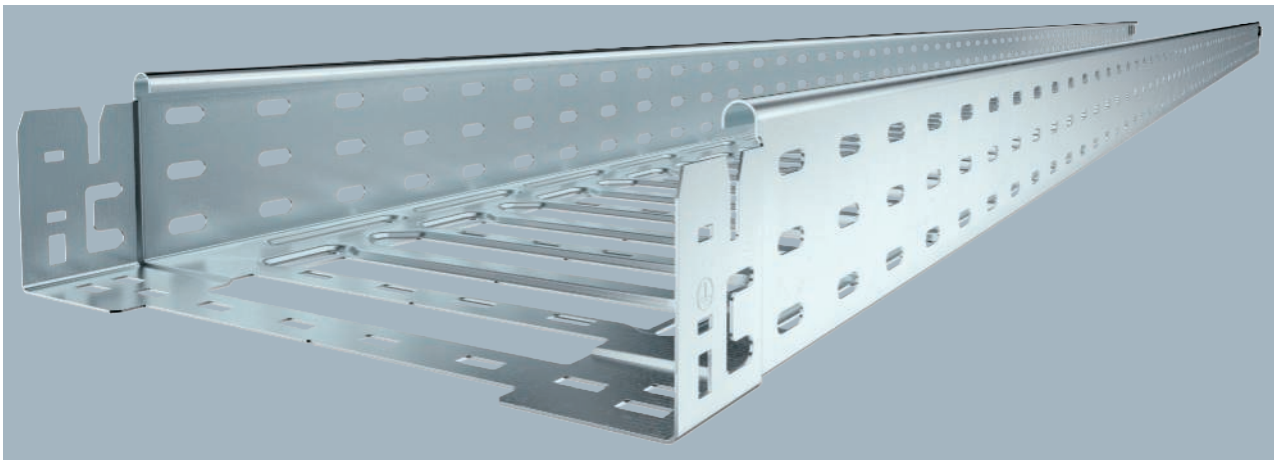
Radius table

Quantity of elements	Radius
1	approx. 300 mm
2	approx. 450 mm
3	approx. 600 mm
4	approx. 750 mm
5	approx. 900 mm

Please order two RGV 60 adjustable connectors separately.

St FS

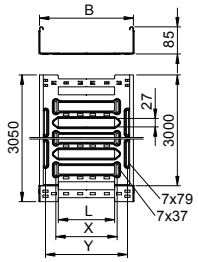
Cable tray MKS-Magic® 85



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

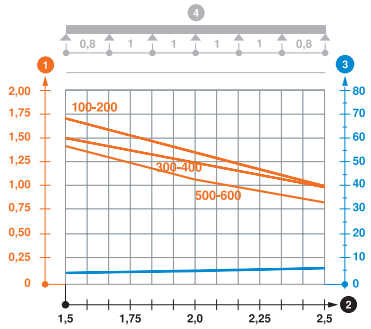
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
MKSM 810 FS	100	1.00	3	200.000	**6059080**
MKSM 820 FS	200	1.00	3	254.754	**6059084**
MKSM 830 FS	300	1.00	3	292.131	**6059086**
MKSM 840 FS	400	1.00	3	329.508	**6059088**
MKSM 850 FS	500	1.00	3	366.885	**6059090**
MKSM 860 FS	600	1.00	3	403.934	**6059092**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
MKSM 810 FS	3050	100	83	30	–	62
MKSM 820 FS	3050	200	186	80	96	162
MKSM 830 FS	3050	300	253	180	196	262
MKSM 840 FS	3050	400	338	280	296	362
MKSM 850 FS	3050	500	423	380	396	462
MKSM 860 FS	3050	600	508	480	496	562

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 810 FS	1.7	1.35	1
MKSM 820 FS	1.7	1.35	1
MKSM 830 FS	1.5	1.25	1
MKSM 840 FS	1.5	1.25	1
MKSM 850 FS	1.4	1.1	0.85
MKSM 860 FS	1.4	1.1	0.85

Load diagram, cable tray, type MKSM 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

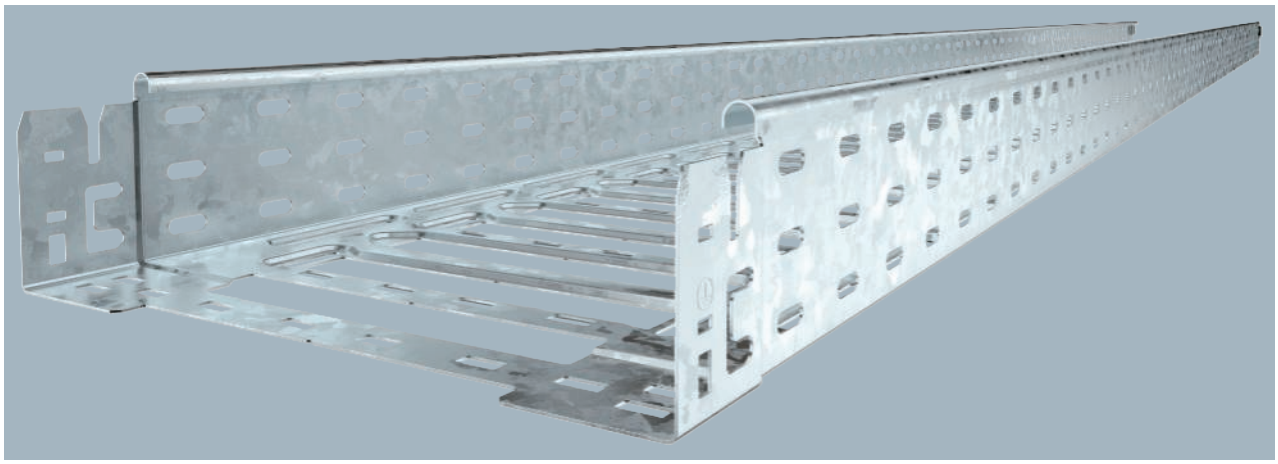
Always indicate the item number when ordering.

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Cable trays, side height 85

Cable tray MKS-Magic® 85

St FT

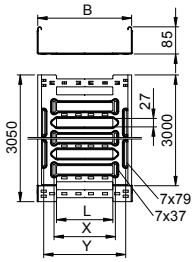


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSM 810 FT	100	1.00	3	218.032	**6059097**
MKSM 820 FT	200	1.00	3	277.704	**6059101**
MKSM 830 FT	300	1.00	3	318.688	**6059103**
MKSM 840 FT	400	1.00	3	359.344	**6059105**
MKSM 850 FT	500	1.00	3	400.000	**6059107**
MKSM 860 FT	600	1.00	3	440.327	**6059109**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

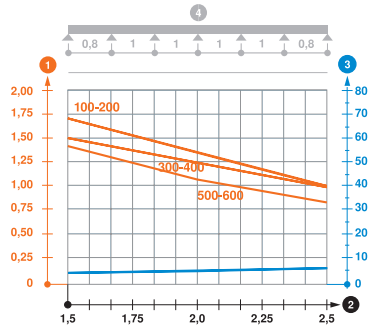
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dim-en-sion y mm
MKSM 810 FT	3050	100	83	30	–	62
MKSM 820 FT	3050	200	186	80	96	162
MKSM 830 FT	3050	300	253	180	196	262
MKSM 840 FT	3050	400	338	280	296	362
MKSM 850 FT	3050	500	423	380	396	462
MKSM 860 FT	3050	600	508	480	496	562

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSM 810 FT	1.7	1.35	1
MKSM 820 FT	1.7	1.35	1
MKSM 830 FT	1.5	1.25	1
MKSM 840 FT	1.5	1.25	1
MKSM 850 FT	1.4	1.1	0.85
MKSM 860 FT	1.4	1.1	0.85

Load



Load diagram, cable tray, type MKSM 85

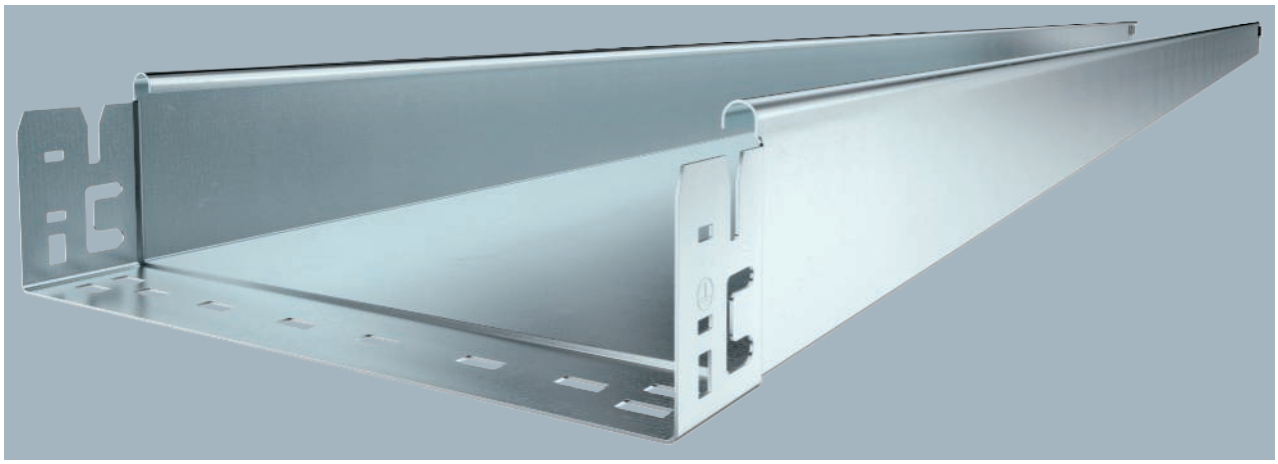
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

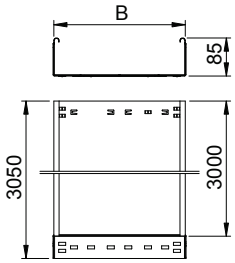
Cable tray MKS-Magic® 85, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

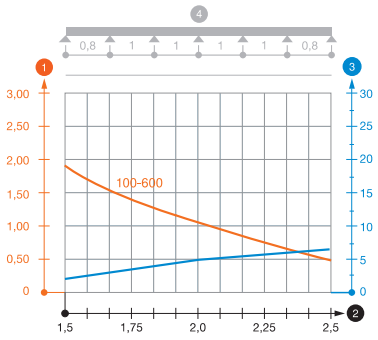
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 810 FS	100	1.00	3	230.721	**6059308**
MKSMU 820 FS	200	1.00	3	309.049	**6059312**
MKSMU 830 FS	300	1.00	3	387.508	**6059314**
MKSMU 840 FS	400	1.00	3	465.934	**6059316**
MKSMU 850 FS	500	1.00	3	544.360	**6059318**
MKSMU 860 FS	600	1.00	3	622.786	**6059320**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 810 FS	3050	100	83
MKSMU 820 FS	3050	200	186
MKSMU 830 FS	3050	300	253
MKSMU 840 FS	3050	400	338
MKSMU 850 FS	3050	500	423
MKSMU 860 FS	3050	600	508

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 810 FS	1.75	1.1	0.5
MKSMU 820 FS	1.75	1.1	0.5
MKSMU 830 FS	1.75	1.1	0.5
MKSMU 840 FS	1.75	1.1	0.5
MKSMU 850 FS	1.75	1.1	0.5
MKSMU 860 FS	1.75	1.1	0.5

Load diagram, cable tray, type MKSMU 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

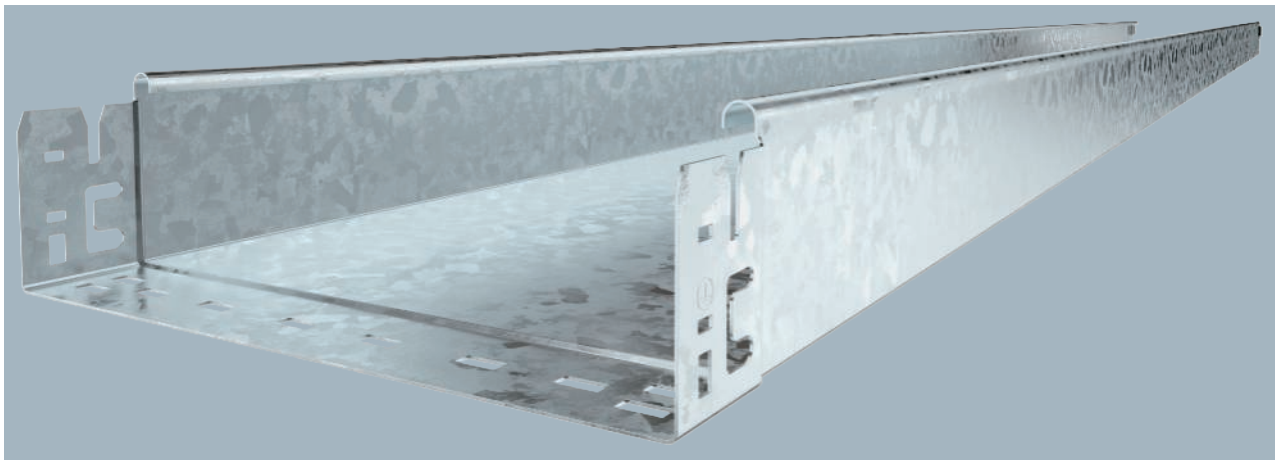
Always indicate the item number when ordering.

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Cable trays, side height 85

Cable tray MKS-Magic® 85, unperforated

St FT

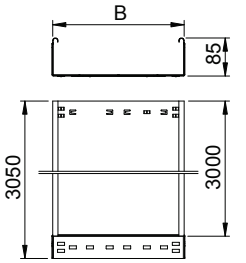


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 810 FT	100	1.00	3	253.606	**6059325**
MKSMU 820 FT	200	1.00	3	339.737	**6059329**
MKSMU 830 FT	300	1.00	3	426.000	**6059331**
MKSMU 840 FT	400	1.00	3	512.229	**6059333**
MKSMU 850 FT	500	1.00	3	598.459	**6059335**
MKSMU 860 FT	600	1.00	3	684.688	**6059337**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

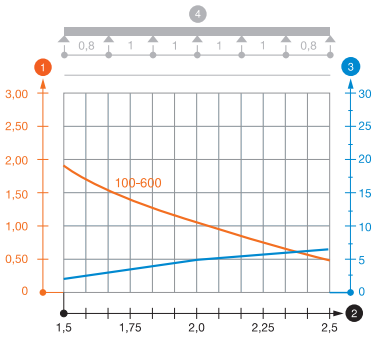
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 810 FT	3050	100	83
MKSMU 820 FT	3050	200	186
MKSMU 830 FT	3050	300	253
MKSMU 840 FT	3050	400	338
MKSMU 850 FT	3050	500	423
MKSMU 860 FT	3050	600	508

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKSMU 810 FT	1.75	1.1	0.5
MKSMU 820 FT	1.75	1.1	0.5
MKSMU 830 FT	1.75	1.1	0.5
MKSMU 840 FT	1.75	1.1	0.5
MKSMU 850 FT	1.75	1.1	0.5
MKSMU 860 FT	1.75	1.1	0.5

Load



Load diagram, cable tray, type MKSMU 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

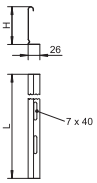
— Strut bend curve according to support width

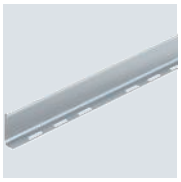
St FS DD

Separating retainer 85

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

Separating retainer for separation of cables of different voltages or functions.



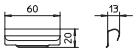


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



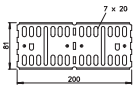


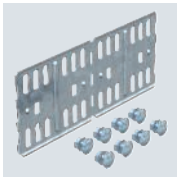
St FS FT

Straight and angle connector 85

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 85 FS	85	10	27.300	6067123
RLVL 85 FT	85	10	28.300	6067816

Straight and angle connector for cable trays and fittings with a side height of 85 mm.
Including appropriate fastening material.



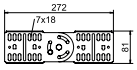


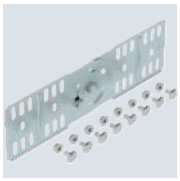
St FS FT

Adjustable connector 85

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 85 FS	85	10	44.100	7082029
RGV 85 FT	85	10	45.900	7082320

Adjustable connector for cable trays with a side height of 85 mm.
Including appropriate fastening material.



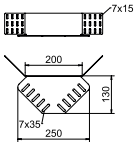


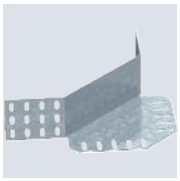
St FS

Corner connector 85

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 85 FS	85	10	61.000	6067980

Corner connector for cable trays with side height 85 mm.
Fastening materials should be ordered separately.



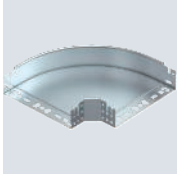


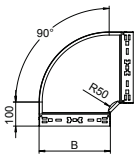
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Cable trays, side height 85

St FS

90° Magic bend 85



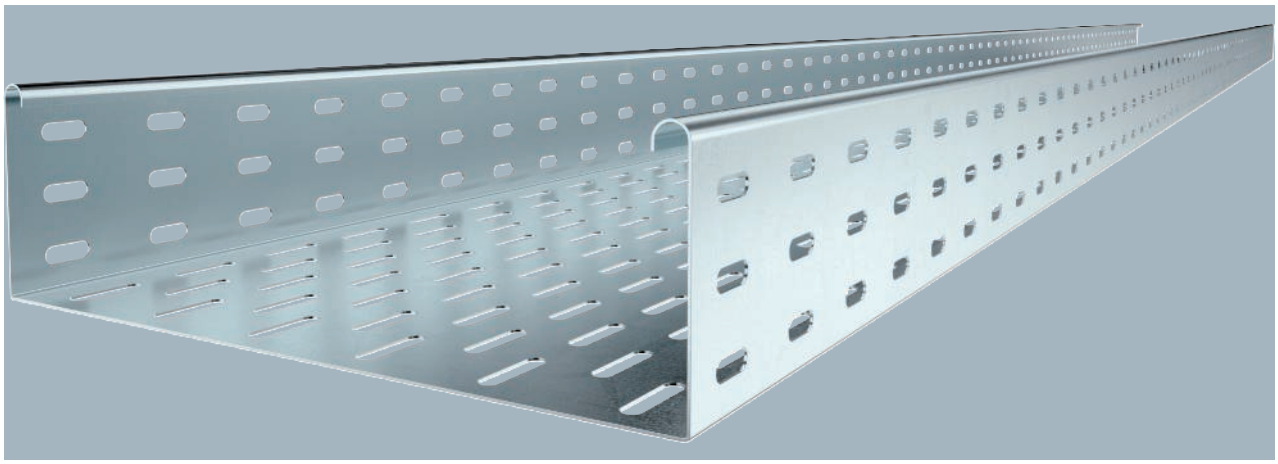


Type	Side height mm	Dim. B mm		Pack Piece	Weight kg/100 pc.	Item no.
RBM 90 810 FS	85	100		1	78.500	**6041490**

90° bend with quick connector system. For all cable tray types of 85 mm side height.

St FS

Cable tray MKS 85

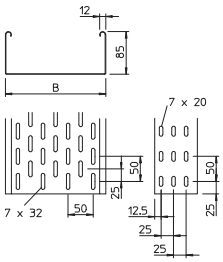


Including connector, type RLVL 85.

MKS 85 = medium-duty cable tray system with a side height of 85 mm.

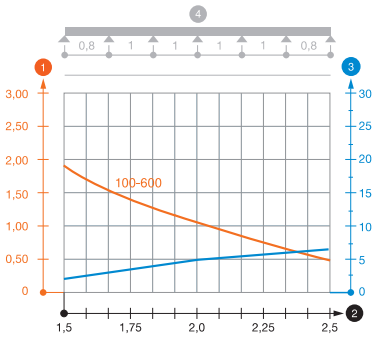
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKS 810 FS	100	1.00	3	207.670	**6057101**
MKS 820 FS	200	1.00	3	292.334	**6057209**
MKS 830 FS	300	1.00	3	357.667	**6057306**
MKS 840 FS	400	1.00	3	423.000	**6057403**
MKS 850 FS	500	1.00	3	488.000	**6057500**
MKS 860 FS	600	1.00	3	553.000	**6057535**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 810 FS	3000	100	83
MKS 820 FS	3000	200	186
MKS 830 FS	3000	300	253
MKS 840 FS	3000	400	338
MKS 850 FS	3000	500	423
MKS 860 FS	3000	600	508

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
MKS 810 FS	1.75	1.1	0.5
MKS 820 FS	1.75	1.1	0.5
MKS 830 FS	1.75	1.1	0.5
MKS 840 FS	1.75	1.1	0.5
MKS 850 FS	1.75	1.1	0.5
MKS 860 FS	1.75	1.1	0.5

Load diagram, cable tray, type MKS 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

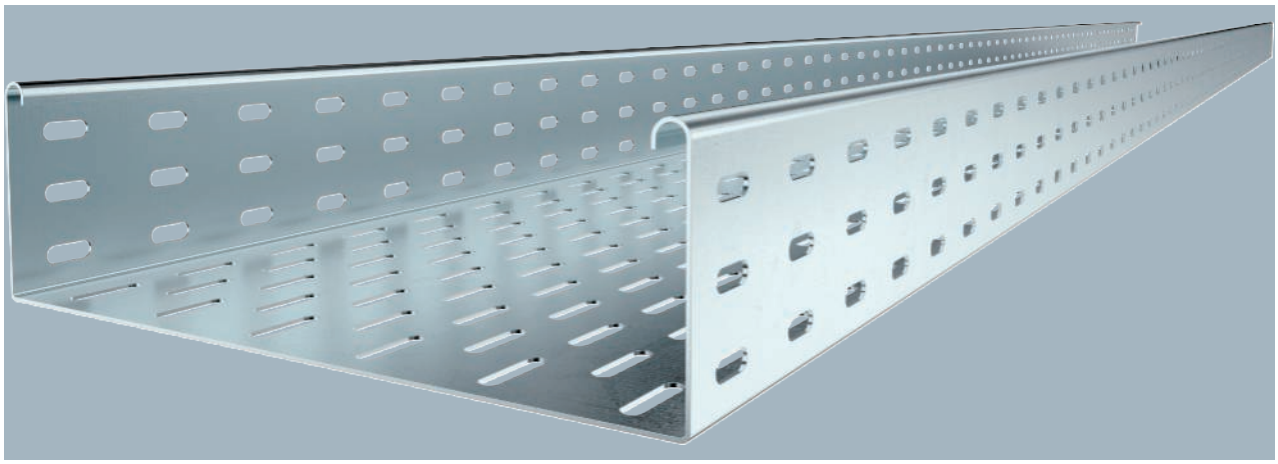
* From width 300 mm, tested with joint plate SSLB

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Cable trays, side height 85

Cable tray SKS 85

St FS

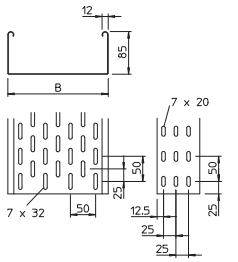


Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
SKS 810 FS	100	1.50		3	310.340	**6058108**
SKS 820 FS	200	1.50		3	429.000	**6058205**
SKS 830 FS	300	1.50		3	527.000	**6058302**
SKS 840 FS	400	1.50		3	624.000	**6058396**
SKS 850 FS	500	1.50		3	721.667	**6058507**
SKS 860 FS	600	1.50		3	821.000	**6058604**

FS version includes connector, type RLVL 85.
SKS 85 = heavy-duty cable tray system with 85 mm side height.

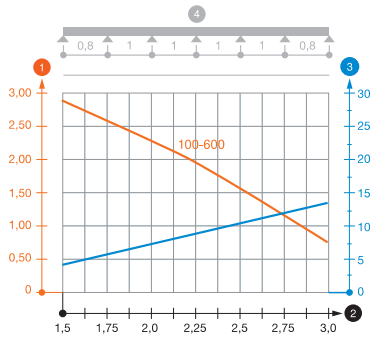
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 810 FS	3000	100	83
SKS 820 FS	3000	200	186
SKS 830 FS	3000	300	253
SKS 840 FS	3000	400	338
SKS 850 FS	3000	500	423
SKS 860 FS	3000	600	508

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 810 FS	2.8	2.25	1.5	0.75
SKS 820 FS	2.8	2.25	1.5	0.75
SKS 830 FS	2.8	2.25	1.5	0.75
SKS 840 FS	2.8	2.25	1.5	0.75
SKS 850 FS	2.8	2.25	1.5	0.75
SKS 860 FS	2.8	2.25	1.5	0.75

Load



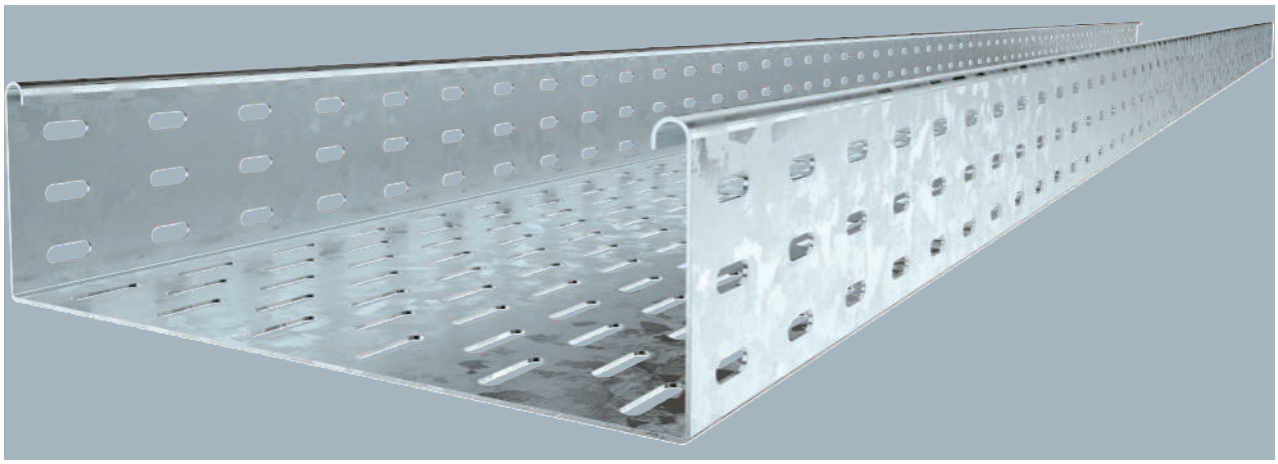
Load diagram, cable tray, type SKS 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

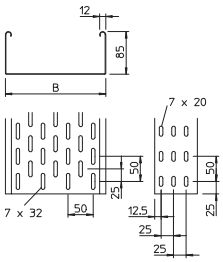
Cable tray SKS 85



SKS 85 = heavy-duty cable tray system with 85 mm side height.

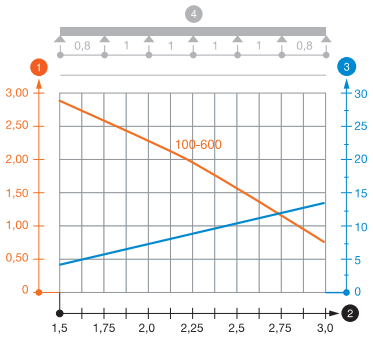
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKS 810 FT	100	1.50	3	334.000	**6058620**
SKS 820 FT	200	1.50	3	438.340	**6058647**
SKS 830 FT	300	1.50	3	543.000	**6058663**
SKS 840 FT	400	1.50	3	644.000	**6058698**
SKS 850 FT	500	1.50	3	750.340	**6058728**
SKS 860 FT	600	1.50	3	856.670	**6058744**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 810 FT	3000	100	83
SKS 820 FT	3000	200	186
SKS 830 FT	3000	300	253
SKS 840 FT	3000	400	338
SKS 850 FT	3000	500	423
SKS 860 FT	3000	600	508

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SKS 810 FT	2.8	2.25	1.5	0.75
SKS 820 FT	2.8	2.25	1.5	0.75
SKS 830 FT	2.8	2.25	1.5	0.75
SKS 840 FT	2.8	2.25	1.5	0.75
SKS 850 FT	2.8	2.25	1.5	0.75
SKS 860 FT	2.8	2.25	1.5	0.75

Load diagram, cable tray, type SKS 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

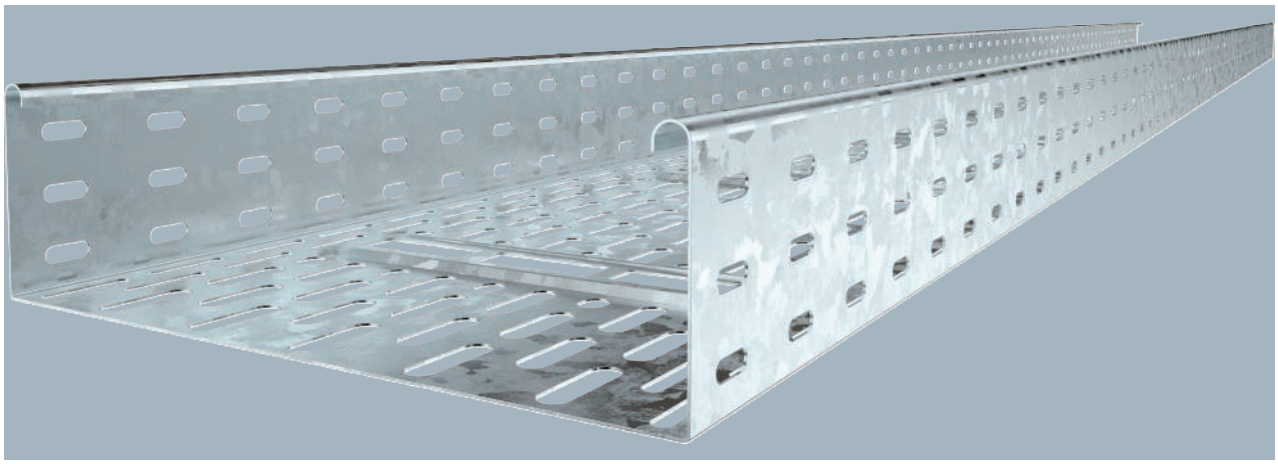
— Strut bend curve according to support width

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Cable trays, side height 85

Cable tray DKS 85

St FT

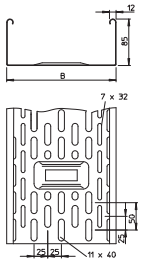


Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
DKS 820 FT	200	1.00		3	276.000	**6086497**

Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 85 = perforated cable tray system with 85 mm side height.

Type	Length mm	Width mm	Usable cross-section cm²
DKS 820 FT	3000	200	186

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
DKS 820 FT	2	1.1	0.65	0.5

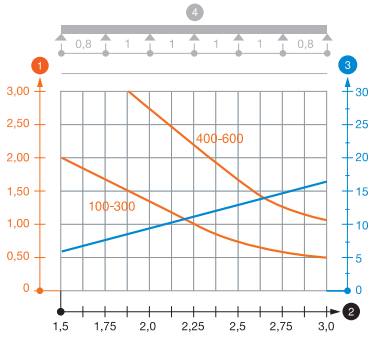
Load diagram, cable tray, type DKS 85

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

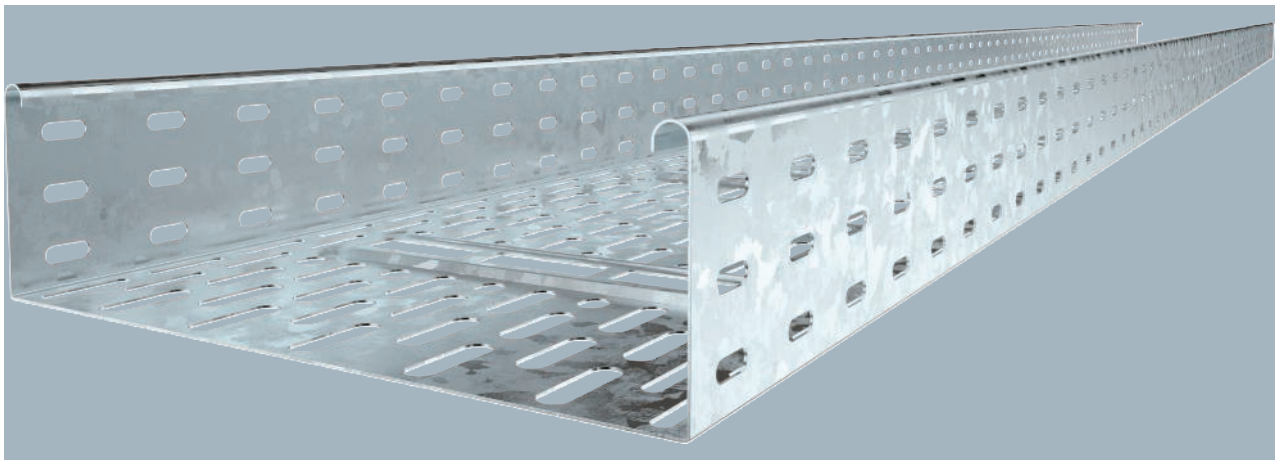
— Strut bend curve according to support width

Load



St FT

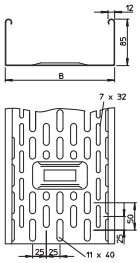
Cable tray DKS 85



Permeable cable tray system to VdS guideline 2092 with 30% hole surface for use under sprinkler systems.
Bottom penetration from width 200 mm.
Connecting parts should be ordered in the appropriate quantity.
DKS 85 = perforated cable tray system with 85 mm side height.

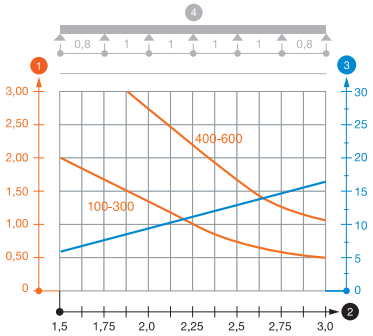
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
DKS 810 FT	100	1.00	3	215.600	**6086470**
DKS 830 FT	300	1.00	3	333.340	**6086519**
DKS 840 FT	400	1.50	3	580.400	**6086659**
DKS 850 FT	500	1.50	3	663.700	**6086675**
DKS 860 FT	600	1.50	3	746.967	**6086691**

Dimensions



Type	Length mm	Width mm	Usable cross-section cm²
DKS 810 FT	3000	100	83
DKS 830 FT	3000	300	253
DKS 840 FT	3000	400	338
DKS 850 FT	3000	500	423
DKS 860 FT	3000	600	508

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
DKS 810 FT	2	1.1	0.65	0.5
DKS 830 FT	2	1.1	0.65	0.5
DKS 840 FT	3	2.75	1.5	1.1
DKS 850 FT	3	2.75	1.5	1.1
DKS 860 FT	3	2.75	1.5	1.1

Load diagram, cable tray, type DKS 85

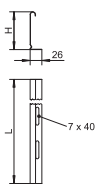
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FS DD

Separating retainer 60

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 60 FS	60	0.75	3000	3	55.700	**6062068**
TSG 60 DD	60	0.75	3000	3	55.700	**6062327**





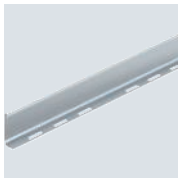
Separating retainer for separation of cables of different voltages or functions.

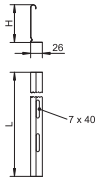
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Cable trays, side height 85

Separating retainer 85

St FS DD





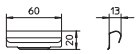
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B



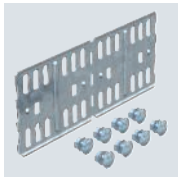


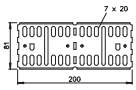
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Straight and angle connector 85

St FS FT



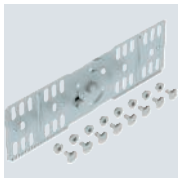


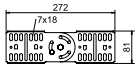
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 85 FS	85	10	27.300	**6067123**
RLVL 85 FT	85	10	28.300	**6067816**

Straight and angle connector for cable trays and fittings with a side height of 85 mm.
Including appropriate fastening material.

Adjustable connector 85

St FS FT



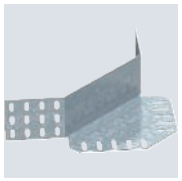


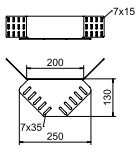
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 85 FS	85	10	44.100	**7082029**
RGV 85 FT	85	10	45.900	**7082320**

Adjustable connector for cable trays with a side height of 85 mm.
Including appropriate fastening material.

Corner connector 85

St FS





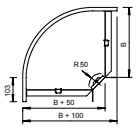
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 85 FS	85	10	61.000	**6067980**

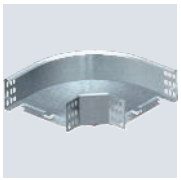
Corner connector for cable trays with side height 85 mm.
Fastening materials should be ordered separately.

St FS

90° bend 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 810 FS	85	100	1	65.000	**7001762**
RB 90 820 FS	85	200	1	150.000	**7001789**
RB 90 830 FS	85	300	1	180.000	**7001800**



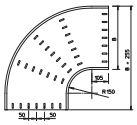


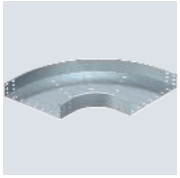
90° bend, horizontal, for all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS

90° bend 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 840 FS	85	400	1	500.000	**7001819**
RB 90 850 FS	85	500	1	650.000	**7001835**
RB 90 860 FS	85	600	1	820.000	**7001851**



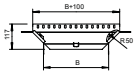


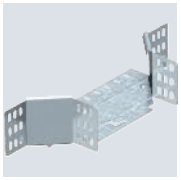
90° bend, horizontal, for all cable tray types of 85 mm side height.
Fastening materials should be ordered separately.

St FS

Add-on tee 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 810 FS	85	100	1	40.000	**7002475**
RAA 820 FS	85	200	1	45.000	**7002491**
RAA 830 FS	85	300	1	60.000	**7002513**



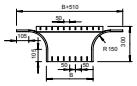


Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS

Add-on tee 85

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 840 FS	85	400	1	230.000	**7002521**
RAA 850 FS	85	500	1	265.000	**7002556**
RAA 860 FS	85	600	1	295.000	**7002572**



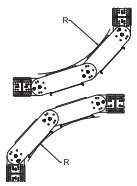


Add-on tee for horizontal and vertical use. For all cable tray types of 85 mm side height.
Fitting in round design. The interior radius of the fitting is 150 mm. Fastening materials should be ordered separately.

St FS

90° adjustable bend, vertical 110

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RGBV 110 FS	110	100	1	363.000	**7006624**
RGBV 115 FS	110	150	1	392.000	**7006632**
RGBV 120 FS	110	200	1	420.000	**7006640**
RGBV 130 FS	110	300	1	480.000	**7006667**
RGBV 140 FS	110	400	1	530.000	**7006683**
RGBV 150 FS	110	500	1	580.000	**7006705**
RGBV 160 FS	110	600	1	630.000	**7006717**





90° adjustable vertical bend, for all cable tray types with a side height of 110 mm.
The bend is shipped in an unmounted state. No additional fastening materials are required.

Always indicate the item number when ordering.

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Cable tray BKRS, side height 100

Cable tray BKRS 100

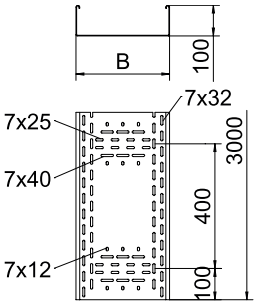
St FS



Type	Side height mm	Dim. H mm	Dim. B mm	Dim. L mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
BKRS 1010 FS	100	100	100	3000	2.00		3	469.800	**6062000**
BKRS 1020 FS	100	100	200	3000	2.00		3	614.567	**6062002**
BKRS 1030 FS	100	100	300	3000	2.00		3	761.267	**6062004**
BKRS 1040 FS	100	100	400	3000	2.00		3	908.000	**6062006**
BKRS 1050 FS	100	100	500	3000	2.00		3	1,054.700	**6062008**
BKRS 1060 FS	100	100	600	3000	2.00		3	1,201.400	**6062010**

Heavy-duty, walkable cable tray system BKRS with base perforation, in 100 mm side height.

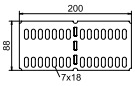
The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.



Universal connector 100 FS

St FS



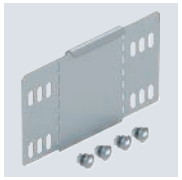


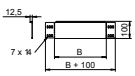
Type	Side height mm		Pack Piece	Weight kg/100 pc.	Item no.
RUVK 100 FS	100		10	22.100	**6067870**

Universal connector for horizontal straight and angle connections of walkable cable trays. In an angled state, with additional cable protection through flattened edges. Including fastening material.

Reducer/stop-end 100

St FS





Type	Side height mm	Dim. B mm		Pack Piece	Weight kg/100 pc.	Item no.
RWEB 1010 FS	100	100		1	13.600	**7111802**
RWEB 1020 FS	100	200		1	22.100	**7111804**
RWEB 1030 FS	100	300		1	30.600	**7111806**
RWEB 1040 FS	100	400		1	39.100	**7111808**
RWEB 1050 FS	100	500		1	47.600	**7111810**
RWEB 1060 FS	100	600		1	56.100	**7111812**

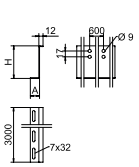
Reducer/stop-end for cable trays with side height 100 mm.

Including appropriate fastening material.

St FS

Barrier strip, Z-shaped 100

Type	Dim. H mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
TSG100Z BKRS FS	100	2.00	3000	3	187.667	**6062390**





Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts M6 x 12 in the base perforation.

For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used.
For widths of 500 mm or more, two barrier strips with a maximum compartment size of 220 mm should be used.

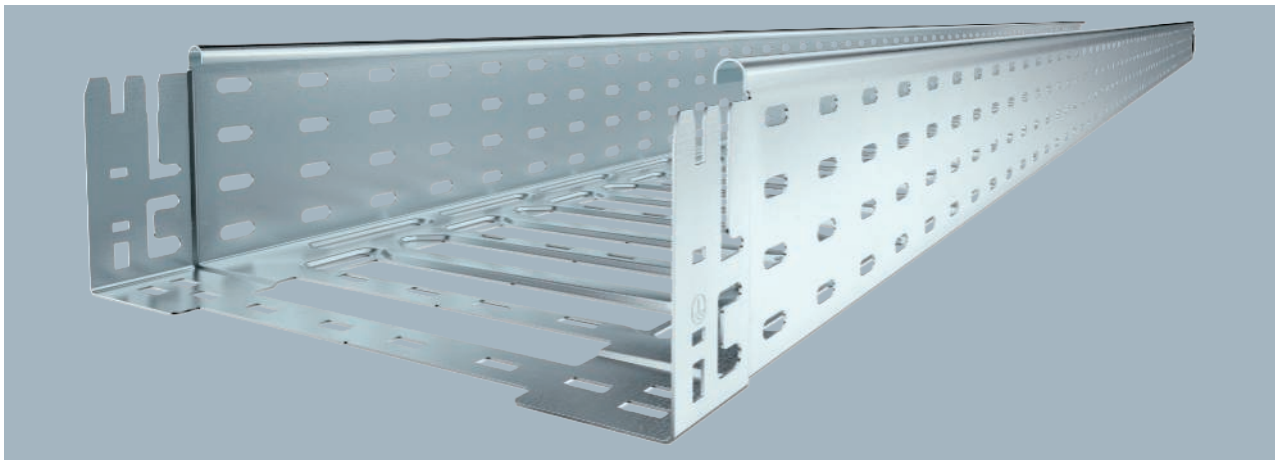
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Always indicate the item number when ordering.

Cable trays, side height 110

Cable tray MKS-Magic® 110

St FS

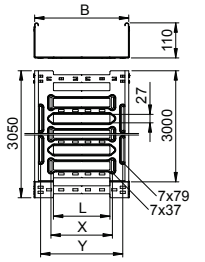


Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKSM 110 FS	100	1.00		3	236.819	**6059156**
MKSM 115 FS	150	1.00		3	274.426	**6059158**
MKSM 120 FS	200	1.00		3	293.114	**6059160**
MKSM 130 FS	300	1.00		3	331.081	**6059162**
MKSM 140 FS	400	1.00		3	369.049	**6059164**
MKSM 150 FS	500	1.00		3	406.983	**6059166**
MKSM 160 FS	600	1.00		3	444.983	**6059168**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

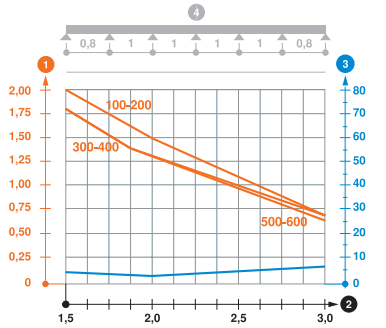
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dim-en-sion y mm
MKSM 110 FS	3050	100	108	30	–	62
MKSM 115 FS	3050	150	161	30	46	112
MKSM 120 FS	3050	200	218	80	96	162
MKSM 130 FS	3050	300	328	180	196	262
MKSM 140 FS	3050	400	438	280	296	362
MKSM 150 FS	3050	500	548	380	396	462
MKSM 160 FS	3050	600	655	480	496	562

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
MKSM 110 FS	2	1.5	0.7
MKSM 115 FS	2	1.5	0.7
MKSM 120 FS	2	1.5	0.7
MKSM 130 FS	1.8	1.3	0.7
MKSM 140 FS	1.8	1.3	0.7
MKSM 150 FS	1.8	1.3	0.65
MKSM 160 FS	1.8	1.3	0.65

Load

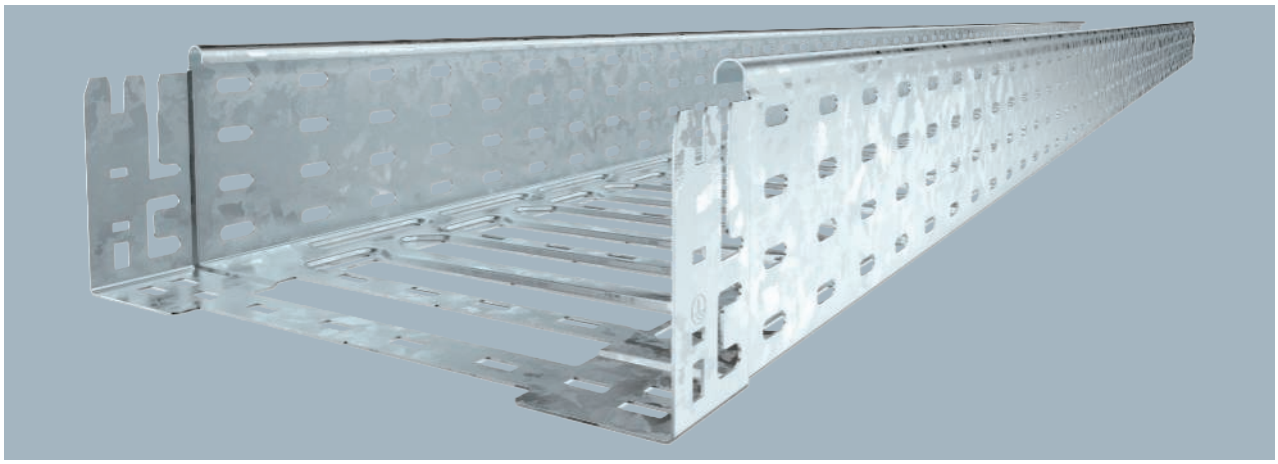


Load diagram, cable tray, type MKSM 110

1 Permitted cable tray/ladder load in kN/m without man load
2 Support width in m
3 Rail bend in mm at permitted kN/m
4 Load scheme during testing
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

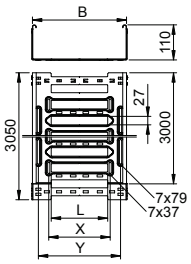
Cable tray MKS-Magic® 110



Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

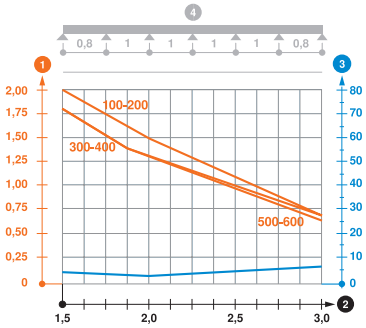
Type	Width mm	Metal thickness mm		Pack m	Weight kg/100 m	Item no.
MKSM 110 FT	100	1.00		3	260.327	**6059173**
MKSM 115 FT	150	1.00		3	301.672	**6059175**
MKSM 120 FT	200	1.00		3	322.229	**6059177**
MKSM 130 FT	300	1.00		3	363.967	**6059179**
MKSM 140 FT	400	1.00		3	405.737	**6059181**
MKSM 150 FT	500	1.00		3	447.442	**6059183**
MKSM 160 FT	600	1.00		3	489.180	**6059185**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dimension y mm
MKSM 110 FT	3050	100	108	30	–	62
MKSM 115 FT	3050	150	161	30	46	112
MKSM 120 FT	3050	200	218	80	96	162
MKSM 130 FT	3050	300	328	180	196	262
MKSM 140 FT	3050	400	438	280	296	362
MKSM 150 FT	3050	500	548	380	396	462
MKSM 160 FT	3050	600	655	480	496	562

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
MKSM 110 FT	2	1.5	0.7
MKSM 115 FT	2	1.5	0.7
MKSM 120 FT	2	1.5	0.7
MKSM 130 FT	1.8	1.3	0.7
MKSM 140 FT	1.8	1.3	0.7
MKSM 150 FT	1.8	1.3	0.65
MKSM 160 FT	1.8	1.3	0.65

Load diagram, cable tray, type MKSM 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

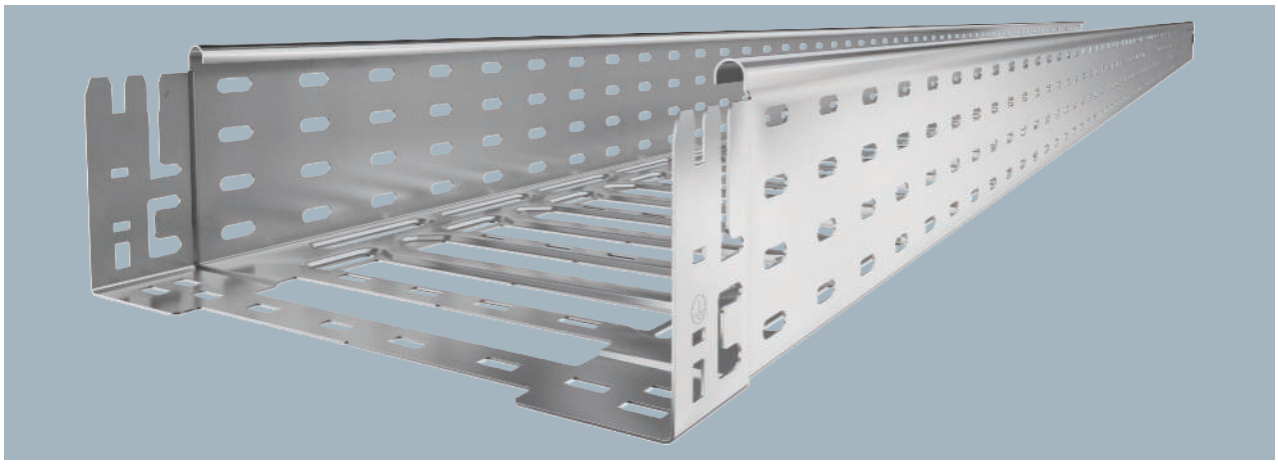
— Strut bend curve according to support width

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Cable trays, side height 110

Cable tray MKS-Magic® 110

A2 2B

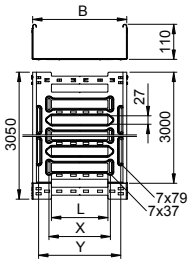


Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
MKSM 110 A2	100	1.00		3	236.820	**6059190**
MKSM 120 A2	200	1.00		3	298.000	**6059194**
MKSM 130 A2	300	1.00		3	336.600	**6059196**
MKSM 140 A2	400	1.00		3	375.200	**6059198**
MKSM 150 A2	500	1.00		3	413.767	**6059200**
MKSM 160 A2	600	1.00		3	452.400	**6059202**

Cable tray with integrated quick fastening system. The usable length of the cable tray is 3,000 mm.
The cable tray has continuous side perforations of 7 x 20 mm for the installation of additional connection and mounting components.
From a cable tray width of 200 mm with 30% hole surface, suitable for use under sprinkler systems according to VdS guideline 2092.

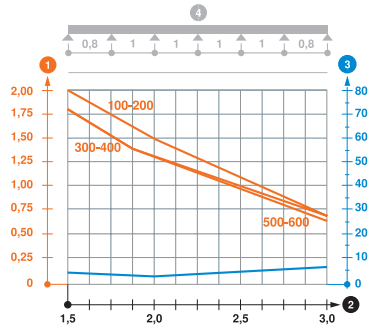
Type	Length mm	Dim. B mm	Usable cross-section cm²	Dim. L mm	Dim. x mm	Dim-en-sion y mm
MKSM 110 A2	3050	100	108	30	–	62
MKSM 120 A2	3050	200	218	80	96	162
MKSM 130 A2	3050	300	328	180	196	262
MKSM 140 A2	3050	400	438	280	296	362
MKSM 150 A2	3050	500	548	380	396	462
MKSM 160 A2	3050	600	655	480	496	562

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
MKSM 110 A2	2	1.5	0.7
MKSM 120 A2	2	1.5	0.7
MKSM 130 A2	1.45	1.2	0.7
MKSM 140 A2	1.45	1.2	0.7
MKSM 150 A2	1.1	0.95	0.65
MKSM 160 A2	1.1	0.95	0.65

Load



Load diagram, cable tray, type MKSM 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

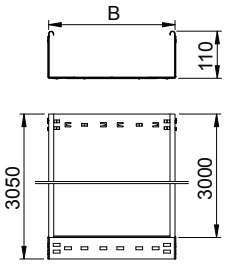
Cable tray MKS-Magic® 110, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

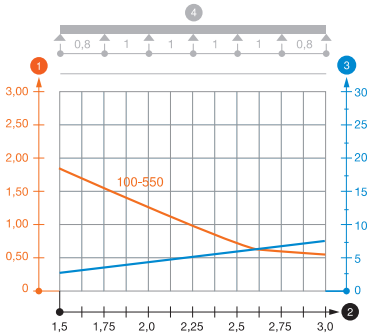
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 110 FS	100	1.00	3	269.672	**6059382**
MKSMU 115 FS	150	1.00	3	308.885	**6059384**
MKSMU 120 FS	200	1.00	3	348.032	**6059386**
MKSMU 130 FS	300	1.00	3	426.459	**6059388**
MKSMU 140 FS	400	1.00	3	504.918	**6059390**
MKSMU 150 FS	500	1.00	3	583.311	**6059392**
MKSMU 160 FS	600	1.00	3	661.770	**6059394**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 110 FS	3050	100	108
MKSMU 115 FS	3050	150	161
MKSMU 120 FS	3050	200	218
MKSMU 130 FS	3050	300	328
MKSMU 140 FS	3050	400	438
MKSMU 150 FS	3050	500	548
MKSMU 160 FS	3050	600	655

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKSMU 110 FS	1.85	1.3	0.75	0.6
MKSMU 115 FS	1.85	1.3	0.75	0.6
MKSMU 120 FS	1.85	1.3	0.75	0.6
MKSMU 130 FS	1.85	1.3	0.75	0.6
MKSMU 140 FS	1.85	1.3	0.75	0.6
MKSMU 150 FS	1.85	1.3	0.75	0.6
MKSMU 160 FS	1.85	1.3	0.75	0.6

Load diagram, cable tray, type MKSMU 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

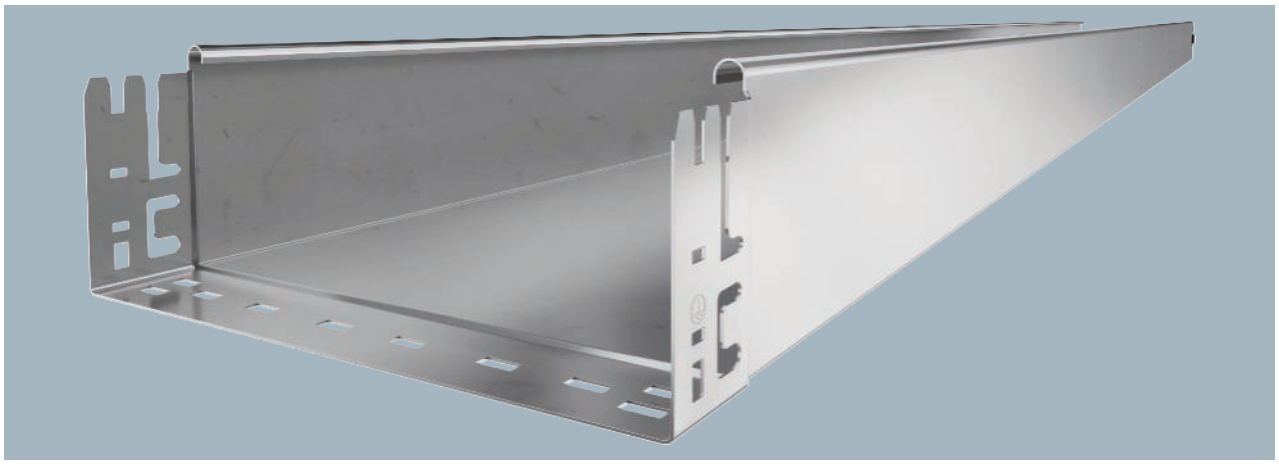
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

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Cable trays, side height 110

Cable tray MKS-Magic® 110, unperforated

A2 2B

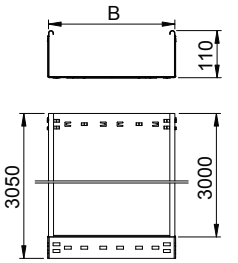


Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 110 A2	100	1.00	3	269.672	**6059416**
MKSMU 120 A2	200	1.00	3	353.833	**6059420**
MKSMU 130 A2	300	1.00	3	433.600	**6059422**
MKSMU 140 A2	400	1.00	3	513.333	**6059424**
MKSMU 150 A2	500	1.00	3	583.311	**6059426**
MKSMU 160 A2	600	1.00	3	672.800	**6059428**

Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

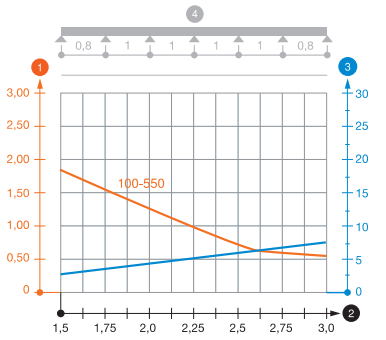
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKSMU 110 A2	3050	100	108
MKSMU 120 A2	3050	200	218
MKSMU 130 A2	3050	300	328
MKSMU 140 A2	3050	400	438
MKSMU 150 A2	3050	500	548
MKSMU 160 A2	3050	600	655

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKSMU 110 A2	1.85	1.3	0.75	0.6
MKSMU 120 A2	1.85	1.3	0.75	0.6
MKSMU 130 A2	1.85	1.3	0.75	0.6
MKSMU 140 A2	1.85	1.3	0.75	0.6
MKSMU 150 A2	1.85	1.3	0.75	0.6
MKSMU 160 A2	1.85	1.3	0.75	0.6

Load



Load diagram, cable tray, type MKSMU 110

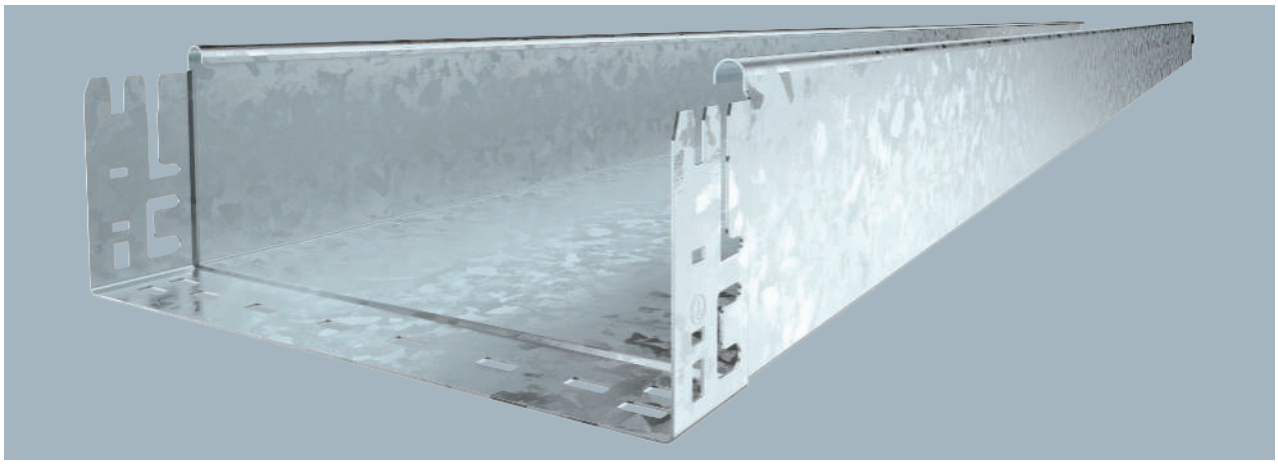
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

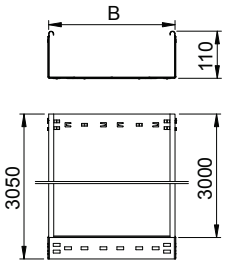
Cable tray MKS-Magic® 110, unperforated



Unperforated cable tray with integrated quick fastening system.
The usable length of the cable tray is 3,000 mm.

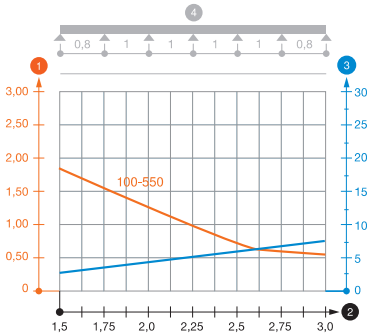
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKSMU 110 FT	100	1.00	3	296.459	**6059399**
MKSMU 115 FT	150	1.00	3	339.540	**6059401**
MKSMU 120 FT	200	1.00	3	382.590	**6059403**
MKSMU 130 FT	300	1.00	3	468.852	**6059405**
MKSMU 140 FT	400	1.00	3	555.081	**6059407**
MKSMU 150 FT	500	1.00	3	641.278	**6059409**
MKSMU 160 FT	600	1.00	3	727.540	**6059411**

Dimensions



Type	Length mm	Width mm	Usable cross-section cm²
MKSMU 110 FT	3050	100	108
MKSMU 115 FT	3050	150	161
MKSMU 120 FT	3050	200	218
MKSMU 130 FT	3050	300	328
MKSMU 140 FT	3050	400	438
MKSMU 150 FT	3050	500	548
MKSMU 160 FT	3050	600	655

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKSMU 110 FT	1.85	1.3	0.75	0.6
MKSMU 115 FT	1.85	1.3	0.75	0.6
MKSMU 120 FT	1.85	1.3	0.75	0.6
MKSMU 130 FT	1.85	1.3	0.75	0.6
MKSMU 140 FT	1.85	1.3	0.75	0.6
MKSMU 150 FT	1.85	1.3	0.75	0.6
MKSMU 160 FT	1.85	1.3	0.75	0.6

Load diagram, cable tray, type MKSMU 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

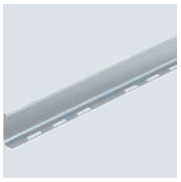
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

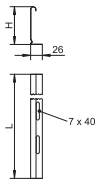
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Cable trays, side height 110

Separating retainer 85

St FS DD





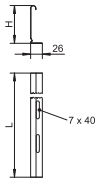
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 110

St FS DD





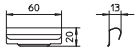
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	**6062122**
TSG 110 DD	110	0.75	3000	3	85.000	**6062335**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B



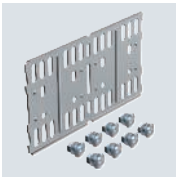


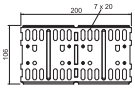
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Straight and angle connector 110

St FS FT



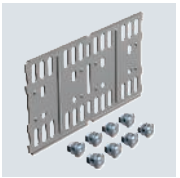


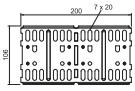
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 FS	110	10	33.800	**6067131**
RLVL 110 FT	110	10	35.100	**6067913**

Straight and angle connector for cable trays and fittings with a side height of 110 mm.
Including appropriate fastening material.

Straight and angle connector 110

A2 2B





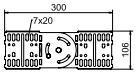
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 A2	110	10	33.400	**6067948**

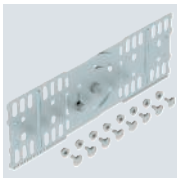
Straight and angle connector for cable trays and fittings with a side height of 110 mm.

St FS FT

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 110 FS	110	10	61.700	**7082037**
RGV 110 FT	110	10	64.300	**7082436**



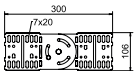


Adjustable connector for cable trays with a side height of 110 mm.
Including appropriate fastening material.

A2 2B

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RGV 110 A2	110	4	61.700	**7082479**



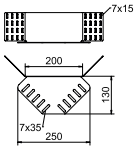


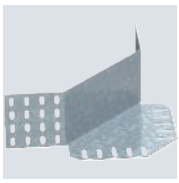
Adjustable connector for cable trays with a side height of 110 mm.

St FS

Corner connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 110 FS	110	10	72.000	**6067999**



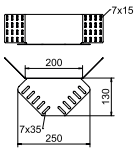


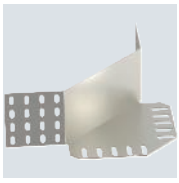
Corner connector for cable trays with side height 110 mm.
Fastening materials should be ordered separately.

A2 2B

Corner connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 110 A2	110	5	75.000	**6068049**



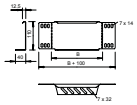


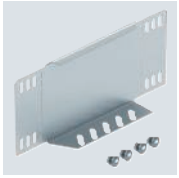
Corner connector for cable trays with side height 110 mm.

St FS

Reducer/stop-end 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 110 FS	110	100	1	16.400	**7111096**
RWEB 120 FS	110	200	1	29.000	**7111207**
RWEB 130 FS	110	300	1	40.700	**7111304**
RWEB 140 FS	110	400	1	52.900	**7111428**
RWEB 150 FS	110	500	1	64.800	**7111509**
RWEB 160 FS	110	600	1	71.000	**7111740**





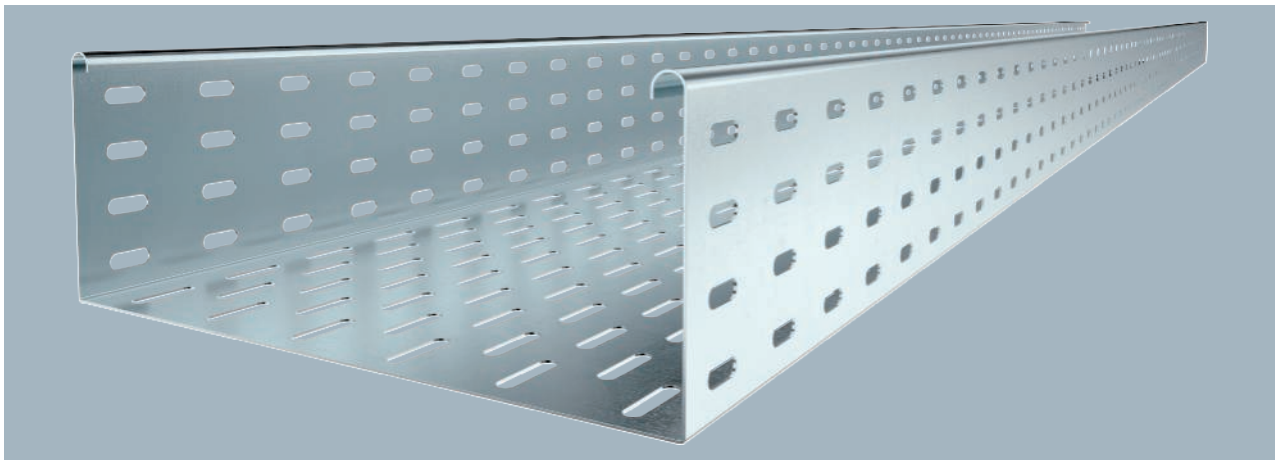
Reducer/stop-end for cable trays with side height 110 mm.
From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.

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Cable trays, side height 110

Cable tray MKS 110

St FS



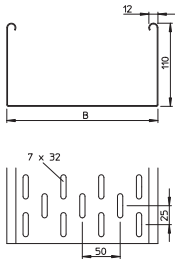
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKS 110 FS	100	1.00	3	267.700	**6060102**
MKS 120 FS	200	1.00	3	308.500	**6060196**
MKS 130 FS	300	1.00	3	373.900	**6060307**
MKS 140 FS	400	1.00	3	463.000	**6060404**
MKS 150 FS	500	1.00	3	528.333	**6060412**
MKS 155 FS	550	1.00	3	536.700	**6060528**

Including connector, type RLVL 110.

MKS 110 = medium-duty cable tray system with a side height of 110 mm.

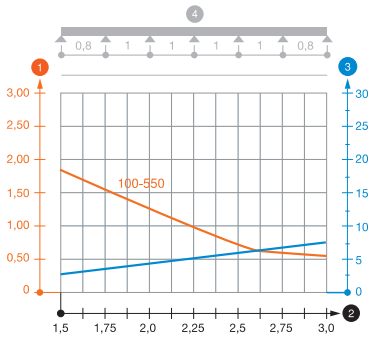
Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 110 FS	3000	100	108
MKS 120 FS	3000	200	218
MKS 130 FS	3000	300	328
MKS 140 FS	3000	400	438
MKS 150 FS	3000	500	548
MKS 155 FS	3000	550	603

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKS 110 FS	1.85	1.3	0.75	0.6
MKS 120 FS	1.85	1.3	0.75	0.6
MKS 130 FS	1.85	1.3	0.75	0.6
MKS 140 FS	1.85	1.3	0.75	0.6
MKS 150 FS	1.85	1.3	0.75	0.6
MKS 155 FS	1.85	1.3	0.75	0.6

Load



Load diagram, cable tray, type MKS 110

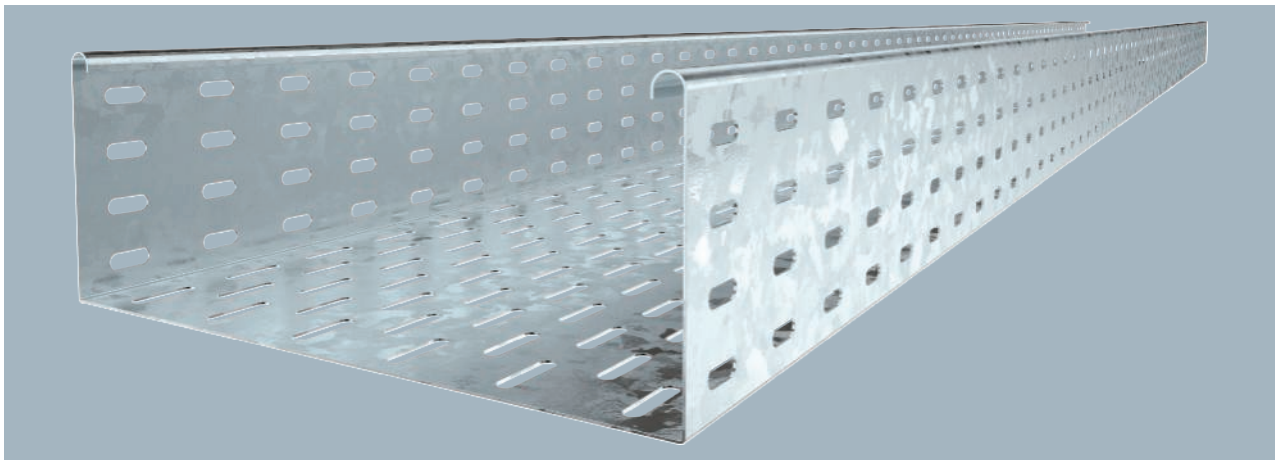
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

Cable tray MKS 110

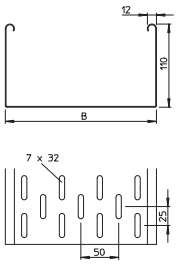


The cable tray is fastened to the bracket with screws, type FRS M6 x 12.

MKS 110 = medium-duty cable tray system with a side height of 110 mm.

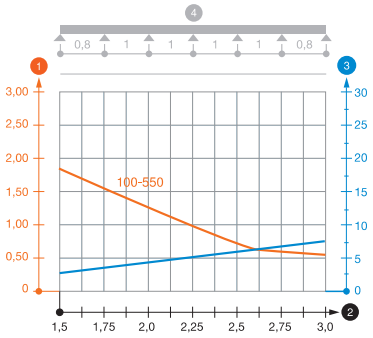
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
MKS 110 FT	100	1.00	3	268.900	**6060609**
MKS 120 FT	200	1.00	3	340.600	**6060625**
MKS 130 FT	300	1.00	3	407.000	**6060641**
MKS 140 FT	400	1.00	3	484.000	**6060676**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
MKS 110 FT	3000	100	110
MKS 120 FT	3000	200	220
MKS 130 FT	3000	300	330
MKS 140 FT	3000	400	440

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
MKS 110 FT	1.85	1.3	0.75	0.6
MKS 120 FT	1.85	1.3	0.75	0.6
MKS 130 FT	1.85	1.3	0.75	0.6
MKS 140 FT	1.85	1.3	0.75	0.6

Load diagram, cable tray, type MKS 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

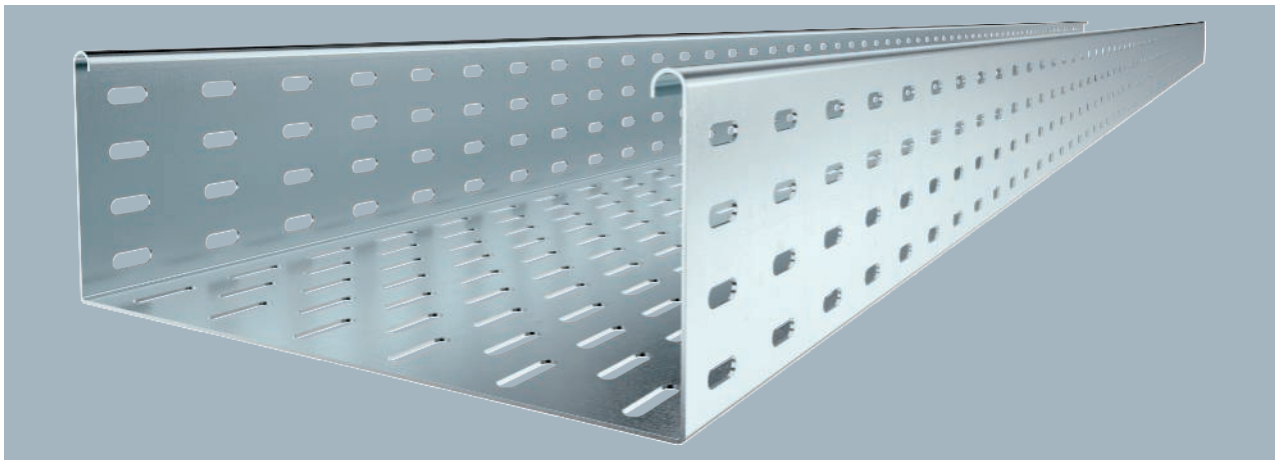
Always indicate the item number when ordering.

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Cable trays, side height 110

Cable tray SKS 110

St FS



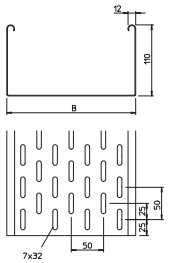
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
SKS 110 FS	100	1.50		3	386.000	**6061109**
SKS 120 FS	200	1.50		3	486.340	**6061206**
SKS 130 FS	300	1.50		3	584.000	**6061303**
SKS 140 FS	400	1.50		3	681.670	**6061400**
SKS 150 FS	500	1.50		3	779.670	**6061508**
SKS 155 FS	550	1.50		3	830.000	**6061559**

FS version includes connector, type RLVL 110.

SKS 110 = heavy-duty cable tray system with 110 mm side height.

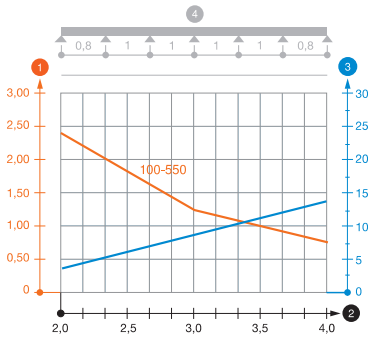
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 110 FS	3000	100	108
SKS 120 FS	3000	200	218
SKS 130 FS	3000	300	328
SKS 140 FS	3000	400	438
SKS 150 FS	3000	500	548
SKS 155 FS	3000	550	603

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKS 110 FS	3	2.4	1.2	0.8
SKS 120 FS	3	2.4	1.2	0.8
SKS 130 FS	3	2.4	1.2	0.8
SKS 140 FS	3	2.4	1.2	0.8
SKS 150 FS	3	2.4	1.2	0.8
SKS 155 FS	3	2.4	1.2	0.8

Load



Load diagram, cable tray, type SKS 110

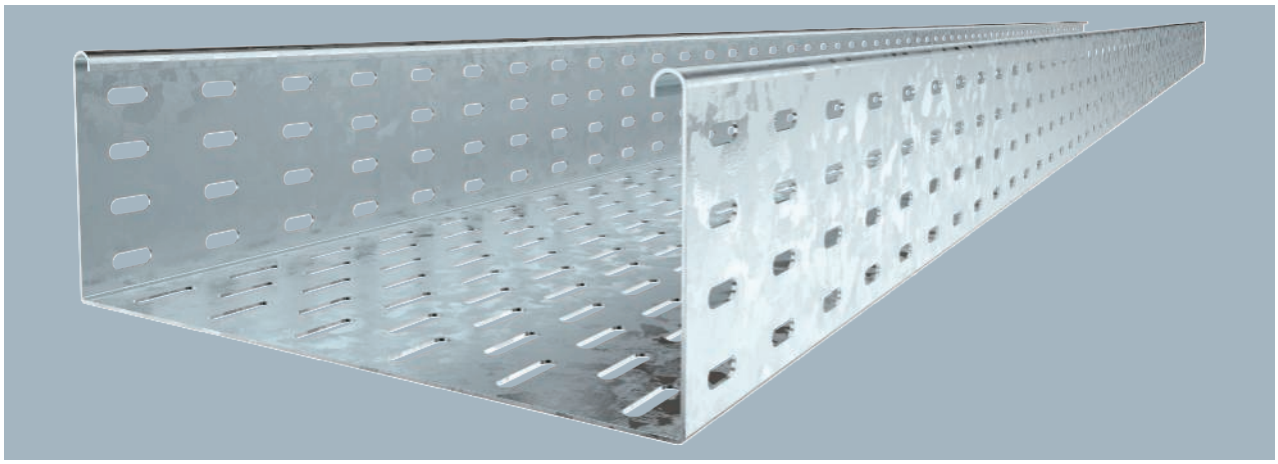
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

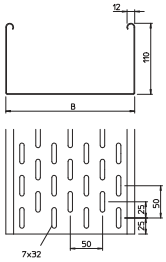
Cable tray SKS 110



SKS 110 = heavy-duty cable tray system with 110 mm side height.

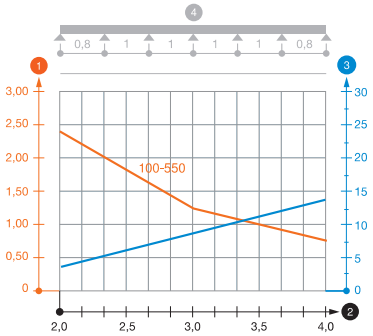
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKS 110 FT	100	1.50	3	388.680	**6061605**
SKS 120 FT	200	1.50	3	494.000	**6061621**
SKS 130 FT	300	1.50	3	598.340	**6061656**
SKS 140 FT	400	1.50	3	697.340	**6061672**
SKS 150 FT	500	1.50	3	807.000	**6061702**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKS 110 FT	3000	100	108
SKS 120 FT	3000	200	218
SKS 130 FT	3000	300	328
SKS 140 FT	3000	400	438
SKS 150 FT	3000	500	548

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKS 110 FT	3	2.4	1.2	0.8
SKS 120 FT	3	2.4	1.2	0.8
SKS 130 FT	3	2.4	1.2	0.8
SKS 140 FT	3	2.4	1.2	0.8
SKS 150 FT	3	2.4	1.2	0.8

Load diagram, cable tray, type SKS 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

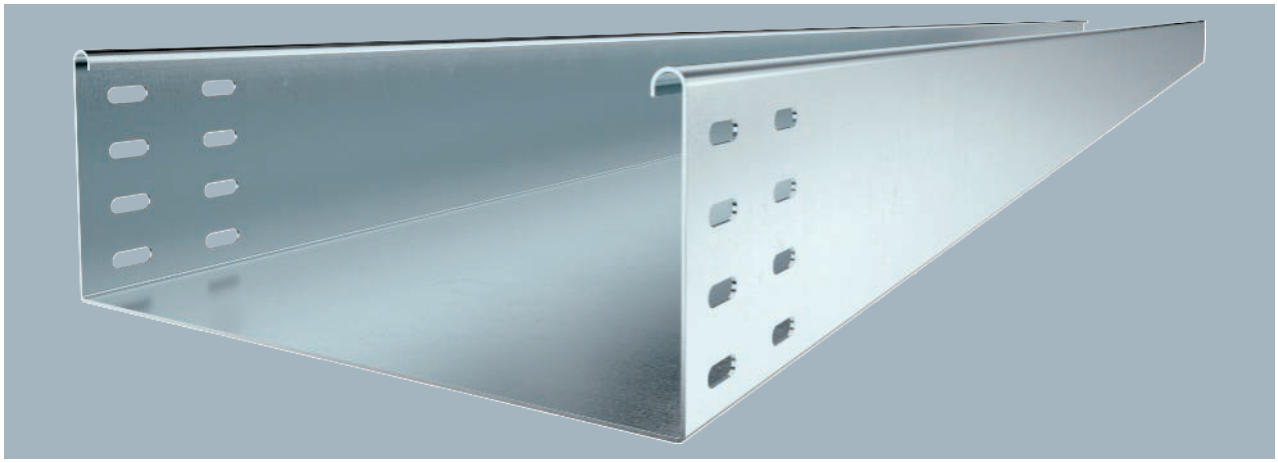
Always indicate the item number when ordering.

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Cable trays, side height 110

Cable tray SKSU 110

St FS



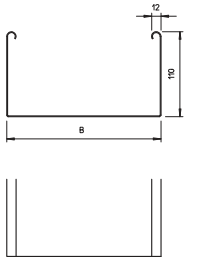
Type	Width mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
SKSU 110 FS	100	1.50		3	404.000	**6063403**
SKSU 120 FS	200	1.50		3	520.000	**6063438**
SKSU 130 FS	300	1.50		3	637.000	**6063454**
SKSU 140 FS	400	1.50		3	754.700	**6063470**
SKSU 150 FS	500	1.50		3	872.000	**6063497**

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKSU 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

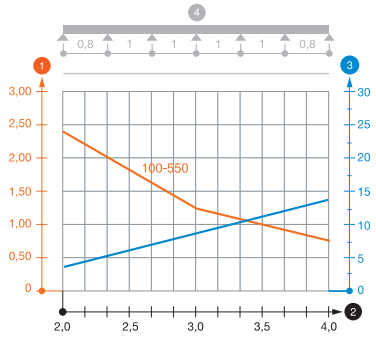
Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSU 110 FS	3000	100	108
SKSU 120 FS	3000	200	218
SKSU 130 FS	3000	300	328
SKSU 140 FS	3000	400	438
SKSU 150 FS	3000	500	548

Dimensions



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSU 110 FS	3	2.4	1.2	0.8
SKSU 120 FS	3	2.4	1.2	0.8
SKSU 130 FS	3	2.4	1.2	0.8
SKSU 140 FS	3	2.4	1.2	0.8
SKSU 150 FS	3	2.4	1.2	0.8

Load



Load diagram, cable tray, type SKSU 110

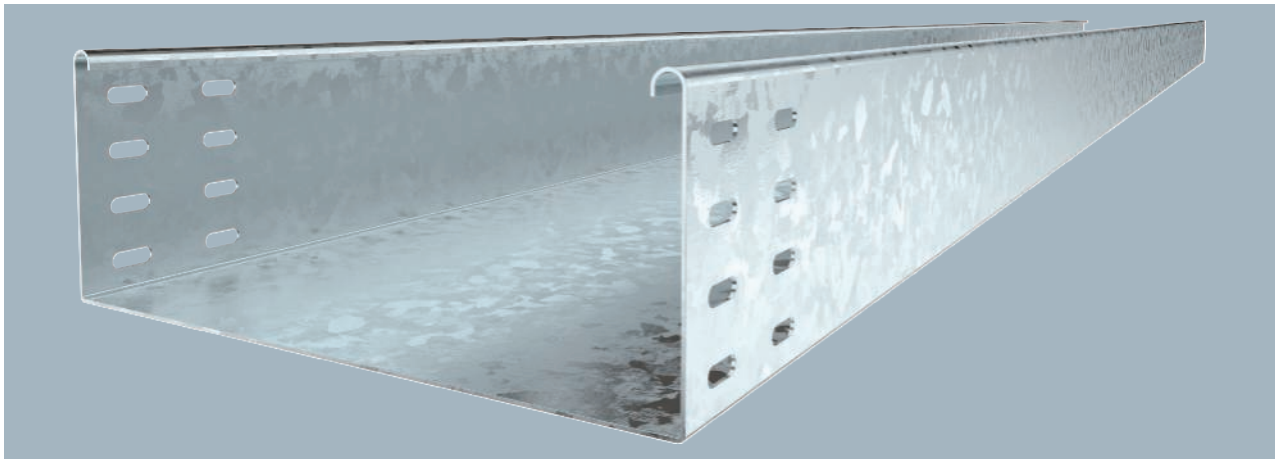
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

Cable tray SKSU 110

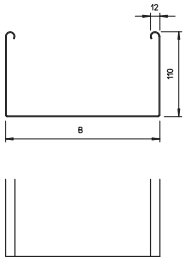


The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

SKS 110 = heavy-duty cable tray system, unperforated, with 110 mm side height.

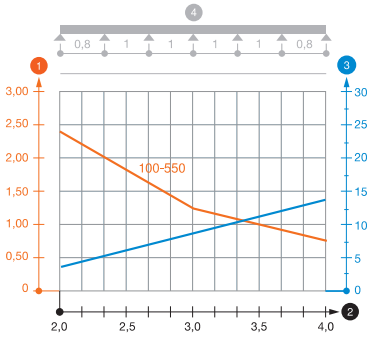
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
SKSU 110 FT	100	1.50	3	406.700	**6064795**
SKSU 120 FT	200	1.50	3	551.340	**6064833**
SKSU 130 FT	300	1.50	3	694.000	**6064884**
SKSU 140 FT	400	1.50	3	822.670	**6064922**
SKSU 150 FT	500	1.50	3	924.670	**6064965**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
SKSU 110 FT	3000	100	108
SKSU 120 FT	3000	200	218
SKSU 130 FT	3000	300	328
SKSU 140 FT	3000	400	438
SKSU 150 FT	3000	500	548

Load



	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m
SKSU 110 FT	3	2.4	1.2	0.8
SKSU 120 FT	3	2.4	1.2	0.8
SKSU 130 FT	3	2.4	1.2	0.8
SKSU 140 FT	3	2.4	1.2	0.8
SKSU 150 FT	3	2.4	1.2	0.8

Load diagram, cable tray, type SKSU 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

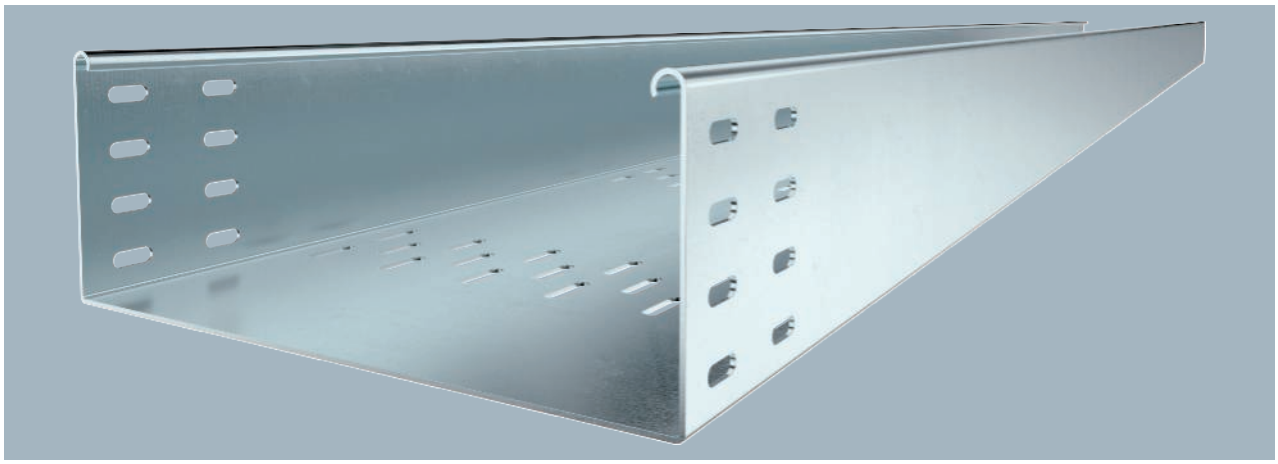
— Strut bend curve according to support width

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Cable trays, side height 110

Cable tray BKRS 110

St FS



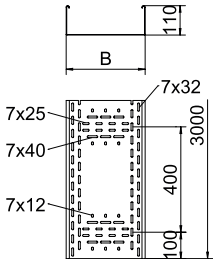
Type	Side height mm	Dim. H mm	Dim. B mm	Dim. L mm	Metal thick-ness mm		Pack m	Weight kg/100 m	Item no.
BKRS 1110 FS	110	110	100	3000	2.00		3	517.933	**6061981**
BKRS 1120 FS	110	110	200	3000	2.00		3	659.900	**6061983**
BKRS 1130 FS	110	110	300	3000	2.00		3	806.833	**6061985**
BKRS 1140 FS	110	110	400	3000	2.00		3	954.767	**6061987**
BKRS 1150 FS	110	110	500	3000	2.00		3	1,102.667	**6061989**
BKRS 1160 FS	110	110	600	3000	2.00		3	1,250.600	**6061991**

The cable tray has connector perforations on both sides. Straight connectors should be ordered separately and in the appropriate quantity.

Heavy-duty, walkable cable tray system BKRS with base perforation, in 110 mm side height.

Type	Dim. L mm	Dim. B mm	Dim. H mm	Metal thick-ness mm	Usable cross-section cm^2
BKRS 1110 FS	3000	100	110	2.00	96
BKRS 1120 FS	3000	200	110	2.00	196
BKRS 1130 FS	3000	300	110	2.00	296
BKRS 1140 FS	3000	400	110	2.00	396
BKRS 1150 FS	3000	500	110	2.00	496
BKRS 1160 FS	3000	600	110	2.00	596

Dimensions

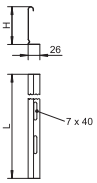


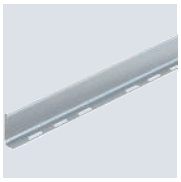
St FS DD

Separating retainer 85

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**

Separating retainer for separation of cables of different voltages or functions.



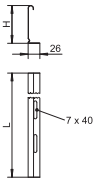


St FS DD

Separating retainer 110

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	**6062122**
TSG 110 DD	110	0.75	3000	3	85.000	**6062335**

Separating retainer for separation of cables of different voltages or functions.





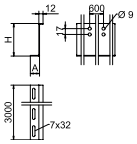
St FS

Barrier strip, Z-shaped 110

Type	Dim. H mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
TSG110Z BKRS FS	110	2.00	3000	3	210.433	**6062391**

For widths of 200 mm or more, a barrier strip with a maximum compartment size of 220 mm should be used.
For widths of 500 mm or more, two barrier strips with a maximum compartment size of 220 mm should be used.

Barrier strip for the BKRS walkable cable tray system. Fastening with truss-head bolts M6 x 12 in the base perforation.



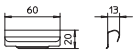


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.





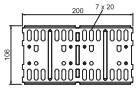
St FS FT

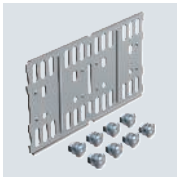
Straight and angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
RLVL 110 FS	110	10	33.800	**6067131**
RLVL 110 FT	110	10	35.100	**6067913**

Straight and angle connector for cable trays and fittings with a side height of 110 mm.

Including appropriate fastening material.



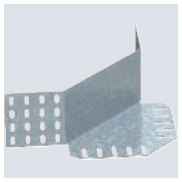


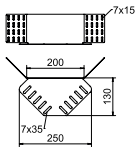
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Cable trays, side height 110

Corner connector 110

St FS



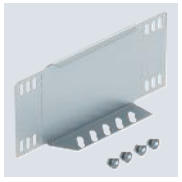


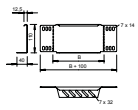
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
REV 110 FS	110	10	72.000	**6067999**

Corner connector for cable trays with side height 110 mm.
Fastening materials should be ordered separately.

Reducer/stop-end 110

St FS



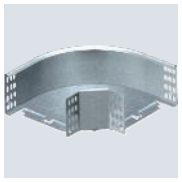


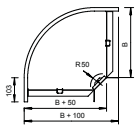
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RWEB 110 FS	110	100	1	16.400	**7111096**
RWEB 120 FS	110	200	1	29.000	**7111207**
RWEB 130 FS	110	300	1	40.700	**7111304**
RWEB 140 FS	110	400	1	52.900	**7111428**
RWEB 150 FS	110	500	1	64.800	**7111509**
RWEB 160 FS	110	600	1	71.000	**7111740**

Reducer/stop-end for cable trays with side height 110 mm.
From a width of 150 mm, the perforated lower flange is provided.
Including appropriate fastening material.

90° bend 110

St FS



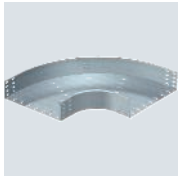


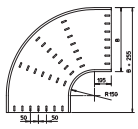
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 110 FS	110	100	1	80.000	**7001894**
RB 90 120 FS	110	200	1	140.000	**7001916**
RB 90 130 FS	110	300	1	210.000	**7001932**

90° bend, horizontal, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

90° bend 110

St FS



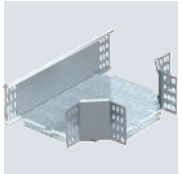


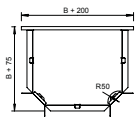
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RB 90 140 FS	110	400	1	540.000	**7001940**
RB 90 150 FS	110	500	1	700.000	**7001967**

90° bend, horizontal, for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

T branch piece 110

St FS





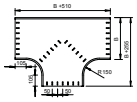
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 110 FS	110	100	1	105.000	**7003633**
RT 120 FS	110	200	1	160.000	**7003668**
RT 130 FS	110	300	1	235.000	**7003684**

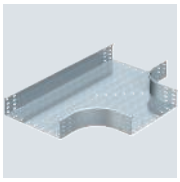
Horizontal T branch piece, for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state. Including appropriate fastening material.

St FS

T branch piece 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RT 140 FS	110	400	1	770.000	**7003692**
RT 150 FS	110	500	1	950.000	**7003714**



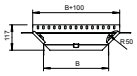


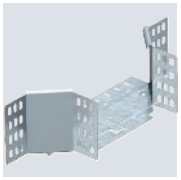
Horizontal T branch piece, for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

St FS

Add-on tee 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 110 FS	110	100	1	45.000	**7002637**
RAA 120 FS	110	200	1	55.000	**7002653**
RAA 130 FS	110	300	1	70.000	**7002688**



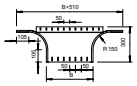


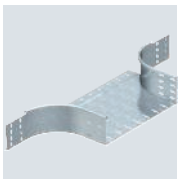
Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state.
Including appropriate fastening material.

St FS

Add-on tee 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RAA 140 FS	110	400	1	250.000	**7002696**
RAA 150 FS	110	500	1	285.000	**7002726**



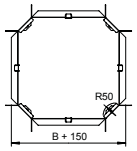


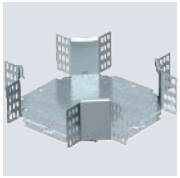
Add-on tee for horizontal and vertical use. For all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

St FS

Cross-over 110

Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 110 FS	110	100	1	110.000	**7004648**
RK 120 FS	110	200	1	160.000	**7004664**
RK 130 FS	110	300	1	220.000	**7004680**



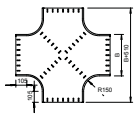


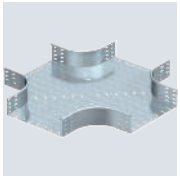
Horizontal cross-over for all cable tray types of 110 mm side height.
The fitting is shipped in an unmounted state. Including appropriate fastening material.

St FS

Cross-over 110

Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RK 140 FS	110	400	1	906.000	**7004699**
RK 150 FS	110	500	1	1,100.000	**7004710**





Horizontal cross-over for all cable tray types of 110 mm side height.
Fastening materials should be ordered separately.

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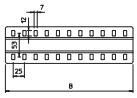
Always indicate the item number when ordering.

Joint plates

Joint plate

St FS DD





Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 FS	100	20	7.700	**7070205**
SSLB 150 FS	150	20	14.000	**7070209**
SSLB 200 FS	200	20	18.500	**7070213**
SSLB 300 FS	300	20	29.200	**7070217**
SSLB 400 FS	400	20	38.200	**7070221**
SSLB 500 FS	500	20	49.000	**7070225**
SSLB 600 FS	600	20	58.000	**7070233**
SSLB 100 DD	100	20	7.700	**7070306**
SSLB 150 DD	150	20	14.000	**7070310**
SSLB 200 DD	200	20	18.500	**7070314**
SSLB 300 DD	300	20	29.200	**7070318**
SSLB 400 DD	400	20	38.200	**7070322**
SSLB 500 DD	500	20	49.000	**7070326**
SSLB 600 DD	600	20	58.000	**7070334**

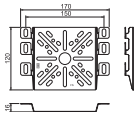
Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

Mounting plates

Mounting plate

St A2 FS DD 2B





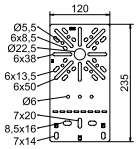
Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP UNI FS	120	170	1	11.000	**7084773**
MP UNI DD	120	170	1	11.000	**7085114**
MP UNI A2	120	170	1	11.000	**7085133**

Please order the truss-head bolt, type FRSB 6 x 12, separately.
Mounting plate, for fastening on the side rail of cable support systems.

Mounting plate, flat

St FS DD





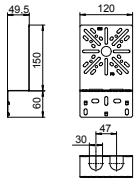
Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP FL FS	235	120	1	19.200	**7084757**
MP FL DD	235	120	1	19.200	**7085108**

Please order the truss-head bolt, type FRS B6 x 12, separately.
Flat mounting plate, for fastening on the side rail of the cable tray.

Mounting plate, angled

St FS





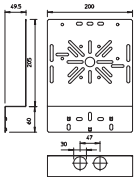
Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP WI KL. FS	210	120	1	20.200	**7084765**

Please order the truss-head bolt, type FRS B6 x 12, separately.
Curved mounting plate, for fixing on the side rail of the cable tray.

St FS

Mounting plate, angled, wide

Type	Height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MP WI GR. FS	240	200	1	39.400	7084781



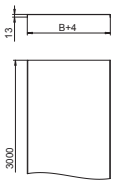


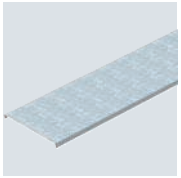
Please order the truss-head bolt, type FRS B6 x 12, separately.
Angled mounting plate, for fastening on the side rail of the cable tray.

St FS DD

Unperforated cover

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 FS	50	1.00	3000	3	59.767	6052056
DRLU 100 FS	100	1.00	3000	3	99.000	6052103
DRLU 150 FS	150	1.00	3000	3	138.267	6052153
DRLU 200 FS	200	1.00	3000	3	177.500	6052210
DRLU 300 FS	300	1.00	3000	3	256.000	6052307
DRLU 400 FS	400	1.00	3000	3	334.500	6052405
DRLU 500 FS	500	1.50	3000	3	619.234	6052512
DRLU 600 FS	600	1.50	3000	3	737.000	6052609
DRLU 050 DD	50	1.00	3000	3	59.770	6052640
DRLU 100 DD	100	1.00	3000	3	99.000	6052643
DRLU 150 DD	150	1.00	3000	3	138.267	6052647
DRLU 200 DD	200	1.00	3000	3	177.500	6052650
DRLU 300 DD	300	1.00	3000	3	256.000	6052656
DRLU 400 DD	400	1.00	3000	3	334.500	6052662
DRLU 500 DD	500	1.50	3000	3	619.234	6052668
DRLU 600 DD	600	1.50	3000	3	737.000	6052674



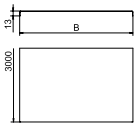


Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

A2 2B

Unperforated cover

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 A2	50	1.00	3000	3	59.767	6052821
DRLU 100 A2	100	1.00	3000	3	99.000	6052824
DRLU 200 A2	200	1.00	3000	3	177.500	6052831
DRLU 300 A2	300	1.00	3000	3	256.000	6052834
DRLU 400 A2	400	1.00	3000	3	334.500	6052837
DRLU 500 A2	500	1.50	3000	3	619.167	6052841
DRLU 600 A2	600	1.50	3000	3	736.900	6052844





Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.

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System accessories

Cover clamp

VA 2B





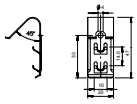
Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DRLU A2	30	0.842	6052810

Cover clamp for secure fastening of covers on cable trays and cable ladders.
At least 6 cover clamps should be mounted for each 3 metres of cover.

Cover clamp, universal

VA 2B





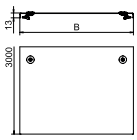
Type	Pack Piece	Weight kg/100 pc.	Item no.
DKU A2	20	0.794	6065600

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.
The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.

Cover with turn buckle

St FS FT DD





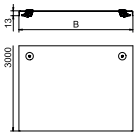
Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 075 FS	75	1.00	3000	3	83.340	6052029
DRL 100 FS	100	1.00	3000	3	103.000	6052096
DRL 150 FS	150	1.00	3000	3	141.667	6052150
DRL 200 FS	200	1.00	3000	3	181.340	6052207
DRL 300 FS	300	1.00	3000	3	259.334	6052304
DRL 400 FS	400	1.00	3000	3	338.670	6052401
DRL 500 FS	500	1.25	3000	3	623.000	6052509
DRL 600 FS	600	1.25	3000	3	741.000	6052606
DRL 100 FT	100	1.00	3000	3	106.670	6051340
DRL 150 FT	150	1.00	3000	3	159.340	6051359
DRL 200 FT	200	1.00	3000	3	202.670	6051367
DRL 300 FT	300	1.00	3000	3	289.000	6051383
DRL 400 FT	400	1.50	3000	3	542.000	6051413
DRL 500 FT	500	1.50	3000	3	667.670	6051448
DRL 600 FT	600	1.50	3000	3	793.000	6051472
DRL 100 DD	100	1.00	3000	3	106.340	6052703
DRL 200 DD	200	1.00	3000	3	185.000	6052709
DRL 300 DD	300	1.00	3000	3	263.340	6052712
DRL 400 DD	400	1.00	3000	3	342.070	6052715
DRL 500 DD	500	1.25	3000	3	626.670	6052718
DRL 600 DD	600	1.25	3000	3	744.570	6052724

Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

A2 2B

Cover with turn buckle

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 100 A2	100	1.00	3000	3	105.070	**6052878**
DRL 200 A2	200	1.00	3000	3	183.500	**6052894**
DRL 300 A2	300	1.00	3000	3	262.240	**6052908**
DRL 400 A2	400	1.00	3000	3	340.400	**6052932**
DRL 500 A2	500	1.25	3000	3	625.340	**6052959**
DRL 600 A2	600	1.25	3000	3	743.240	**6052975**





Transverse bead from 500 mm width.

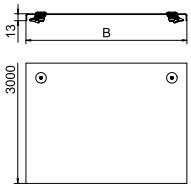
Cover for cable trays and cable ladders with three pairs of turn buckles.

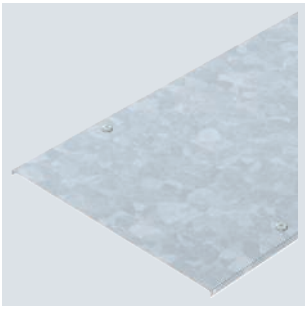
When using covers outdoors, additional measures against the influence of wind must be taken.

St FT SO

Cover with turn buckle FT SOMY

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 400 FT SO	400	1.00	3000	3	371.370	**7196039**





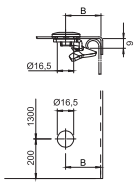
Cover for cable trays and cable ladders with three pairs of turn buckles.

When using covers outdoors, additional measures against the influence of wind must be taken.

St FT

Turn buckle for riveting

Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H FT	20	2.187	**6065012**





Turn buckle for additional installation or installation at a later date.

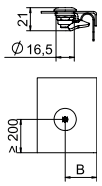
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

Single-sided turn buckle. Use for cover widths of 100–600 mm.

St FT

Turn buckle for screwing

Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H S FT	20	3.260	**6065018**





Turn buckle for additional installation or installation at a later date.

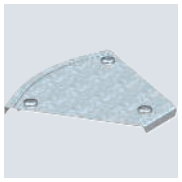
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm

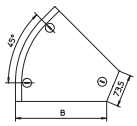
Single-sided turn buckle. Use for cover widths of 100–600 mm.

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Cover for 45° bend

St FS DD



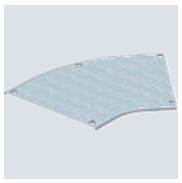


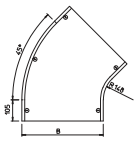
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 45 100 FS	100	1.00	1	19.400	**7128819**
DFB 45 150 FS	150	1.00	1	27.800	**7128827**
DFB 45 200 FS	200	1.00	1	36.900	**7128835**
DFB 45 300 FS	300	1.00	1	60.200	**7128851**
DFB 45 100 DD	100	1.00	1	19.400	**7131828**
DFB 45 150 DD	150	1.00	1	27.800	**7131836**
DFB 45 200 DD	200	1.00	1	36.900	**7131844**
DFB 45 300 DD	300	1.00	1	60.200	**7131860**

The cover can be used with fittings of all side heights.
Cover for 45° bend with pre-mounted turn buckle.

Cover for 45° bend

St FS DD





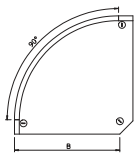
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 45 400 FS	400	1.25	1	218.600	**7128886**
DFB 45 500 FS	500	1.25	1	252.800	**7128908**
DFB 45 600 FS	600	1.25	1	362.800	**7128924**
DFB 45 400 DD	400	1.25	1	218.600	**7131879**
DFB 45 500 DD	500	1.25	1	252.800	**7131887**
DFB 45 600 DD	600	1.25	1	362.800	**7131909**

The cover can be used with fittings of all side heights.
Cover for 45° bend with pre-mounted turn buckle.

Cover for 90° bend

St FS DD





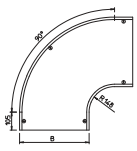
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 100 FS	100	1.00	1	27.000	**7129610**
DFB 90 150 FS	150	1.00	1	40.000	**7129629**
DFB 90 200 FS	200	1.00	1	56.000	**7129637**
DFB 90 300 FS	300	1.00	1	100.000	**7129653**
DFB 90 100 DD	100	1.00	1	27.000	**7130511**
DFB 90 150 DD	150	1.00	1	40.000	**7130538**
DFB 90 200 DD	200	1.00	1	56.000	**7130546**
DFB 90 300 DD	300	1.00	1	100.000	**7130562**

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

Cover for 90° bend

St FS DD





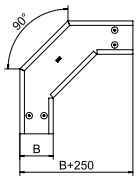
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 400 FS	400	1.25	1	340.000	**7129688**
DFB 90 500 FS	500	1.25	1	455.000	**7129718**
DFB 90 600 FS	600	1.25	1	640.000	**7129734**
DFB 90 400 DD	400	1.25	1	400.000	**7130589**
DFB 90 500 DD	500	1.25	1	535.000	**7130600**
DFB 90 600 DD	600	1.25	1	750.000	**7130627**

The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

A2 2B

Cover for 90° bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 100 A2	100	1.00	1	65.000	**7134908**
DFB 90 200 A2	200	1.00	1	60.000	**7134916**
DFB 90 300 A2	300	1.00	1	102.200	**7134924**



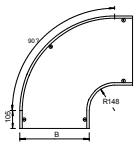


The cover can be used with fittings of all side heights.
The 100 mm width has a rectangular shape and does not correspond to the image.
Cover for 90° bend with pre-mounted turn buckles.

A2 2B

Cover for 90° bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFB 90 400 A2	400	1.25	1	340.000	**7134932**
DFB 90 500 A2	500	1.25	1	470.000	**7134940**
DFB 90 600 A2	600	1.25	1	589.700	**7134967**



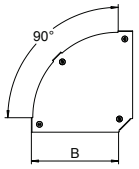


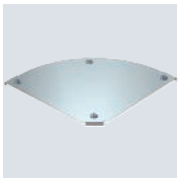
The cover can be used with fittings of all side heights.
Cover for 90° bend with pre-mounted turn buckles.

St FS DD

Cover for 90° Magic bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFBM 90 100 FS	100	1.25	1	17.100	**7138500**
DFBM 90 150 FS	150	1.25	1	28.500	**7138502**
DFBM 90 200 FS	200	1.25	1	43.000	**7138504**
DFBM 90 300 FS	300	1.25	1	81.600	**7138506**
DFBM 90 400 FS	400	1.25	1	165.000	**7138508**
DFBM 90 500 FS	500	1.25	1	244.100	**7138510**
DFBM 90 600 FS	600	1.25	1	338.100	**7138512**
DFBM 90 100 DD	100	1.25	1	17.100	**7138540**
DFBM 90 150 DD	150	1.25	1	28.500	**7138542**
DFBM 90 200 DD	200	1.25	1	43.000	**7138544**
DFBM 90 300 DD	300	1.25	1	81.600	**7138546**
DFBM 90 400 DD	400	1.25	1	165.000	**7138548**
DFBM 90 500 DD	500	1.25	1	244.100	**7138550**
DFBM 90 600 DD	600	1.25	1	338.100	**7138552**



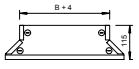


The cover can be used with fittings of all side heights.
Cover for 90° bend with premounted turn buckles.

St FS DD

Cover for add-on tee

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 100 FS	100	1.00	1	25.000	**7128428**
DFAA 150 FS	150	1.00	1	30.000	**7128436**
DFAA 200 FS	200	1.00	1	34.000	**7128444**
DFAA 300 FS	300	1.00	1	43.000	**7128460**
DFAA 100 DD	100	1.00	1	25.000	**7131305**
DFAA 200 DD	200	1.00	1	34.000	**7131321**
DFAA 300 DD	300	1.00	1	43.000	**7131348**





Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

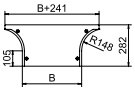
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

System accessories

Cover for add-on tee

St FS DD





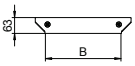
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 400 FS	400	1.25	1	145.000	**7128487**
DFAA 500 FS	500	1.25	1	174.000	**7128509**
DFAA 600 FS	600	1.25	1	200.000	**7128525**
DFAA 400 DD	400	1.25	1	145.000	**7131356**
DFAA 500 DD	500	1.25	1	174.000	**7131364**
DFAA 600 DD	600	1.25	1	214.000	**7131380**

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Cover for Magic add-on tee

St FS DD





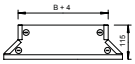
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAAM 100 FS	100	1.25	1	12.400	**7138640**
DFAAM 150 FS	150	1.25	1	14.800	**7138642**
DFAAM 200 FS	200	1.25	1	17.300	**7138644**
DFAAM 300 FS	300	1.25	1	22.200	**7138646**
DFAAM 400 FS	400	1.25	1	32.800	**7138648**
DFAAM 500 FS	500	1.25	1	39.000	**7138650**
DFAAM 600 FS	600	1.25	1	45.100	**7138652**
DFAAM 100 DD	100	1.25	1	12.400	**7138680**
DFAAM 150 DD	150	1.25	1	14.800	**7138682**
DFAAM 200 DD	200	1.25	1	17.300	**7138684**
DFAAM 300 DD	300	1.25	1	22.200	**7138686**
DFAAM 400 DD	400	1.25	1	32.800	**7138688**
DFAAM 500 DD	500	1.25	1	39.000	**7138690**
DFAAM 600 DD	600	1.25	1	45.100	**7138692**

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Cover for add-on tee

A2 2B





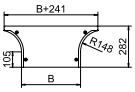
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 100 A2	100	1.00	1	26.700	**7136900**
DFAA 200 A2	200	1.00	1	35.800	**7136919**
DFAA 300 A2	300	1.00	1	44.800	**7136927**

Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

Cover for add-on tee

A2 2B





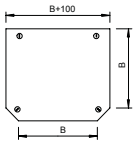
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFAA 400 A2	400	1.25	1	176.800	**7136935**
DFAA 500 A2	500	1.25	1	208.000	**7136943**
DFAA 600 A2	600	1.25	1	240.000	**7136978**

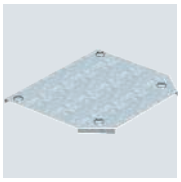
Cover for add-on tee with pre-mounted turn buckles.
The cover can be used with fittings of all side heights.

St FS DD

Cover for tee

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFT 100 FS	100	1.00	1	30.400	**7128215**
DFT 200 FS	200	1.00	1	60.000	**7128231**
DFT 300 FS	300	1.00	1	115.000	**7128266**
DFT 100 DD	100	1.00	1	27.000	**7129319**
DFT 200 DD	200	1.00	1	65.000	**7129335**



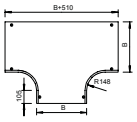


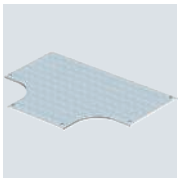
Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

St FS DD

Cover for tee

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFT 400 FS	400	1.25	1	505.000	**7128282**
DFT 500 FS	500	1.25	1	670.000	**7128304**
DFT 600 FS	600	1.25	1	854.000	**7128320**
DFT 400 DD	400	1.25	1	600.000	**7129386**



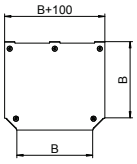


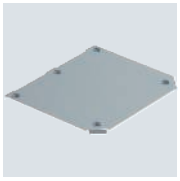
Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

St FS

Cover for Magic tee

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFTM 100 FS	100	1.25	1	30.400	**7138790**
DFTM 150 FS	150	1.25	1	45.700	**7138792**
DFTM 200 FS	200	1.25	1	64.900	**7138794**
DFTM 300 FS	300	1.25	1	117.600	**7138796**
DFTM 400 FS	400	1.25	1	226.500	**7138798**
DFTM 500 FS	500	1.25	1	325.800	**7138800**
DFTM 600 FS	600	1.25	1	449.400	**7138802**



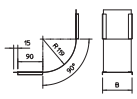


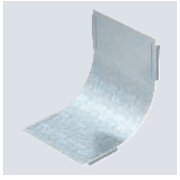
Cover for tee with pre-mounted turn buckle.
The cover can be used with fittings of all side heights.

St FS

Cover for 90° vertical bend, rising

Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S FS	60	100	0.75	1	21.000	**7130805**
DBV 150 S FS	60	150	0.75	1	30.000	**7130809**
DBV 200 S FS	60	200	0.75	1	39.000	**7130813**
DBV 300 S FS	60	300	0.75	1	49.000	**7130817**
DBV 400 S FS	60	400	0.75	1	68.000	**7130821**
DBV 500 S FS	60	500	0.75	1	86.000	**7130825**
DBV 600 S FS	60	600	0.75	1	105.000	**7130829**





Cover for all rising vertical bends.
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

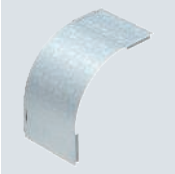
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

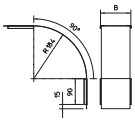
Always indicate the item number when ordering.

System accessories

Cover for 90° vertical bend, falling

St FS





Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F FS	60	100	0.75	1	25.200	**7130852**
DBV 60 150 F FS	60	150	0.75	1	36.900	**7130856**
DBV 60 200 F FS	60	200	0.75	1	48.700	**7130860**
DBV 60 300 F FS	60	300	0.75	1	72.300	**7130864**
DBV 60 400 F FS	60	400	0.75	1	95.800	**7130868**
DBV 60 500 F FS	60	500	0.75	1	119.300	**7130872**
DBV 60 600 F FS	60	600	0.75	1	142.800	**7130876**

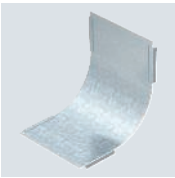
Cover for falling vertical bends of side height 60 mm.

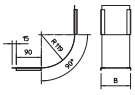
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover, vertical bend, rising

Cover for 90° vertical bend, rising

St FS





Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 100 S FS	60	100	0.75	1	21.000	**7130805**
DBV 150 S FS	60	150	0.75	1	30.000	**7130809**
DBV 200 S FS	60	200	0.75	1	39.000	**7130813**
DBV 300 S FS	60	300	0.75	1	49.000	**7130817**
DBV 400 S FS	60	400	0.75	1	68.000	**7130821**
DBV 500 S FS	60	500	0.75	1	86.000	**7130825**
DBV 600 S FS	60	600	0.75	1	105.000	**7130829**

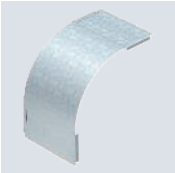
Cover for all rising vertical bends.

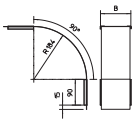
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

Cover, vertical bend, falling

Cover for 90° vertical bend, falling

St FS





Type	Side height mm	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DBV 60 100 F FS	60	100	0.75	1	25.200	**7130852**
DBV 60 150 F FS	60	150	0.75	1	36.900	**7130856**
DBV 60 200 F FS	60	200	0.75	1	48.700	**7130860**
DBV 60 300 F FS	60	300	0.75	1	72.300	**7130864**
DBV 60 400 F FS	60	400	0.75	1	95.800	**7130868**
DBV 60 500 F FS	60	500	0.75	1	119.300	**7130872**
DBV 60 600 F FS	60	600	0.75	1	142.800	**7130876**

Cover for falling vertical bends of side height 60 mm.

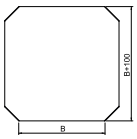
The fastening is guaranteed by the overlap of the cable tray covers. The cover can also be fastened using cover clamps.

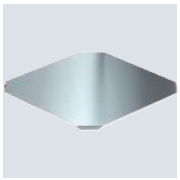
Lid for intersection

St FS

Cover for cross-over

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
DFK 100 FS RU	100	0.70	1	19.000	**7128750**
DFK 150 FS RU	150	0.70	1	31.000	**7128752**
DFK 200 FS RU	200	0.70	1	49.000	**7128754**
DFK 300 FS RU	300	0.70	1	87.000	**7128756**
DFK 400 FS RU	400	0.70	1	136.000	**7128758**





The cover can be used with fittings of all side heights.

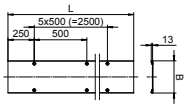
Cover for cross-over with pre-mounted turn buckles.

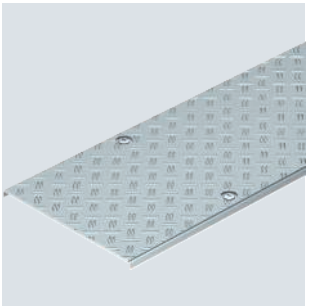
Deckel Kabelkanal begehbar BKRS

Alu/ St

Cover with chequer plate and turn buckle

Type	Dim. B mm	Dim. L mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
DF BKR10 FS AL	100	3000	6.00	3	272.330	**6049181**
DF BKR20 FS AL	200	3000	6.00	3	503.670	**6049183**
DF BKR30 FS AL	300	3000	6.00	3	735.000	**6049185**
DF BKR40 FS AL	400	3000	6.00	3	966.670	**6049187**
DF BKR50 FS AL	500	3000	6.00	3	1,197.670	**6049189**
DF BKR60 FS AL	600	3000	6.00	3	1,429.000	**6049191**





Cable tray cover for the walkable BKRS cable tray system. The basic cover is strip galvanised in a material thickness of 2 mm with additional aluminium chequer riveted on in a thickness of 4 mm, sturdy and non-slip. Turn buckle fastening with a turn buckle distance of 500 mm.

The covers are tested according to DIN 51130 and possess anti-slip class R10 and displacement space class V8.

The turn buckles for cover mounting are pre-installed.

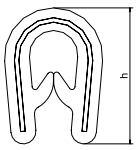
When the cover is used under wind, draught or pressure impacts, additional security measures are required.

Edge protection strips

PVC

Edge protection strip, black

Type	For metal thickness mm	Dim. h mm	Colour	Length mm	Pack m	Weight kg/100 m	Item no.
KSB 2 PVC	0.75-2	10	Black	10000	10	8.000	**6072909**
KSB 4 PVC	1.5-4	15	Black	10000	10	15.000	**6072895**





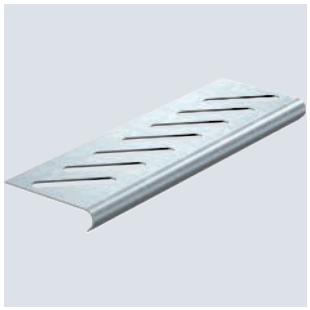
Edge protection strip with steel inlay to cover cut plate ends. Black, UV-resistant version.

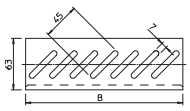
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Bottom end plates

Bottom end plate

St FS DD





Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
BEB 050 FS	50	1	2.215	**7083041**
BEB 100 FS	100	1	4.599	**7083106**
BEB 150 FS	150	1	6.983	**7083157**
BEB 200 FS	200	1	9.367	**7083203**
BEB 300 FS	300	1	14.100	**7083300**
BEB 400 FS	400	1	18.900	**7083408**
BEB 500 FS	500	1	23.700	**7083505**
BEB 600 FS	600	1	28.400	**7083602**
BEB 050 DD	50	1	2.215	**7083616**
BEB 100 DD	100	1	4.599	**7083618**
BEB 150 DD	150	1	6.983	**7083622**
BEB 200 DD	200	1	9.367	**7083626**
BEB 300 DD	300	1	14.100	**7083630**
BEB 400 DD	400	1	18.900	**7083634**
BEB 500 DD	500	1	23.700	**7083638**
BEB 600 DD	600	1	28.400	**7083642**

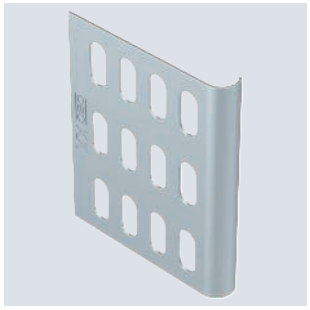
For fastening, please order screws, type FRSB M6x12, separately.

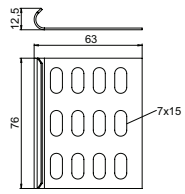
Bottom end plate for floor reinforcement at the ends of the cable tray and as cable protection.

Side end panel - SEB 85 FS

Side end panel 85

St FS





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
SEB 85 FS	85	20	5.240	**7083008**

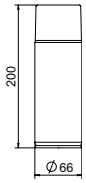
Including appropriate fastening material.

Side end plate for side reinforcement at the ends of the cable tray and as cable protection.

Zinc touch-ups

Zinc repairs





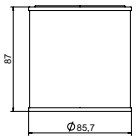
Type	Pack Piece	Weight kg/100 pc.	Item no.
ZSF	1	45.000	**2362970**

The zinc spray can be used in the temperature range - 20 °C to 150 °C.

Zinc spray for treatment of unprotected surfaces and cutting edges. Can contents: 400 ml.

Zinc repair paint





Type	Pack Piece	Weight kg/100 pc.	Item no.
ZABF	1	86.000	**2362979**

Zinc repair paint for blank areas on the hot galvanised steel parts, to eliminate grinding and welding damage on the galvanisation and to adapt ungalvanised small parts on galvanised structures.
Resistant to normal weathering influences. Light shade, similar to zinc. Before paint application, the substrate must be carefully cleaned and roughened. Paint application with a brush.

Anti-slip strip

GUM

Anti-slip strip

Type		Pack m	Weight kg/100 m	Item no.
ARS BKR		11	10.070	**6049259**

Self-adhesive, anti-slip strip to stick onto the Z-shaped barrier in walkable cable trays, for securing laid-on but not yet attached covers.



Chequer plate lid DBKR

St FS

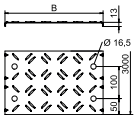
Chequer plate cover DBKR

Type	Dim. B mm	Dim. b mm	Dim. L mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
DBKR 100 FS	100	50	3000	3.30	3	195.070	**6049119**
DBKR 200 FS	200	50	3000	3.30	3	352.067	**6049121**
DBKR 300 FS	300	50	3000	3.30	3	509.070	**6049123**
DBKR 400 FS	400	50	3000	3.30	3	666.070	**6049125**
DBKR 500 FS	500	50	3000	3.30	3	823.070	**6049127**
DBKR 600 FS	600	50	3000	3.30	3	980.070	**6049129**

Chequer plate cover for the walkable cable tray system, type BKR.
The cover thickness is comprised of 2.0 mm of strip-galvanised sheet steel and a 1.3 mm chequer height.
Pre-marked break-out openings at a spacing of 100 mm allow retroinstallation of a turn buckle.

The covers are tested according to DIN51130 and possess anti-slip class R11 and displacement space class V10.

Cover fastenings are not part of the scope of delivery and can be ordered separately.





Lid clamp

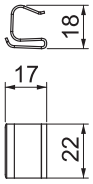
St G

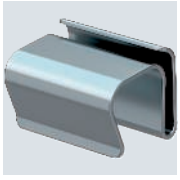
Cover clamp

Type		Pack Piece	Weight kg/100 pc.	Item no.
DK DBKR G		30	0.794	**6049280**

Cover clamp for rapid fastening of the chequer plate cover, type DBKR, on cable trays.

We recommend using at least 6 cover clamps for 3 metres of chequer plate cover.





Lid lifter

St FS

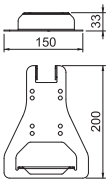
Cover lifter for chequer plate cover

Type	Length mm	Width mm	Height mm	Pack Pair	Weight kg/100 pairs	Item no.
DH DBKR FS	200	150	33	1	22.100	**6049285**

Using the cover lifter, chequer plate covers installed with cover clamps can be dismantled quickly and simply.

Position the cover lifter at pairs of the cover clamps and remove the chequer plate cover evenly. Repeat the operation in the lengthwise direction until the whole cover has been removed.

Alternatively, the cover lifter can be used as a template for the connector perforation with cable trays cut during construction. For this, turn the cover lifter through 180° and position on the cable tray. Then use the perforation template appropriate to the side height.





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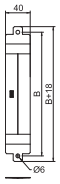
Always indicate the item number when ordering.

Dust protection element

Dust protection element and joint plate

St FS





Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSE SSLB 100 FS	100	1	1.574	**6049290**
SSE SSLB 200 FS	200	1	3.145	**6049292**
SSE SSLB 300 FS	300	1	4.716	**6049294**
SSE SSLB 400 FS	400	1	6.287	**6049296**
SSE SSLB 500 FS	500	1	7.858	**6049298**
SSE SSLB 600 FS	600	1	9.429	**6049300**

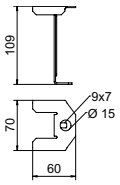
Dust protection element for use between chequer plate covers and aluminium chequer plates for walkable BKRS cable tray systems, as protection against dust and chips, etc.
The component can alternatively be used as a joint plate in the walkable cable tray, to bridge construction interfaces.

Cover support

Cover support 110

St FS





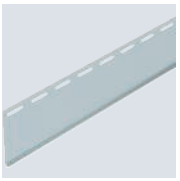
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
DST110 BKRS FS	110	10	11.200	**6049256**

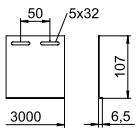
Cover support for the walkable BKRS cable tray system, for additional support of covers at a side height of 110 mm.

Protective panel

Protective panel 108

St FS





Type	Length mm	Height mm	Thickness mm	Pack m	Weight kg/100 m	Item no.
SB BKS FS	3000	108	1	3	91.670	**6049252**

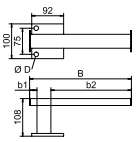
Protective panel, to be attached at the side as a collision guard for the walkable BKRS cable tray system. The side height is 108 mm.

Support bracket

BKRS support bracket

St FT





Type	Dim. B mm	Dim. b1 mm	Dim. b2 mm	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
STA BKRS 300 FT	292	23	229	300	1	122.700	**6044545**
STA BKRS 400 FT	392	23	329	400	1	138.700	**6044547**
STA BKRS 500 FT	492	123	329	500	1	155.700	**6044551**
STA BKRS 600 FT	592	223	329	600	1	172.700	**6044553**

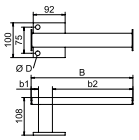
Support bracket, made of closed rectangular steel pipe, as a stand-off of the walkable cable tray system.

Support bracket

St FT

BKRS support bracket

Type	Dim. B mm	Dim. b1 mm	Dim. b2 mm	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
STA BKRS 100 FT	92	11	61	100	1	83.700	**6044541**
STA BKRS 200 FT	192	11	161	200	1	100.700	**6044543**





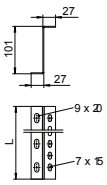
Support bracket, made of closed rectangular steel pipe, as a stand-off of the walkable cable tray system.

Support profile

St FS

Support profile 100

Type	Dim. L mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
STP Z 1010 FS	100	2.00	1	22.500	**6044581**
STP Z 1020 FS	200	2.00	1	44.800	**6044583**
STP Z 1030 FS	300	2.00	1	67.200	**6044585**
STP Z 1040 FS	400	2.00	1	89.500	**6044587**
STP Z 1050 FS	500	2.00	1	111.800	**6044589**
STP Z 1060 FS	600	2.00	1	127.340	**6044591**
STP Z 10300 FS	3000	2.00	3	223.400	**6044596**





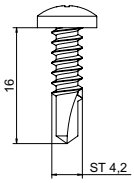
Support profile for holding up the walkable cable tray system BKRS from the floor. Installation must be performed on both sides of the Z profile during the process of securing the system so that it is held up.

Drilling screw

St G

Drilling screw

Type	Dimen-sion mm	Pack Piece	Weight kg/100 pc.	Item no.
BS BKS KP	4,2x16	100	0.180	**6049250**





Drilling screw to fasten components to the stand-offs of the walkable cable tray system. Corresponds to DIN 7504.

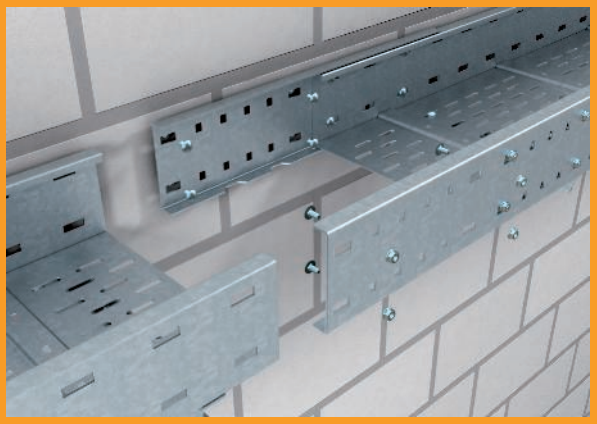
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Wide span cable tray systems

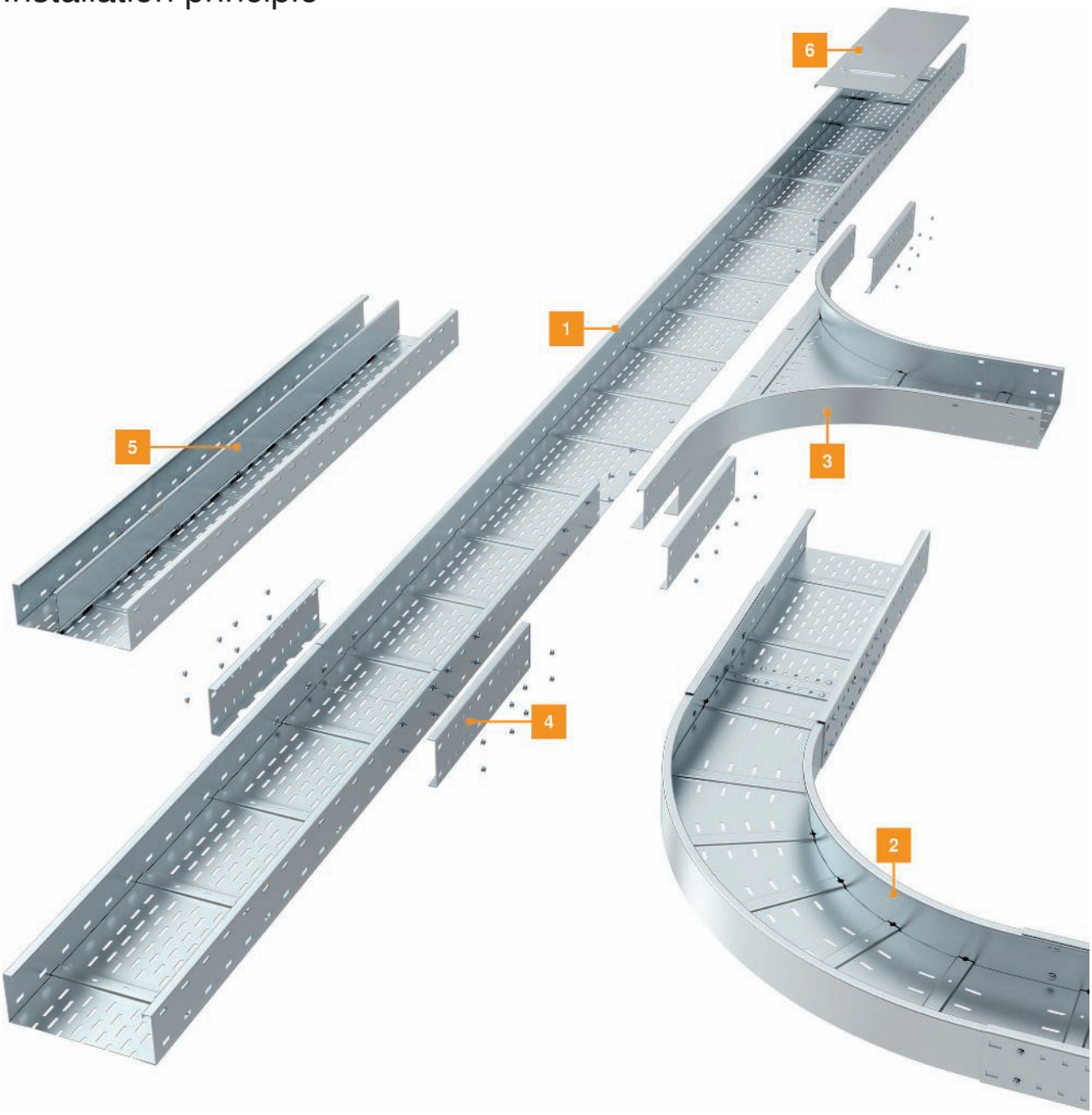
When you need to bridge wide spans and support high cable loads, the OBO wide span systems are the perfect solution. The product range comprises cable trays and cable ladders with widths of between 200 and 600 mm and side heights of 110 to 200 mm. Comprehensive system accessories, such as fittings and all the fastening materials for concrete and steel mounting, round off this product range perfectly.







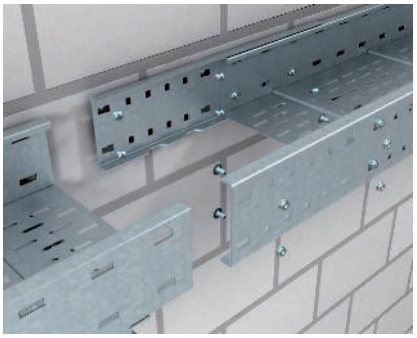
Installation principle



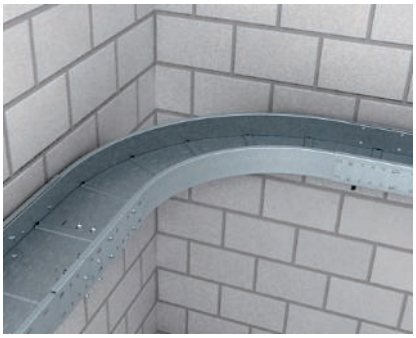
1	Wide span cable tray
2	90° bend
3	Add-on tee
4	Straight connector
5	Barrier strip
6	Cover with turn buckle

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Mounting aid



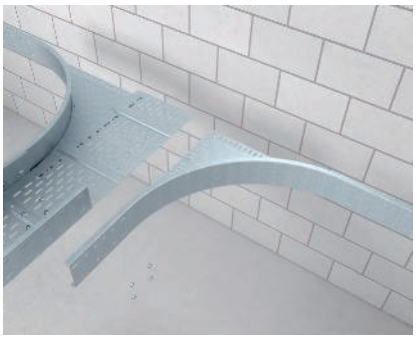
Wide span straight connection
Horizontal straight connection of wide span cable trays with straight connector set, type WRVL.



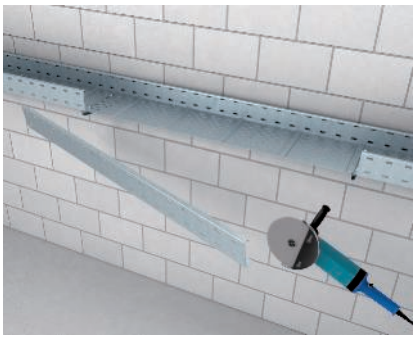
Installation of 90° bend
Bend in combination with wide span cable trays. The bend is connected to the wide span cable tray using external connectors and a joint plate.



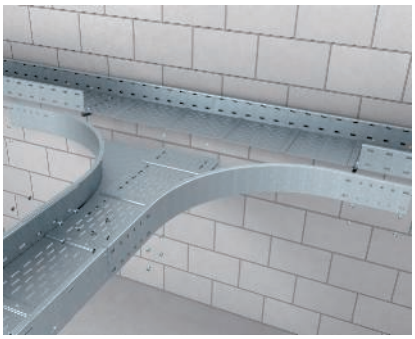
Creation of a tee with add-on corner
Removal of the side rails from the wide span tray.



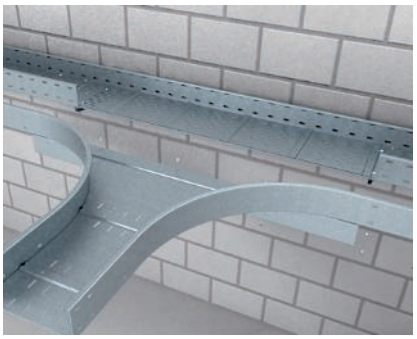
Creation of a tee with add-on corner
Installation of the second add-on corner, type WEAS 110.



Creation of a tee with add-on corner
Removal of the side rail from the ongoing wide span tray.



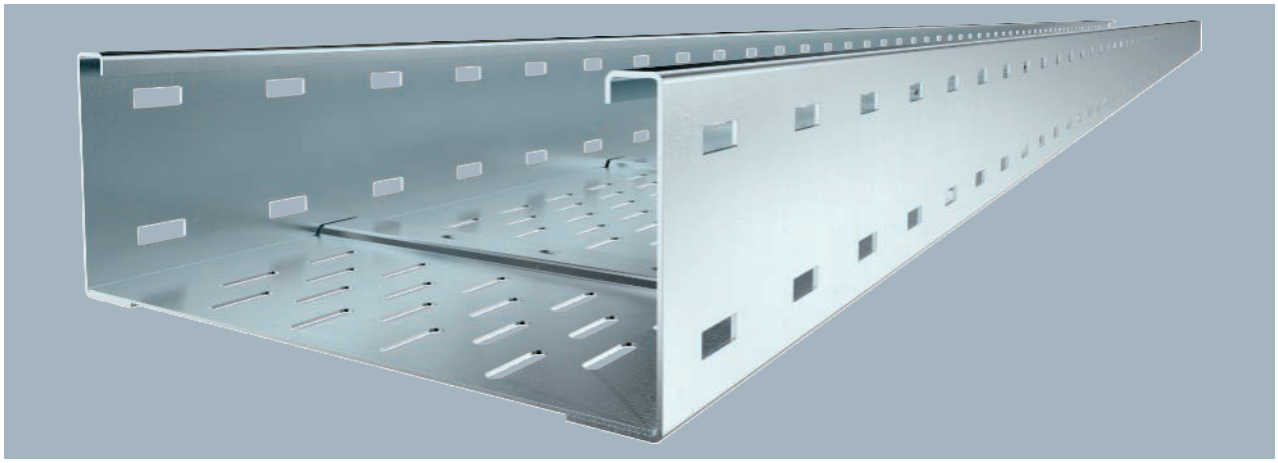
Creation of a tee with add-on corner
Installation of the finished branch to the ongoing wide span tray.



Mounting of mounting/branch piece
Add-on tee in combination with wide span cable tray. The side rail is removed for installation.

St FS

Wide span cable tray WKSG 110

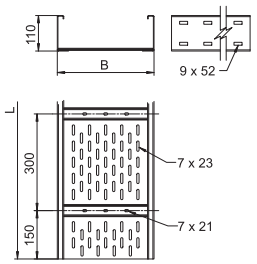


Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

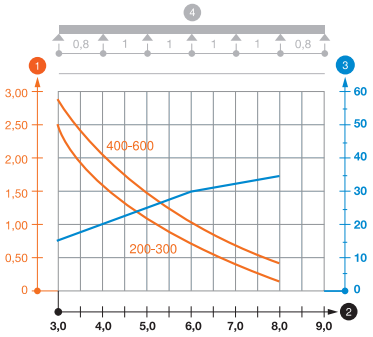
Type	Width mm	Metal thickness mm		Pack m	Weight kg/100 m	Item no.
WKSG 120 FS	200	2.00		6	712.610	**6098111**
WKSG 130 FS	300	2.00		6	817.250	**6098115**
WKSG 140 FS	400	2.00		6	921.900	**6098119**
WKSG 150 FS	500	2.00		6	1,023.340	**6098123**
WKSG 160 FS	600	2.00		6	1,131.170	**6098127**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 120 FS	6000	200	202
WKSG 130 FS	6000	300	305
WKSG 140 FS	6000	400	408
WKSG 150 FS	6000	500	511
WKSG 160 FS	6000	600	614

Load



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 120 FS	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 FS	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 FS	2.9	2	1.5	1	0.7	0.4
WKSG 150 FS	2.9	2	1.5	1	0.7	0.4
WKSG 160 FS	2.9	2	1.5	1	0.7	0.4

Load diagram, wide span cable tray, type WKSG 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

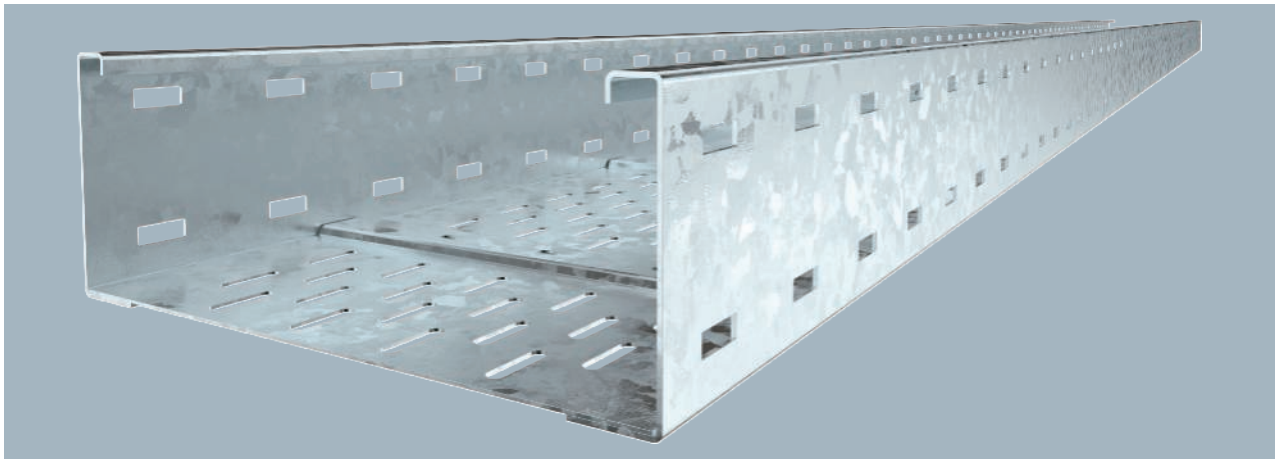
Always indicate the item number when ordering.

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Wide span cable tray, side height 110

Wide span cable tray WKSG 110

St FT



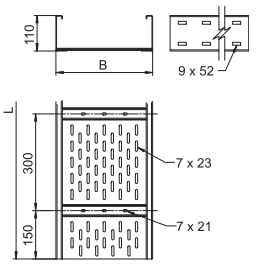
Type	Width mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
WKSG 120 FT	200	2.00	6	751.570	**6098141**
WKSG 130 FT	300	2.00	6	863.150	**6098145**
WKSG 140 FT	400	2.00	6	974.740	**6098149**
WKSG 150 FT	500	2.00	6	1,086.320	**6098153**
WKSG 160 FT	600	2.00	6	1,197.890	**6098157**

Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

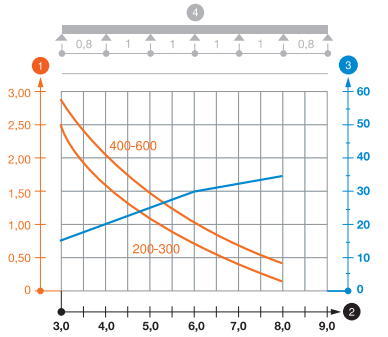
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 120 FT	6000	200	202
WKSG 130 FT	6000	300	305
WKSG 140 FT	6000	400	408
WKSG 150 FT	6000	500	511
WKSG 160 FT	6000	600	614

Dimensions



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 120 FT	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 FT	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 FT	2.9	2	1.5	1	0.7	0.4
WKSG 150 FT	2.9	2	1.5	1	0.7	0.4
WKSG 160 FT	2.9	2	1.5	1	0.7	0.4

Load



Load diagram, wide span cable tray, type WKSG 110

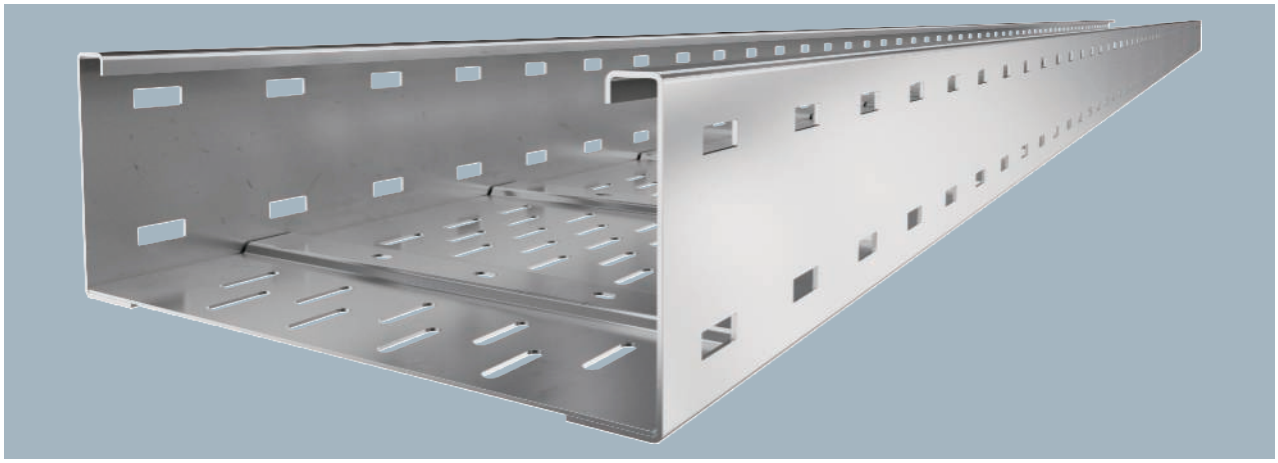
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

Wide span cable tray WKSG 110

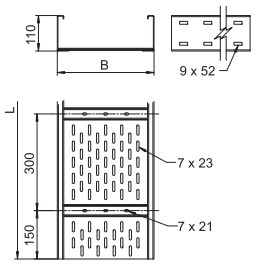


Wide span cable tray system, perforated, with a side height of 110 mm.

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

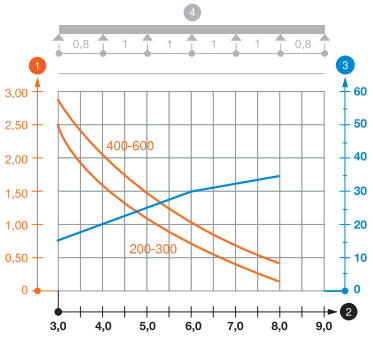
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 120 A2	200	2.00	6	713.833	**6098161**
WKSG 130 A2	300	2.00	6	821.933	**6098165**
WKSG 140 A2	400	2.00	6	927.100	**6098169**
WKSG 150 A2	500	2.00	6	1,041.600	**6098173**
WKSG 160 A2	600	2.00	6	1,143.283	**6098177**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 120 A2	6000	200	202
WKSG 130 A2	6000	300	305
WKSG 140 A2	6000	400	408
WKSG 150 A2	6000	500	511
WKSG 160 A2	6000	600	614

Load



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 120 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 130 A2	2.5	1.6	1.1	0.75	0.45	0.2
WKSG 140 A2	2.9	2	1.5	1	0.7	0.4
WKSG 150 A2	2.9	2	1.5	1	0.7	0.4
WKSG 160 A2	2.9	2	1.5	1	0.7	0.4

Load diagram, wide span cable tray, type WKSG 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

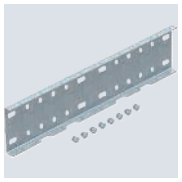
Always indicate the item number when ordering.

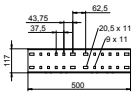
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Wide span cable tray, side height 110

Straight connector 110

St FS FT





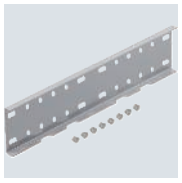
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 FS	110	2	152.400	**6091164**
WRVL 110 FT	110	2	157.800	**6091180**

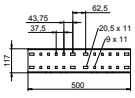
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

Straight connector 110

A2 2B





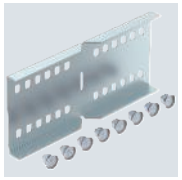
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 A2	110	2	154.200	**6091229**

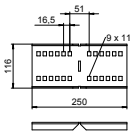
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

Angle connector 110

St FS





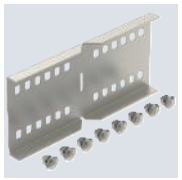
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 FS	110	2	83.800	**6091377**

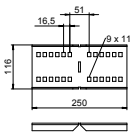
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Angle connector 110

A2 2B





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 A2	110	2	82.000	**6091393**

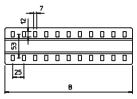
Including appropriate bolts, washers and nuts.

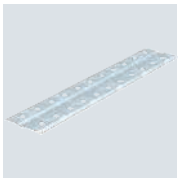
Angle connector for wide span cable trays and ladders with a side height of 110 mm.

St FS DD

Joint plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 FS	100	20	7.700	7070205
SSLB 150 FS	150	20	14.000	7070209
SSLB 200 FS	200	20	18.500	7070213
SSLB 300 FS	300	20	29.200	7070217
SSLB 400 FS	400	20	38.200	7070221
SSLB 500 FS	500	20	49.000	7070225
SSLB 600 FS	600	20	58.000	7070233
SSLB 100 DD	100	20	7.700	7070306
SSLB 150 DD	150	20	14.000	7070310
SSLB 200 DD	200	20	18.500	7070314
SSLB 300 DD	300	20	29.200	7070318
SSLB 400 DD	400	20	38.200	7070322
SSLB 500 DD	500	20	49.000	7070326
SSLB 600 DD	600	20	58.000	7070334



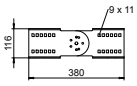


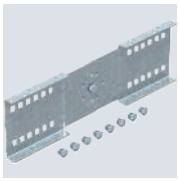
Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

St FS FT

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 FS	110	2	119.000	6091318
WRGV 110 FT	110	2	119.000	6091334



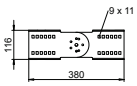


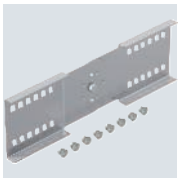
Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

A2 2B

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 A2	110	2	120.000	6091338



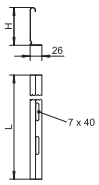


Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

St FS DD

Separating retainer 85

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331



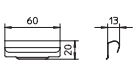


Separating retainer for separation of cables of different voltages or functions.

VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970





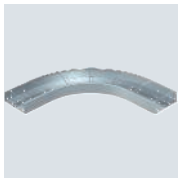
Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

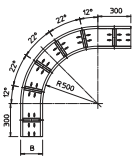
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Wide span cable tray, side height 110

90° bend 110

St FS



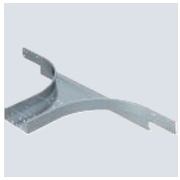


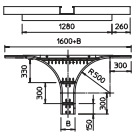
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRB 90 120 FS	110	200	1	1,145.500	**6098304**
WRB 90 130 FS	110	300	1	1,428.000	**6098308**
WRB 90 140 FS	110	400	1	1,652.400	**6098312**
WRB 90 150 FS	110	500	1	1,935.000	**6098316**
WRB 90 160 FS	110	600	1	2,234.000	**6098320**

90° bend, horizontal, for all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

Add-on tee 110

St FS





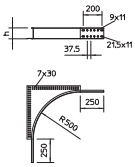
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRAA 120 FS	110	200	1	1,475.000	**6098405**
WRAA 130 FS	110	300	1	1,605.000	**6098409**
WRAA 140 FS	110	400	1	1,735.000	**6098413**
WRAA 150 FS	110	500	1	1,865.000	**6098417**
WRAA 160 FS	110	600	1	1,995.000	**6098421**

Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

Corner extension piece 110

St FS FT





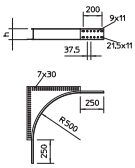
Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 110 FS	110	1	485.500	**6098475**
WEAS 110 FT	110	1	586.200	**6098479**

Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

Corner extension piece 110

A2 2B



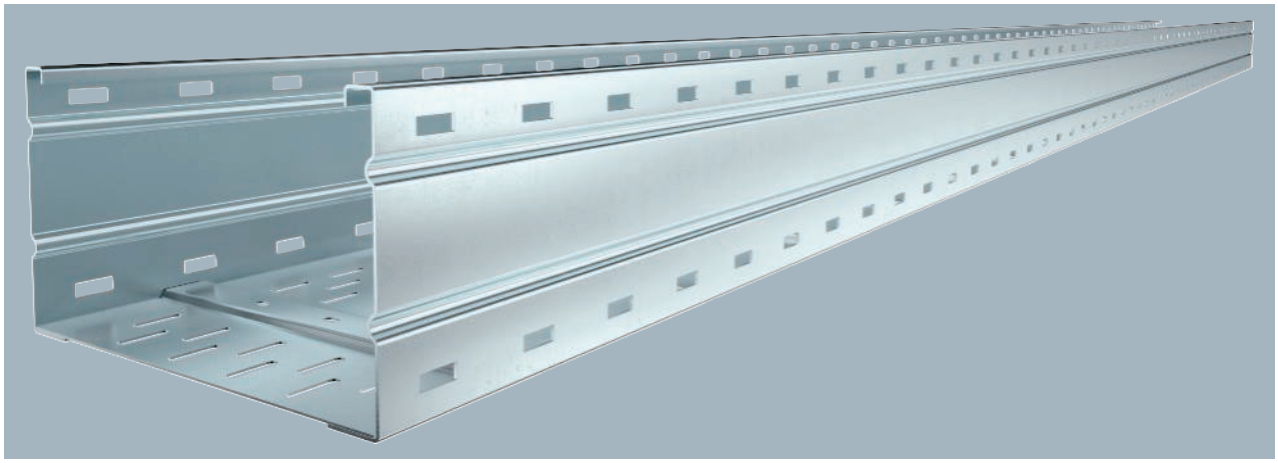


Type	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WEAS 110 A2	110	1	485.500	**6098483**

Corner extension piece for wide span cable trays and ladders with a side height of 110 mm.

St FS

Wide span cable tray WKSG 160

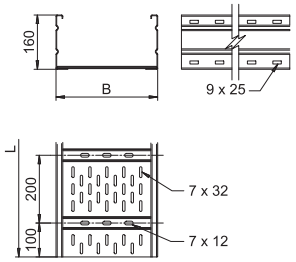


Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

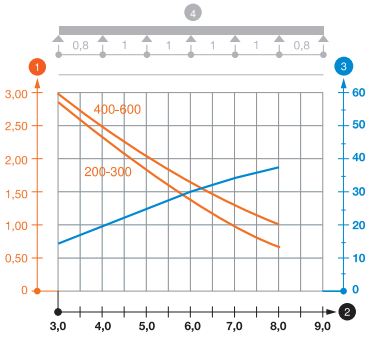
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 162 FS	200	2.00	6	895.067	**6098501**
WKSG 163 FS	300	2.00	6	1,003.170	**6098505**
WKSG 164 FS	400	2.00	6	1,108.340	**6098509**
WKSG 165 FS	500	2.00	6	1,216.420	**6098513**
WKSG 166 FS	600	2.00	6	1,324.500	**6098517**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 162 FS	6000	200	302
WKSG 163 FS	6000	300	455
WKSG 164 FS	6000	400	608
WKSG 165 FS	6000	500	761
WKSG 166 FS	6000	600	914

Load



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 FS	2.9	2.3	1.8	1.4	1	0.7
WKSG 163 FS	2.9	2.3	1.8	1.4	1	0.7
WKSG 164 FS	3	2.5	2	1.6	1.3	1
WKSG 165 FS	3	2.5	2	1.6	1.3	1
WKSG 166 FS	3	2.5	2	1.6	1.3	1

Load diagram, wide span cable tray, type WKSG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

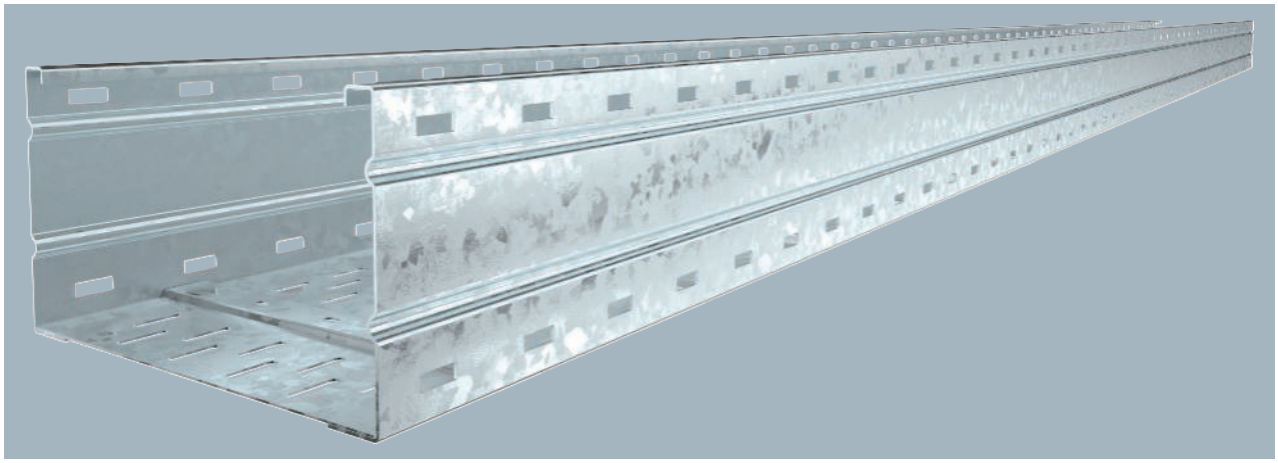
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Always indicate the item number when ordering.

Wide span cable tray, side height 160

Wide span cable tray WKSG 160

St FT



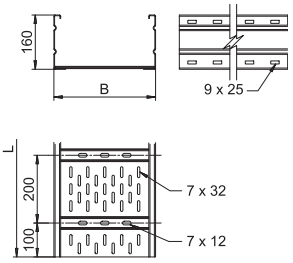
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 162 FT	200	2.00	6	920.450	**6098550**
WKSG 163 FT	300	2.00	6	1,058.370	**6098554**
WKSG 164 FT	400	2.00	6	1,170.520	**6098558**
WKSG 165 FT	500	2.00	6	1,285.770	**6098562**
WKSG 166 FT	600	2.00	6	1,379.550	**6098566**

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

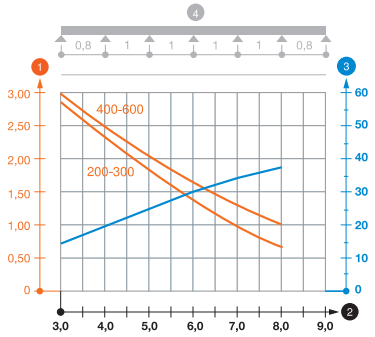
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 162 FT	6000	200	302
WKSG 163 FT	6000	300	455
WKSG 164 FT	6000	400	608
WKSG 165 FT	6000	500	761
WKSG 166 FT	6000	600	914

Dimensions



	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 FT	1.8	1.4	1	0.7
WKSG 163 FT	1.8	1.4	1	0.7
WKSG 164 FT	2	1.6	1.3	1
WKSG 165 FT	2	1.6	1.3	1
WKSG 166 FT	2	1.6	1.3	1

Load



Load diagram, wide span cable tray, type WKSG 160

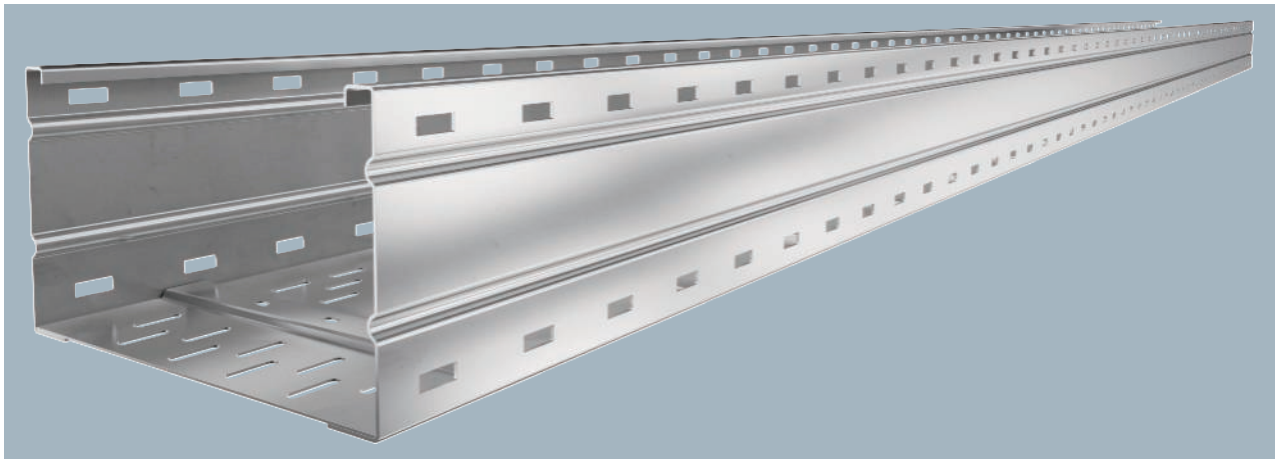
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

Wide span cable tray WKSG 160

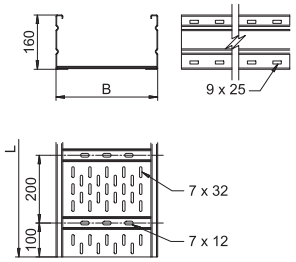


Straight connectors of type WRVL 160 should be ordered separately and in the appropriate quantity.

Wide span cable tray system, perforated, with a side height of 160 mm.

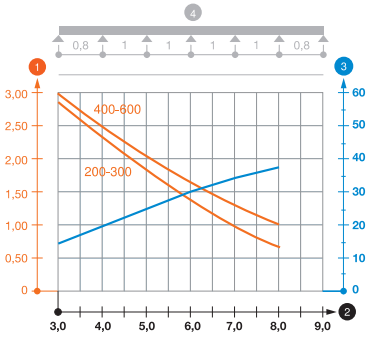
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WKSG 162 A2	200	2.00	6	895.067	**6098571**
WKSG 163 A2	300	2.00	6	1,003.167	**6098573**
WKSG 164 A2	400	2.00	6	1,108.333	**6098575**
WKSG 165 A2	500	2.00	6	1,216.417	**6098577**
WKSG 166 A2	600	2.00	6	1,324.170	**6098579**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKSG 162 A2	6000	200	302
WKSG 163 A2	6000	300	455
WKSG 164 A2	6000	400	608
WKSG 165 A2	6000	500	761
WKSG 166 A2	6000	600	914

Load



	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKSG 162 A2	2.9	2.3	1.8	1.4	1	0.7
WKSG 163 A2	2.9	2.3	1.8	1.4	1	0.7
WKSG 164 A2	3	2.5	2	1.6	1.3	1
WKSG 165 A2	3	2.5	2	1.6	1.3	1
WKSG 166 A2	3	2.5	2	1.6	1.3	1

Load diagram, wide span cable tray, type WKSG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

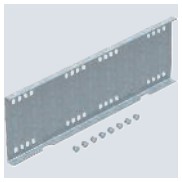
— Strut bend curve according to support width

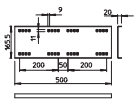
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Wide span cable tray, side height 160

Straight connector 160

St FS FT





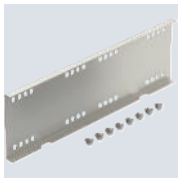
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 FS	160	2	218.000	**6227708**
WRVL 160 FT	160	2	218.000	**6227716**

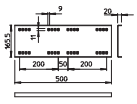
Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

Straight connector 160

A2 2B





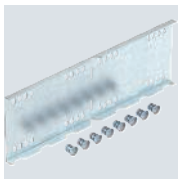
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 A2	160	2	218.000	**6227724**

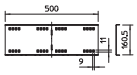
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 160 mm.

Including appropriate bolts, washers and nuts.

Angle connector 160

St FS





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 FS	160	2	199.800	**6227832**

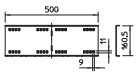
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

Angle connector 160

A2 2B





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 A2	160	2	199.800	**6227836**

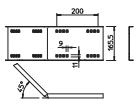
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 160 mm.

45° angle connector, internal 160

St FS FT





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 I FS	160	1	234.000	**6227902**
WRWV 160 I FT	160	1	234.000	**6227910**

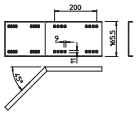
Including appropriate bolts, washers and nuts.

45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

45° angle connector, external 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 A FS	160	1	234.000	6227856
WRWV 160 A FT	160	1	234.000	6227864



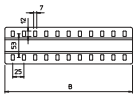


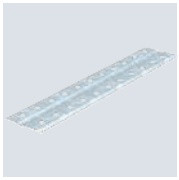
Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

St FS DD

Joint plate

Type	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
SSLB 100 FS	100	20	7.700	7070205
SSLB 150 FS	150	20	14.000	7070209
SSLB 200 FS	200	20	18.500	7070213
SSLB 300 FS	300	20	29.200	7070217
SSLB 400 FS	400	20	38.200	7070221
SSLB 500 FS	500	20	49.000	7070225
SSLB 600 FS	600	20	58.000	7070233
SSLB 100 DD	100	20	7.700	7070306
SSLB 150 DD	150	20	14.000	7070310
SSLB 200 DD	200	20	18.500	7070314
SSLB 300 DD	300	20	29.200	7070318
SSLB 400 DD	400	20	38.200	7070322
SSLB 500 DD	500	20	49.000	7070326
SSLB 600 DD	600	20	58.000	7070334



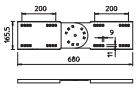


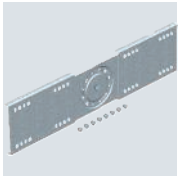
Wide joint plate for use in all cable trays and wide span cable trays.
Including appropriate fastening material.

St FS FT

Adjustable connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 FS	160	2	306.100	6227953
WRGV 160 FT	160	2	316.700	6227961



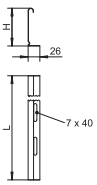


Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

St FS DD

Separating retainer 110

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	6062122
TSG 110 DD	110	0.75	3000	3	85.000	6062335



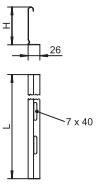


Separating retainer for separation of cables of different voltages or functions.

St FS

Separating retainer 135

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 135 FS	135	0.75	3000	3	99.800	6062132





Separating retainer for separation of cables of different voltages or functions.

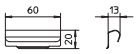
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Wide span cable tray, side height 160

Separating retainer connector

VA 2B



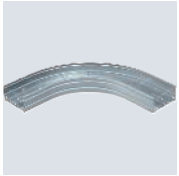


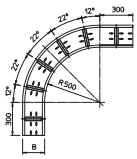
Type		Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2		10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

90° bend 160

St FS



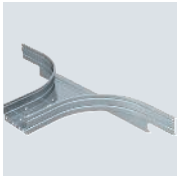


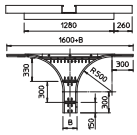
Type	Side height mm	Dim. B mm		Pack Piece	Weight kg/100 pc.	Item no.
WRB 90 162 FS	160	200		1	1,390.000	**6098703**
WRB 90 163 FS	160	300		1	1,664.000	**6098707**
WRB 90 164 FS	160	400		1	1,920.000	**6098711**
WRB 90 165 FS	160	500		1	2,214.000	**6098715**
WRB 90 166 FS	160	600		1	2,526.000	**6098719**

90° bend, horizontal, for all wide span cable trays of 160 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

Add-on tee 160

St FS



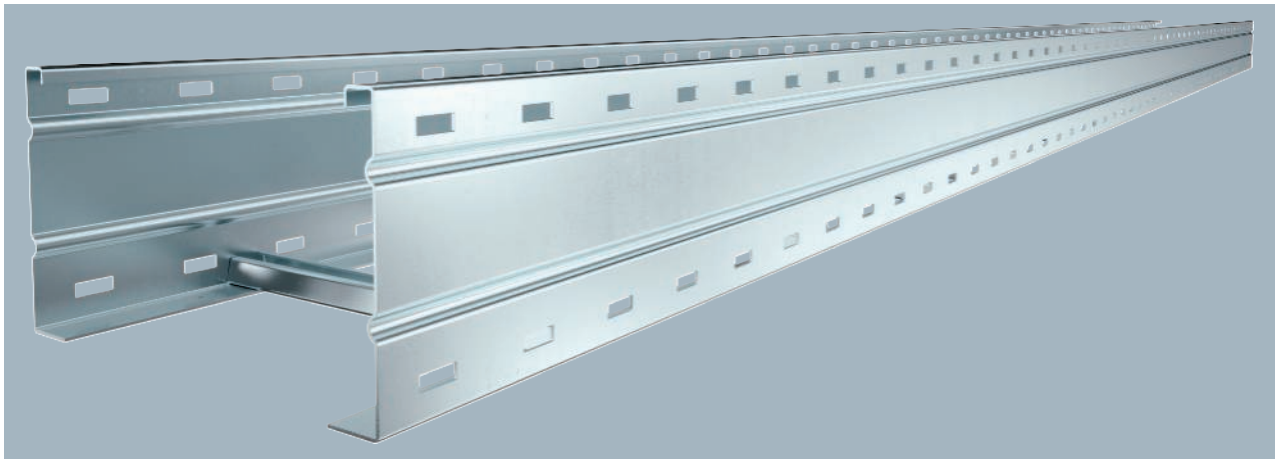


Type	Side height mm	Dim. B mm		Pack Piece	Weight kg/100 pc.	Item no.
WRAA 162 FS	160	200		1	1,783.000	**6098800**
WRAA 163 FS	160	300		1	1,938.000	**6098804**
WRAA 164 FS	160	400		1	2,075.000	**6098808**
WRAA 165 FS	160	500		1	2,240.000	**6098812**
WRAA 166 FS	160	600		1	2,350.000	**6098816**

Add-on tee for horizontal use. For all wide span cable trays of 160 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

St FS

Wide span cable ladder WKLG 160

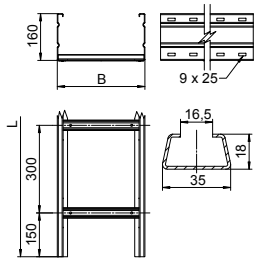


Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056.

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

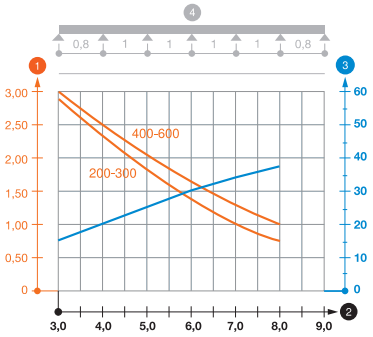
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1620 FS	200	2	6	737.334	**6227023**
WKLG 1630 FS	300	2	6	767.334	**6227031**
WKLG 1640 FS	400	2	6	797.834	**6227058**
WKLG 1650 FS	500	2	6	828.500	**6227066**
WKLG 1660 FS	600	2	6	859.334	**6227074**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1620 FS	6000	200	282
WKLG 1630 FS	6000	300	427
WKLG 1640 FS	6000	400	572
WKLG 1650 FS	6000	500	717
WKLG 1660 FS	6000	600	857

Load



	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 FS	1.8	1.4	1	0.7
WKLG 1630 FS	1.8	1.4	1	0.7
WKLG 1640 FS	2	1.6	1.3	1
WKLG 1650 FS	2	1.6	1.3	1
WKLG 1660 FS	2	1.6	1.3	1

Load diagram, wide span cable ladder, type WKLG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

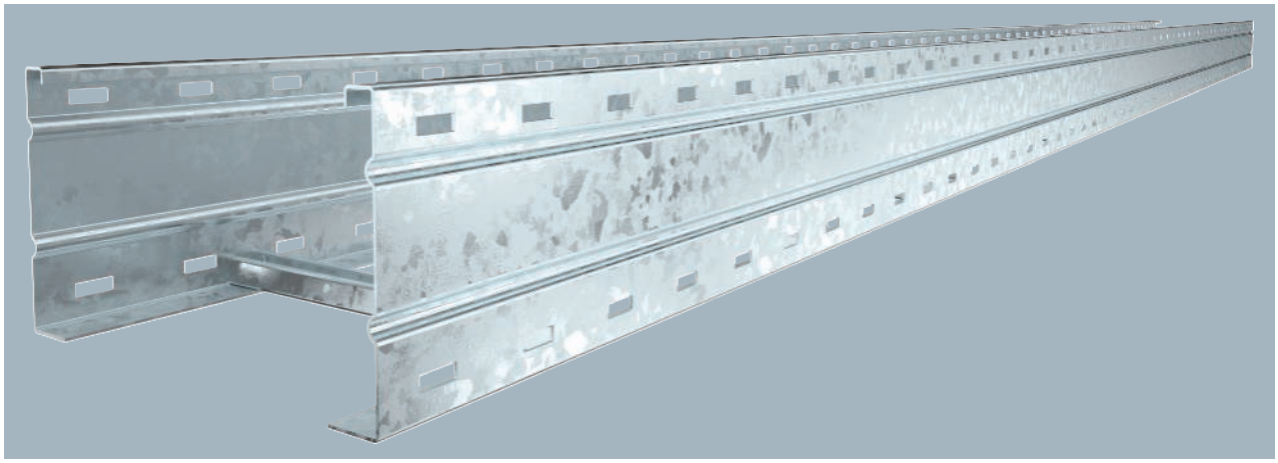
— Strut bend curve according to support width

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WKLG wide span cable ladder system, side height 160

Wide span cable ladder WKLG 160

St FT



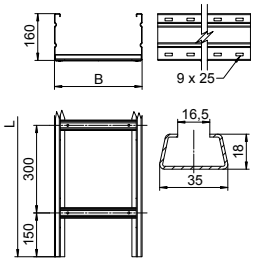
Type	Width mm	Rail thick-ness mm		Pack m	Weight kg/100 m	Item no.
WKLG 1620 FT	200	2		6	770.667	**6227120**
WKLG 1630 FT	300	2		6	802.500	**6227139**
WKLG 1640 FT	400	2		6	835.000	**6227147**
WKLG 1650 FT	500	2		6	867.334	**6227155**
WKLG 1660 FT	600	2		6	900.000	**6227163**

Wide span cable ladder with perforated side rail of side height of 160 mm. Fastening of cables with clamp clip, type 2056.

Straight connectors of type WRV 160 should be ordered separately and in the appropriate quantity.

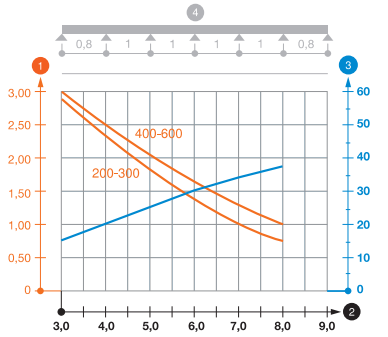
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1620 FT	6000	200	282
WKLG 1630 FT	6000	300	427
WKLG 1640 FT	6000	400	572
WKLG 1650 FT	6000	500	717
WKLG 1660 FT	6000	600	857

Dimensions



	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m
WKLG 1620 FT	1.8	1.4	1	0.7
WKLG 1630 FT	1.8	1.4	1	0.7
WKLG 1640 FT	2	1.6	1.3	1
WKLG 1650 FT	2	1.6	1.3	1
WKLG 1660 FT	2	1.6	1.3	1

Load



Load diagram, wide span cable ladder, type WKLG 160

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

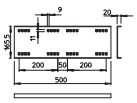
— Load curve with cable tray/ladder width in mm

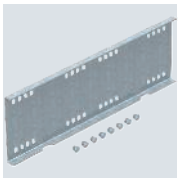
— Strut bend curve according to support width

St FS FT

Straight connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 160 FS	160	2	218.000	**6227708**
WRVL 160 FT	160	2	218.000	**6227716**



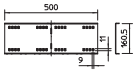


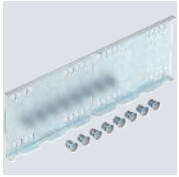
Straight connector for the connection of wide span cable trays and ladders of types WKSG and WKLG with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

St FS

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 FS	160	2	199.800	**6227832**



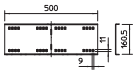


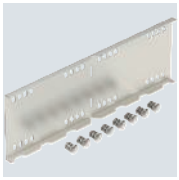
Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 160 mm.

A2 2B

Angle connector 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 160 A2	160	2	199.800	**6227836**



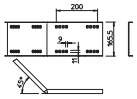


Including appropriate bolts, washers and nuts.
Angle connector for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

45° angle connector, internal 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 I FS	160	1	234.000	**6227902**
WRWV 160 I FT	160	1	234.000	**6227910**



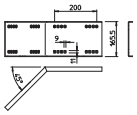


Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

St FS FT

45° angle connector, external 160

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWV 160 A FS	160	1	234.000	**6227856**
WRWV 160 A FT	160	1	234.000	**6227864**





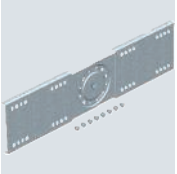
Including appropriate bolts, washers and nuts.
45° angle connector, horizontal, for wide span cable trays and ladders with a side height of 160 mm.

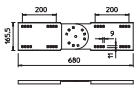
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WKLG wide span cable ladder system, side height 160

Adjustable connector 160

St FS FT





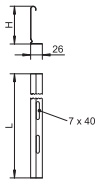
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 160 FS	160	2	306.100	**6227953**
WRGV 160 FT	160	2	316.700	**6227961**

Adjustable connector for wide span cable trays and ladders with a side height of 160 mm.
Including appropriate bolts, washers and nuts.

Separating retainer 110

St FS DD





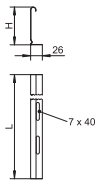
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	**6062122**
TSG 110 DD	110	0.75	3000	3	85.000	**6062335**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer 135

St FS





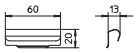
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 135 FS	135	0.75	3000	3	99.800	**6062132**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B





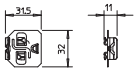
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

VA 2B





Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	**6062284**

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

St FS

Wide span cable ladder WKLG 110

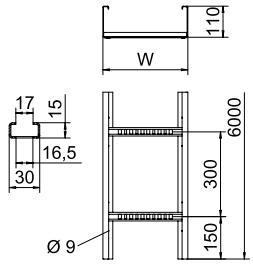


Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

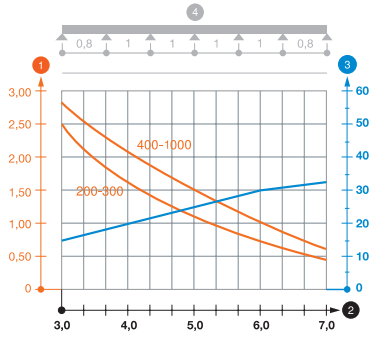
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 FS	200	2	6	560.400	**6311008**
WKLG 1130 FS	300	2	6	583.000	**6311012**
WKLG 1140 FS	400	2	6	605.800	**6311016**
WKLG 1150 FS	500	2	6	628.833	**6311020**
WKLG 1160 FS	600	2	6	652.000	**6311024**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1120 FS	6000	200	186
WKLG 1130 FS	6000	300	281
WKLG 1140 FS	6000	400	376
WKLG 1150 FS	6000	500	471
WKLG 1160 FS	6000	600	566

Load



	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 FS	1.6	1.1	0.8	0.4
WKLG 1130 FS	1.6	1.1	0.8	0.4
WKLG 1140 FS	2.1	1.5	1	0.7
WKLG 1150 FS	2.1	1.5	1	0.7
WKLG 1160 FS	2.1	1.5	1	0.7

Load diagram, wide span cable ladder, type WKLG 110

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

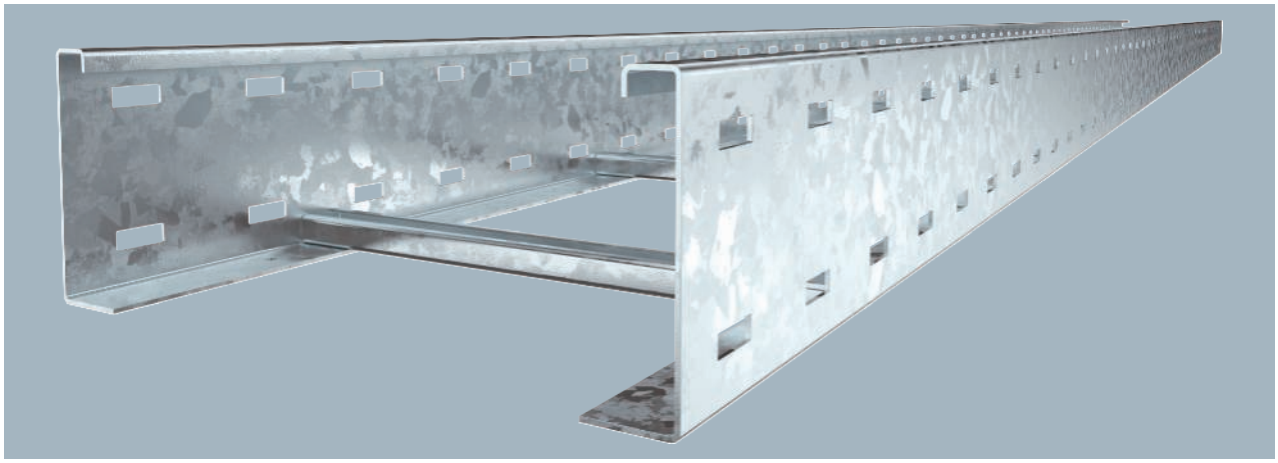
Always indicate the item number when ordering.

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WKLG wide span cable ladder system, side height 110

Wide span cable ladder WKLG 110

St FT



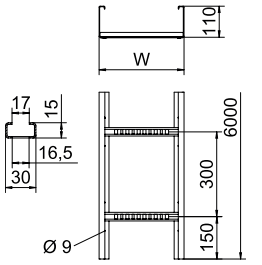
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 FT	200	2	6	589.000	**6311059**
WKLG 1130 FT	300	2	6	612.800	**6311063**
WKLG 1140 FT	400	2	6	637.166	**6311067**
WKLG 1150 FT	500	2	6	662.066	**6311071**
WKLG 1160 FT	600	2	6	686.600	**6311075**

Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

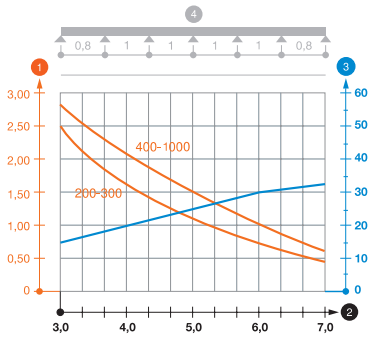
Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1120 FT	6000	200	186
WKLG 1130 FT	6000	300	281
WKLG 1140 FT	6000	400	376
WKLG 1150 FT	6000	500	471
WKLG 1160 FT	6000	600	566

Dimensions



	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 FT	1.6	1.1	0.8	0.4
WKLG 1130 FT	1.6	1.1	0.8	0.4
WKLG 1140 FT	2.1	1.5	1	0.7
WKLG 1150 FT	2.1	1.5	1	0.7
WKLG 1160 FT	2.1	1.5	1	0.7

Load



Load diagram, wide span cable ladder, type WKLG 110

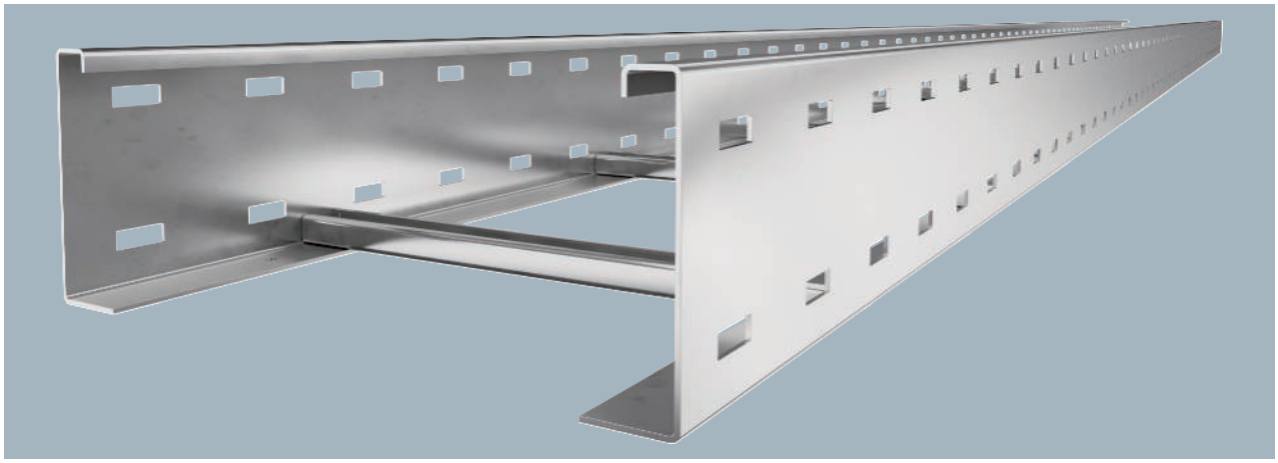
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

Wide span cable ladder WKLG 110

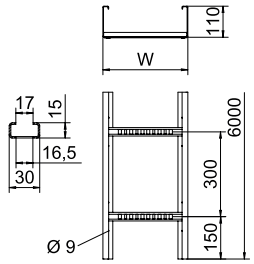


Straight connectors of type WRVL 110 should be ordered separately and in the appropriate quantity.

Wide span cable ladder with perforated side rails of side height of 110 mm. Fastening of cables with clamp clip, type 2056.

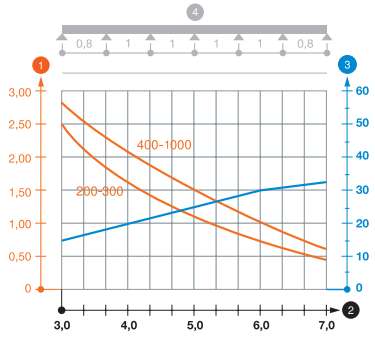
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKLG 1120 A2	200	2	6	560.400	**6311202**
WKLG 1130 A2	300	2	6	582.800	**6311206**
WKLG 1140 A2	400	2	6	605.800	**6311210**
WKLG 1150 A2	500	2	6	628.866	**6311214**
WKLG 1160 A2	600	2	6	652.000	**6311218**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKLG 1120 A2	6000	200	186
WKLG 1130 A2	6000	300	281
WKLG 1140 A2	6000	400	376
WKLG 1150 A2	6000	500	471
WKLG 1160 A2	6000	600	566

Load



	4.0 m kN/m	5.0 m kN/m	6.0 m kN/m	7.0 m kN/m
WKLG 1120 A2	1.6	1.1	0.8	0.4
WKLG 1130 A2	1.6	1.1	0.8	0.4
WKLG 1140 A2	2.1	1.5	1	0.7
WKLG 1150 A2	2.1	1.5	1	0.7
WKLG 1160 A2	2.1	1.5	1	0.7

Load diagram, wide span cable ladder, type WKLG 110.

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Always indicate the item number when ordering.

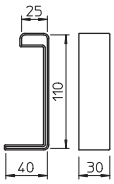
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

WKLG wide span cable ladder system, side height 110

End cap 110

PVC



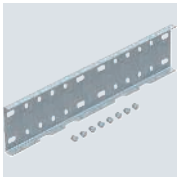


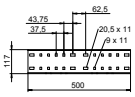
Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKHW 110 OR	Pastel orange	20	4.400	**6310398**

End cap to cover the ends of wide span cable ladders.

Straight connector 110

St FS FT





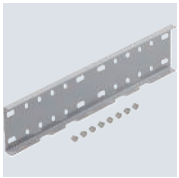
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 FS	110	2	152.400	**6091164**
WRVL 110 FT	110	2	157.800	**6091180**

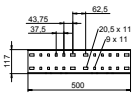
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

Straight connector 110

A2 2B





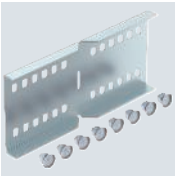
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRVL 110 A2	110	2	154.200	**6091229**

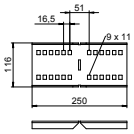
Straight connector for straight connections of cable trays, wide span cable trays and ladders with a side height of 110 mm.

Including appropriate bolts, washers and nuts.

Angle connector 110

St FS





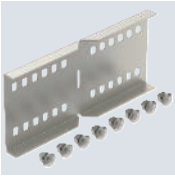
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 FS	110	2	83.800	**6091377**

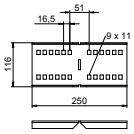
Including appropriate bolts, washers and nuts.

Angle connector for wide span cable trays and ladders with a side height of 110 mm.

Angle connector 110

A2 2B





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVK 110 A2	110	2	82.000	**6091393**

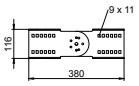
Including appropriate bolts, washers and nuts.

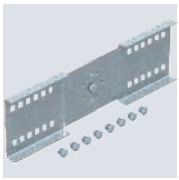
Angle connector for wide span cable trays and ladders with a side height of 110 mm.

St FS FT

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 FS	110	2	119.000	**6091318**
WRGV 110 FT	110	2	119.000	**6091334**



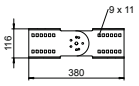


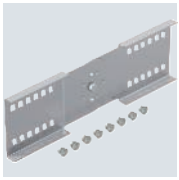
Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

A2 2B

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRGV 110 A2	110	2	120.000	**6091338**



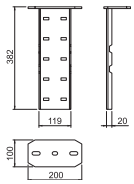


Adjustable connector for wide span cable trays and ladders with a side height of 110 mm.
Including appropriate bolts, washers and nuts.

St FT

Base plate for wide span systems

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WFP 110 FT	110	1	266.200	**6232500**



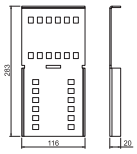


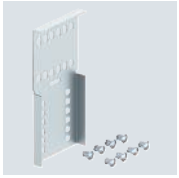
Including appropriate bolts, washers and nuts.
Base plate for accepting wide span systems, for example, for vertical routing of wide span cable trays.

St FS

Wide span angle connector, 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
WRWVV 110 FS	110	2	63.200	**6091379**



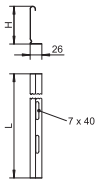


Including appropriate bolts, washers and nuts.
Angle connection to connect wide span cable trays and ladders running vertically and horizontally of side height 110 mm. Including fastening material.

St FS DD

Separating retainer 85

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**





Separating retainer for separation of cables of different voltages or functions.

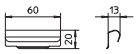
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

WKLG wide span cable ladder system, side height 110

Separating retainer connector

VA 2B





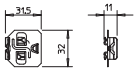
Type		Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2		10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

VA 2B





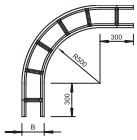
Type		Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2		30	0.512	**6062284**

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

90° bend 110

St FS



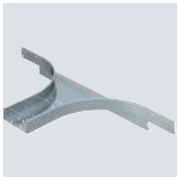


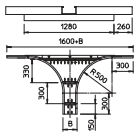
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLB 90 112 FS	200	2	1	881.800	**6312330**
WLB 90 113 FS	300	2	1	971.000	**6312349**
WLB 90 114 FS	400	2	1	1,052.100	**6312357**
WLB 90 115 FS	500	2	1	1,151.300	**6312365**
WLB 90 116 FS	600	2	1	1,330.000	**6312373**

For further stabilisation, additional supports should be planned for the area of the fittings.
90° bend, horizontal, for all wide span cable ladders of 110 mm side height.

Add-on tee 110

St FS





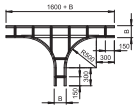
Type	Side height mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
WRAA 120 FS	110	200	1	1,475.000	**6098405**
WRAA 130 FS	110	300	1	1,605.000	**6098409**
WRAA 140 FS	110	400	1	1,735.000	**6098413**
WRAA 150 FS	110	500	1	1,865.000	**6098417**
WRAA 160 FS	110	600	1	1,995.000	**6098421**

Add-on tee for horizontal use. For all wide span cable trays of 110 mm side height.
For further stabilisation, additional supports should be planned for the area of the fittings.

T branch piece 110

St FS



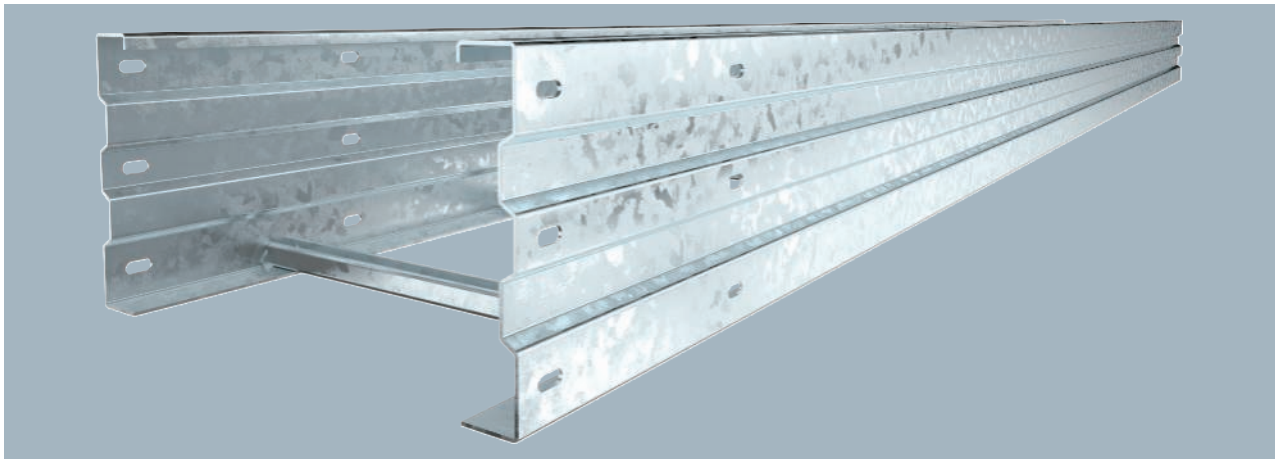


Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WLT 1120 FS	200	2	1	1,760.000	**6312632**
WLT 1130 FS	300	2	1	1,927.000	**6312640**
WLT 1140 FS	400	2	1	2,050.000	**6312659**
WLT 1150 FS	500	2	1	2,172.000	**6312667**
WLT 1160 FS	600	2	1	2,340.000	**6312675**

For further stabilisation, additional supports should be planned for the area of the fittings.
Horizontal T branch piece, for all wide span cable ladders of 110 mm side height.

St FT

WKL 200 wide span cable ladder

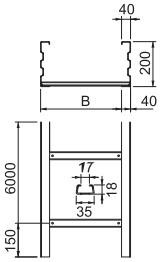


Straight connectors of type WRVL 200 should be ordered separately and in the appropriate quantity.

WKL 200 = Wide span cable ladder with 200 mm side height.

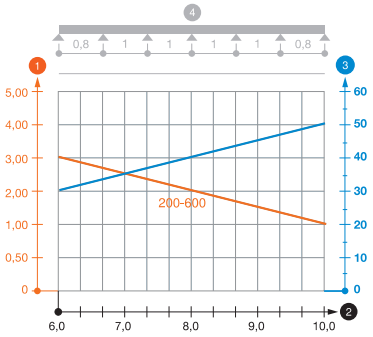
Type	Width mm	Rail thickness mm	Pack m	Weight kg/100 m	Item no.
WKL 2020 FT	200	2.5	6	1,320.000	**6232102**
WKL 2030 FT	300	2.5	6	1,358.334	**6232104**
WKL 2040 FT	400	2.5	6	1,398.340	**6232106**
WKL 2050 FT	500	2.5	6	1,440.000	**6232108**
WKL 2060 FT	600	2.5	6	1,480.000	**6232110**

Dimensions



Type	Dim. L mm	Dim. B mm	Usable cross-section cm²
WKL 2020 FT	6000	200	344
WKL 2030 FT	6000	300	524
WKL 2040 FT	6000	400	704
WKL 2050 FT	6000	500	884
WKL 2060 FT	6000	600	1064

Load



	6.0 m kN/m	7.0 m kN/m	8.0 m kN/m	9.0 m kN/m	10.0 m kN/m
WKL 2020 FT	3	2.5	2	1.4	1
WKL 2030 FT	3	2.5	2	1.4	1
WKL 2040 FT	3	2.5	2	1.4	1
WKL 2050 FT	3	2.5	2	1.4	1
WKL 2060 FT	3	2.5	2	1.4	1

Load diagram, wide span cable ladder, type WKL 200

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

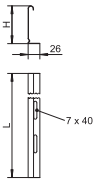
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS DD

Separating retainer 110

Type	Dim. H mm	Metal thickness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 110 FS	110	0.75	3000	3	85.000	**6062122**
TSG 110 DD	110	0.75	3000	3	85.000	**6062335**





Separating retainer for separation of cables of different voltages or functions.

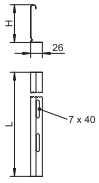
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

WKLG wide span cable ladder system, side height 200

Separating retainer 135

St FS





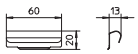
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 135 FS	135	0.75	3000	3	99.800	**6062132**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B





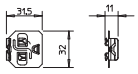
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

VA 2B





Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	**6062284**

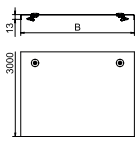
Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

System accessories

Cover with turn buckle

St FS DD





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WDRL 1116 20 FS	200	1.00	3000	3	181.340	**6227422**
WDRL 1116 30 FS	300	1.00	3000	3	259.670	**6227430**
WDRL 1116 40 FS	400	1.00	3000	3	516.670	**6227449**
WDRL 1116 50 FS	500	1.50	3000	3	623.000	**6227457**
WDRL 1116 60 FS	600	1.50	3000	3	741.000	**6227465**
WDRL 1116 20 DD	200	1.00	3000	3	185.000	**6227600**
WDRL 1116 30 DD	300	1.00	3000	3	263.340	**6227604**
WDRL 1116 40 DD	400	1.00	3000	3	505.000	**6227608**
WDRL 1116 50 DD	500	1.50	3000	3	626.670	**6227612**
WDRL 1116 60 DD	600	1.50	3000	3	744.333	**6227616**

Cover with turn buckles for wide span cable trays and wide span cable ladders with side heights of 110 and 160 mm.

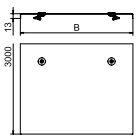
Take appropriate constructive protection measures if there are high wind speeds.

Transverse bead from 500 mm width.

St DD

Cover incl. turn buckles

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
WKLD 2020 DD	200	1.50	3000	3	188.000	**6232402**
WKLD 2030 DD	300	1.50	3000	3	266.670	**6232404**
WKLD 2040 DD	400	1.50	3000	3	427.670	**6232406**
WKLD 2050 DD	500	1.50	3000	3	527.340	**6232408**
WKLD 2060 DD	600	1.50	3000	3	673.340	**6232410**



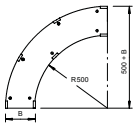


Cover for wide span ladders with the side height of 200 mm.
Take appropriate constructive protection measures if there are high wind speeds.
Transverse bead from 500 mm width.

St DD

Cover for 90° bend

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
WDBRL 90 20 DD	200	1.00	1	165.100	**6231527**
WDBRL 90 30 DD	300	1.00	1	270.000	**6231535**
WDBRL 90 40 DD	400	1.00	1	548.000	**6231543**
WDBRL 90 50 DD	500	1.00	1	724.000	**6231551**



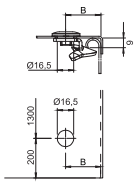


As the connector is mounted from the outside, the fitting cover is 300 mm shorter than the corresponding fitting. This must be considered when installing the track elements.
Cover for wide span 90° bend with pre-mounted turn buckles.

St FT

Turn buckle for riveting

Type	Pack Piece	Weight kg/100 pc.	Item no.
DRL H FT	20	2.187	**6065012**



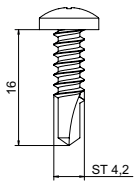


Turn buckle for additional installation or installation at a later date.
Depending on the cover version, dimension B varies as follows:
DRL / DRLU = 27 mm
DBKR = 27 mm
WDRL = 38 mm
WKLD = 58 mm
Single-sided turn buckle. Use for cover widths of 100–600 mm.

St G

Drilling screw

Type	Dimen-sion mm	Pack Piece	Weight kg/100 pc.	Item no.
BS BKS KP	4,2x16	100	0.180	**6049250**





Drilling screw to fasten components to the stand-offs of the walkable cable tray system. Corresponds to DIN 7504.

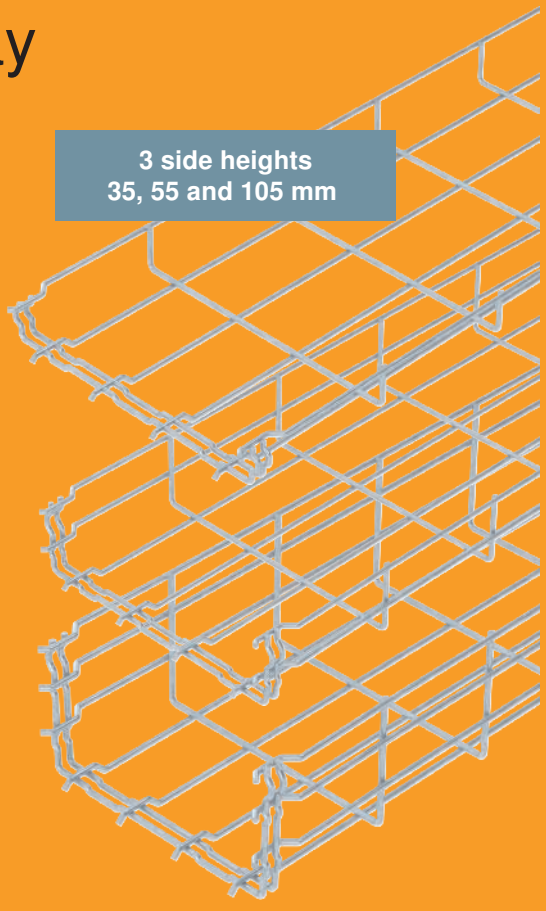
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GR-Magic® mesh cable tray

The GR-Magic® mesh cable tray system with shaped connector for screwless quick mounting guarantees the shortest possible mounting times, even for complex installation operations.

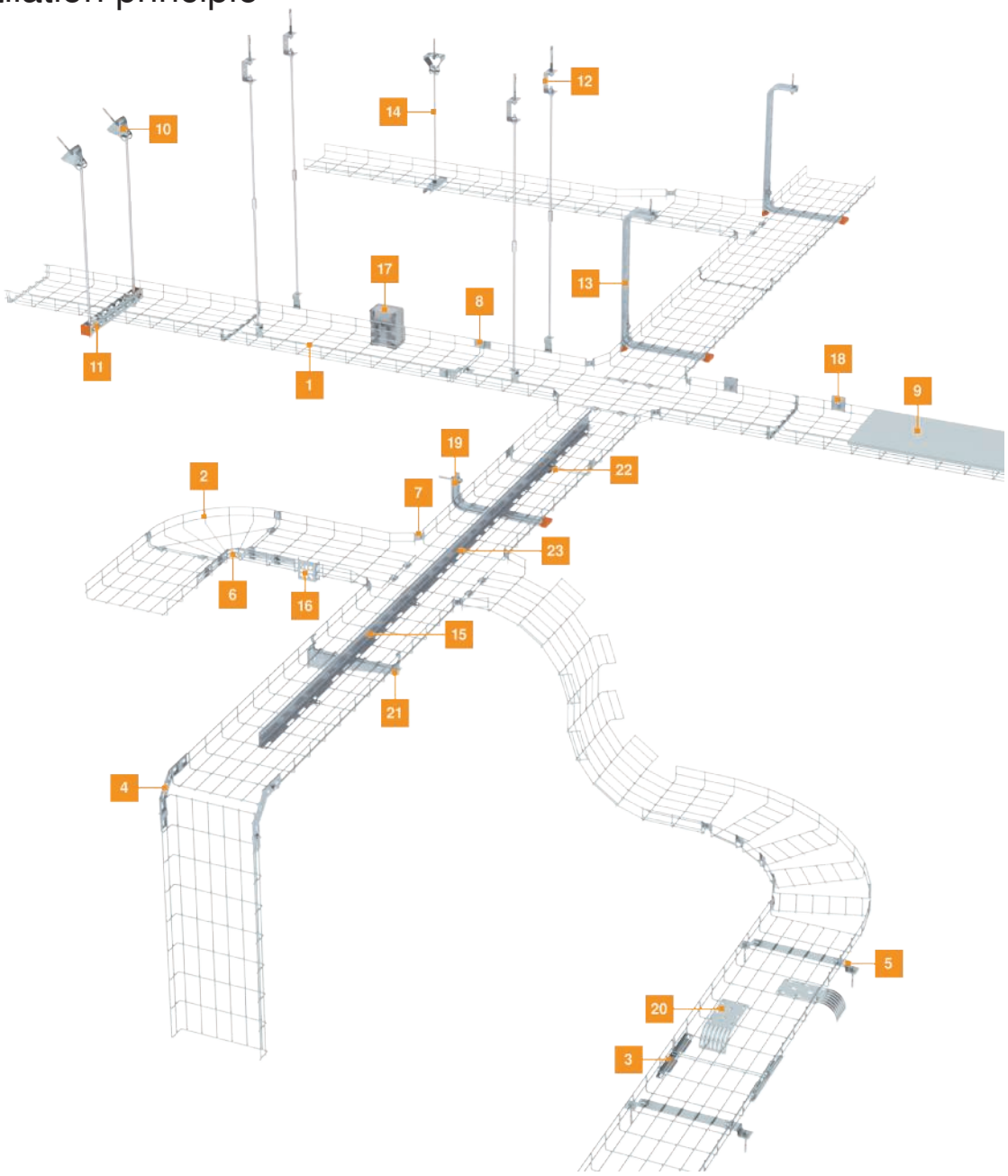
3 side heights
35, 55 and 105 mm



- Fast and secure connection through plug connection
- Locking system accessory, such as the barrier strips
- Maintenance of electrical function, tested
- Equipotential bonding without additional components
- VDE and UL approved mesh cable tray system

GR-Magic® mesh cable tray

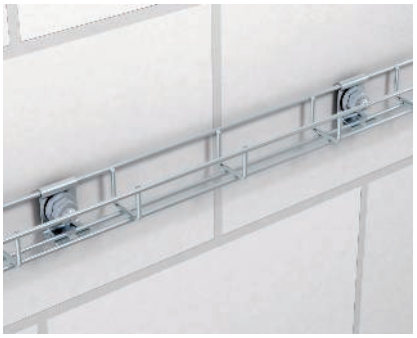
Installation principle



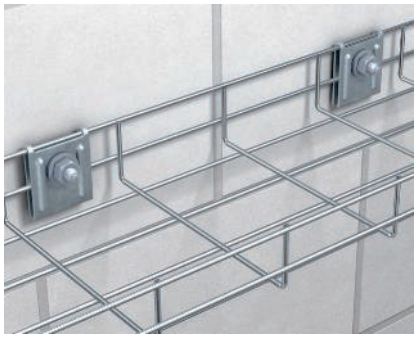
1	GR-Magic mesh cable tray	13	TP suspended support
2	90° mesh cable tray bend	14	Centre suspension, GMS
3	Mesh cable tray connector, long	15	Barrier strip
4	90° mounting bracket	16	Mounting plate
5	Stand-off bracket	17	Fastening element for junction box
6	Slotted steel strap, bent	18	Wall and ceiling bracket
7	Corner connector	19	Wall and support bracket TPSAG
8	Joint connector	20	Cable exit plate
9	Cover, unperforated	21	AWG 15 wall and support bracket
10	Ceiling clamp, variable	22	Hold-down clamp for barrier strip fastening
11	Mounting rail, MS 41	23	Barrier strip connector
12	Ceiling bracket		

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Mounting aid



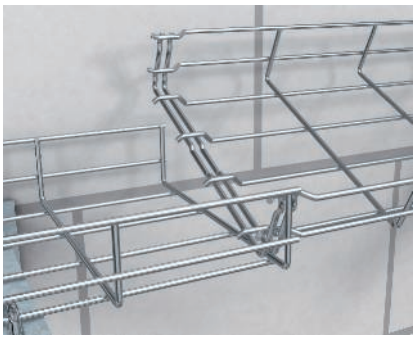
Wall mounting GRM 35 50
Wall mounting for direct wall fastening of mesh cable trays GRM 35 50.



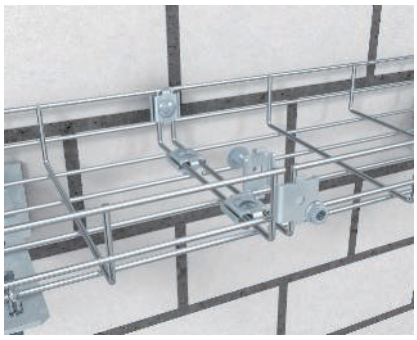
Wall mounting of mesh cable trays
Wall mounting of mesh cable trays with wall bracket, type K 12 1818. Maximum mesh cable tray width 200 mm.



Wall and floor fastener WB GR
Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on. Suitable for wire thickness of 3.9 mm.



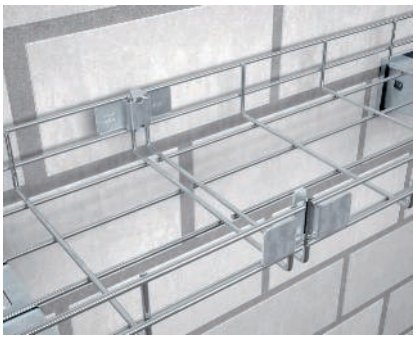
Straight connection of Magic® mesh cable tray
Creation of a screwless straight connection of the mesh cable tray, type GR-Magic®, by interconnecting two stock lengths.



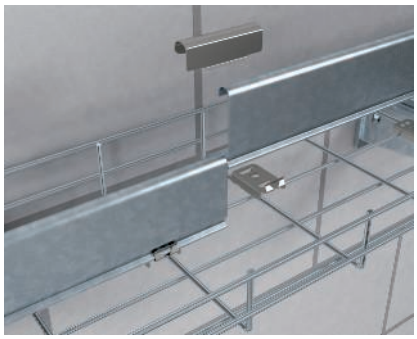
Screwed straight connection of mesh cable trays
Creation of a screwed straight connection of mesh cable trays with joint connectors, type GSV 34.



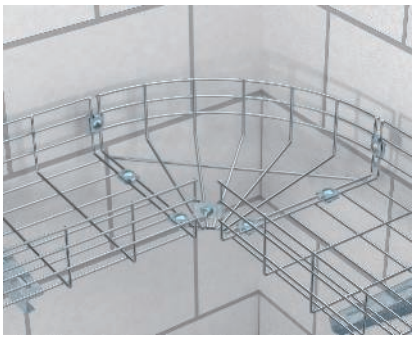
Screwless straight connection with quick connectors
Creation of a screwless straight connection of mesh cable trays using a quick connector, type GRV.



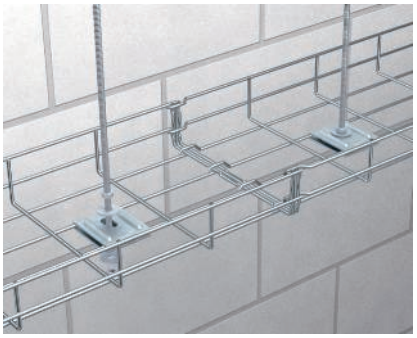
Screwless straight connection of mesh cable trays
Creation of a screwless straight connection of mesh cable trays with joint connectors, type GRS.



Screwless barrier strip fastening
Screwless fastening of a barrier strip in mesh cable trays with hold-down clamp, type KS GR. The screwless straight connection of the barrier strip is made using the barrier strip connector TSGV.



Installation of a mesh cable tray bend
Mounting of a mesh cable tray bend, type GRB 90.



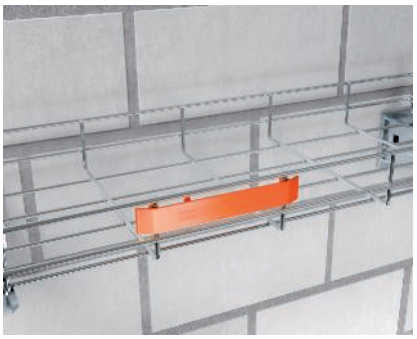
Centre suspension
Suspension of a mesh cable tray using a threaded rod, type 2078, and a wall and floor fastener, type K12 1818. Use with widths of up to 200 mm.



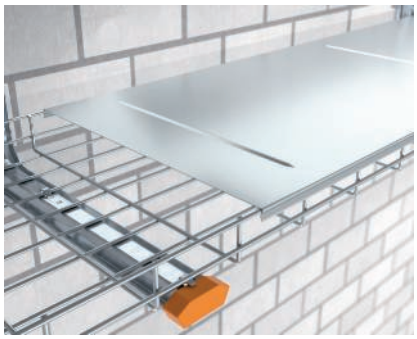
Side holder
Installation of the conduit take off bracket, type SH KAB, for accepting cable glands.



Mounting plate
Screwless quick fastening of the mounting plate, type MP UNI.



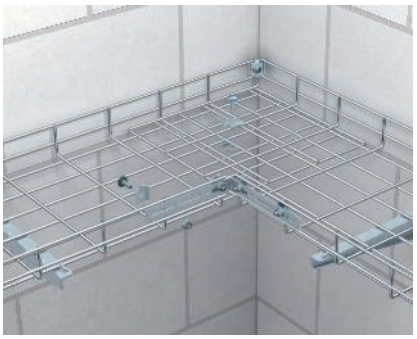
Identification plate
Mounting of the identification plate, type KS-GR, in the side rail of the mesh cable tray.



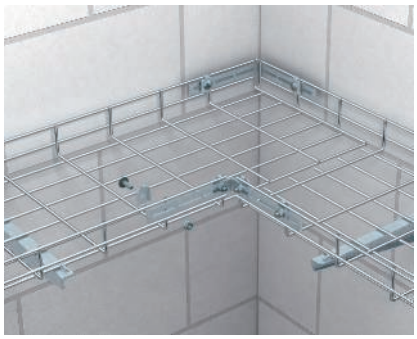
Cover mounting
Cover with snap-on function for easy locking to the mesh cable tray.



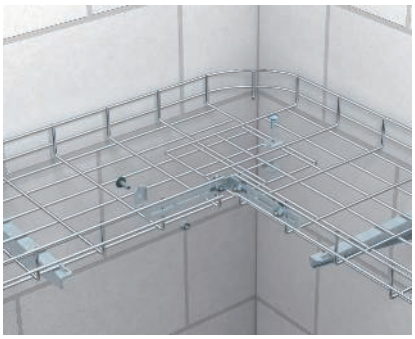
Installation of mesh angle
Fastening of the mesh angle, type GW 40/80, to steel girders using beam clamps, type KL 20 or KL 30.



Creation of a mesh cable tray bend – angular, overlapping
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed overlapping to form an angular mesh cable tray bend.



Creation of a mesh cable tray bend – angular
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed as a non-overlapping, angular mesh cable tray bend.



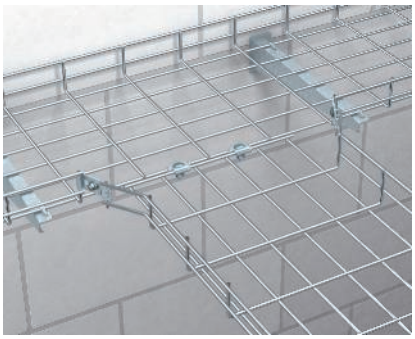
Creation of a mesh cable tray bend – round, overlapping
After the mesh cable trays have been cut to size, they can, together with joint connectors, type GSV 34, and a bent slotted steel strap, be installed overlapping to form a round mesh cable tray bend.



Creation of a mesh cable tray bend - round
Cutting out every second grid allows the creation of mesh cable tray bends with a larger radius. Fixing takes place using corner connectors, type GEV 36.



Rising and falling bends
Rising and falling vertical bends can be created by cutting into every second grid of the mesh cable tray edge and bending the mesh cable tray accordingly.

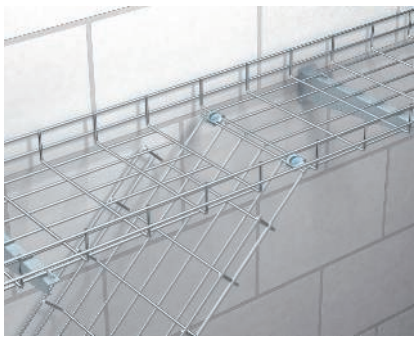


Creation of a mesh cable tray tee
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create tees.

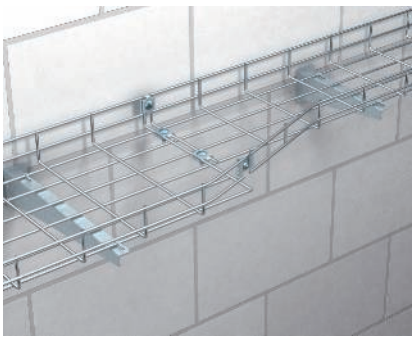
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Creation of a mesh cable tray cross-over
After cutting the side rails and bending the straps, the corner connector, type GEV 36, and the joint connector, type GSV 34, can be used to create cross-overs.



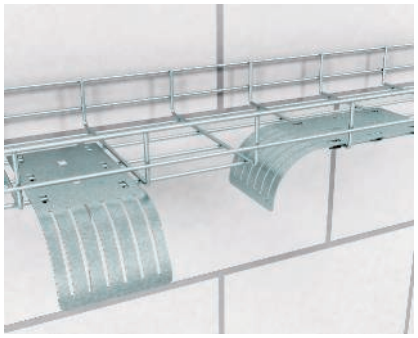
Creation of a vertical exit
After cutting the mesh cable tray base, the vertically branching, cut mesh cable tray can be fixed using the joint connector, type GSV 34.



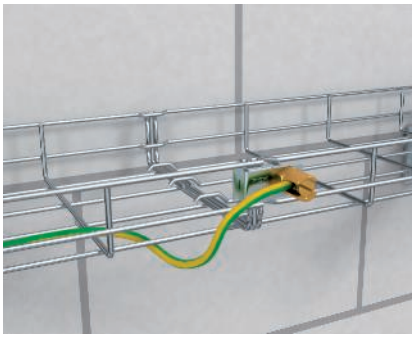
Creation of a reduction
Reductions are possible by single-sided cutting of the different mesh cable tray widths, bending the flaps in the required direction and using the corner connectors, type GEV 36, and the joint connector, type GSV 34.



Mesh cable tray with cable exit plate
Cable exit plate for screwless mounting in mesh cable trays. The cable exit plate allows maintenance of pre-specified bend radii.



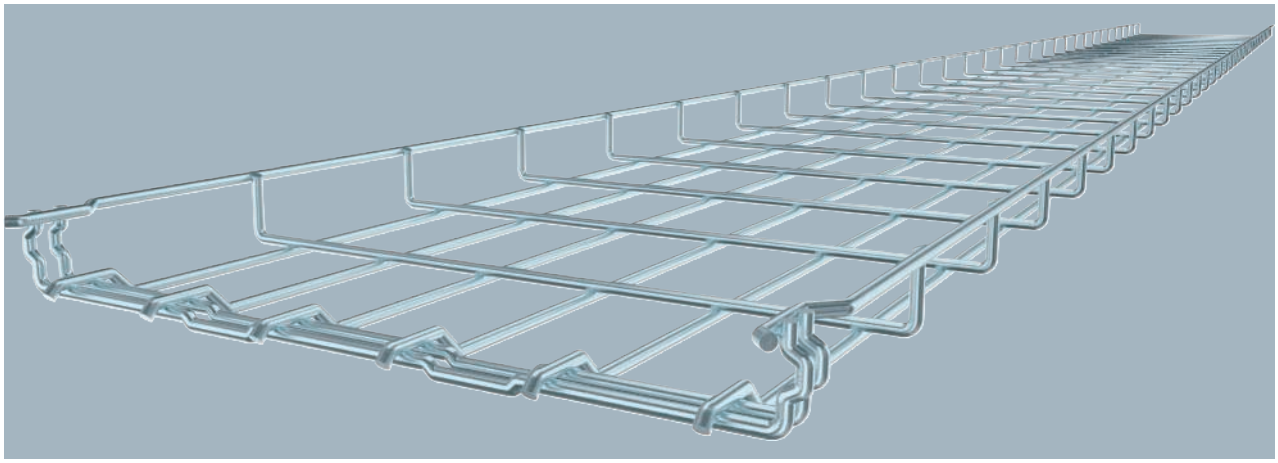
Mesh cable tray with cable exit plate
The cable exit plate can be installed in lengthwise and transverse directions.



Earthing terminal/earth connection
Earthing terminal for fastening the equipotential bonding wire to the cable support system.

St G

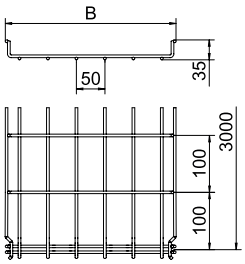
Mesh cable tray GR-Magic® 35



Mesh cable tray with shaped connector of side height 35 mm.

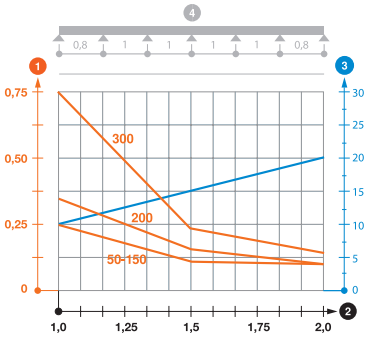
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 35 50 G	50	3.9	3	45.000	**6000060**
GRM 35 100 G	100	3.9	3	50.333	**6000062**
GRM 35 150 G	150	3.9	3	63.333	**6000063**
GRM 35 200 G	200	3.9	3	76.667	**6000064**
GRM 35 300 G	300	4.8	3	159.000	**6000066**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 35 50 G	3000	52	17.5
GRM 35 100 G	3000	100	35
GRM 35 150 G	3000	150	52.5
GRM 35 200 G	3000	200	70
GRM 35 300 G	3000	300	105

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50 G	0.25	0.11	0.1
GRM 35 100 G	0.25	0.11	0.1
GRM 35 150 G	0.25	0.11	0.1
GRM 35 200 G	0.3	0.14	0.1
GRM 35 300 G	0.75	0.22	0.15

Load diagram, GR-Magic mesh cable tray, type GRM 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

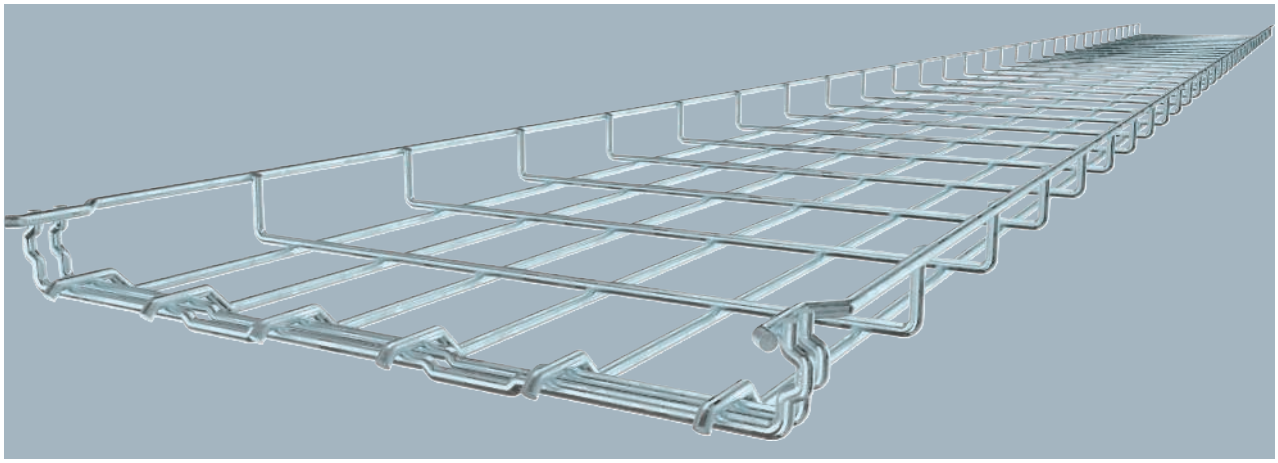
— Strut bend curve according to support width

Always indicate the item number when ordering.

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Mesh cable tray GR-Magic® 35

St FT



Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 35 50 FT	50	3.9	3	46.000	**6000069**
GRM 35 150 FT	150	3.9	3	64.333	**6000072**

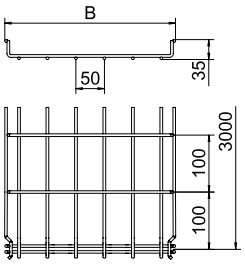
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

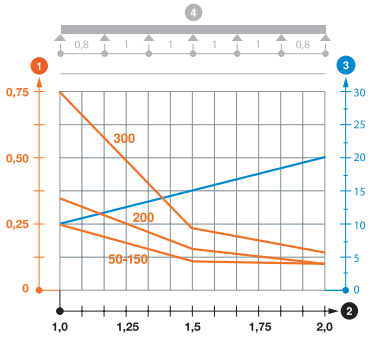
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 35 50 FT	3000	52	17.5
GRM 35 150 FT	3000	150	52.5

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50 FT	0.25	0.11	0.1
GRM 35 150 FT	0.25	0.11	0.1

Load



Load diagram, GR-Magic mesh cable tray, type GRM 35

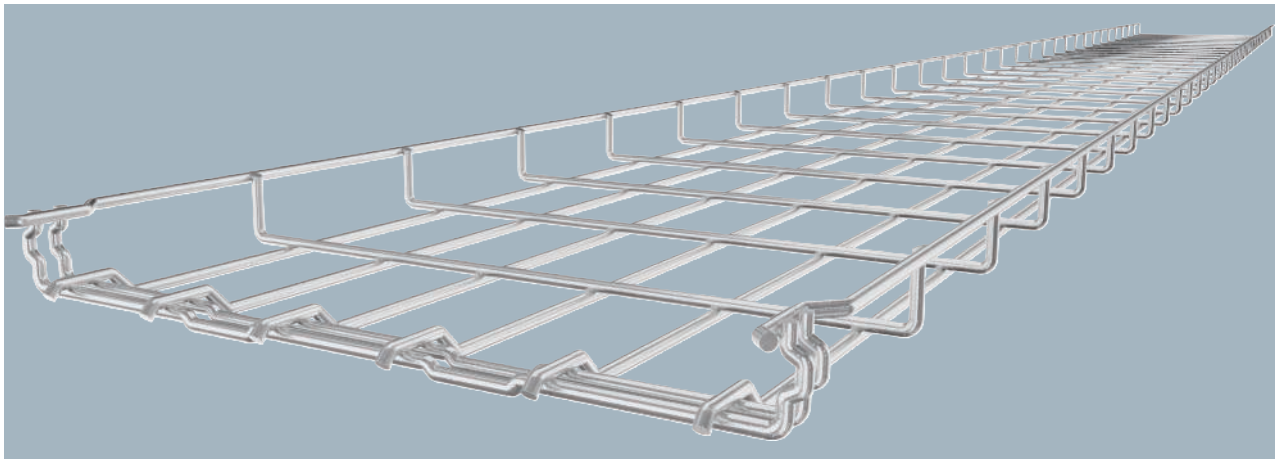
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

Mesh cable tray GR-Magic®



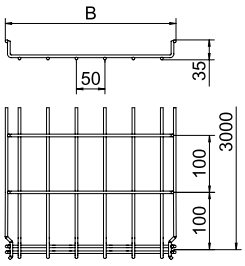
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 35/50 = 20 x 100 mm).

Mesh cable tray with shaped connector of side height 35 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

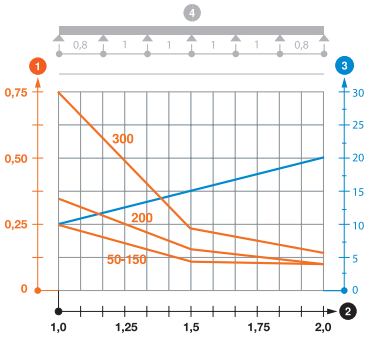
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 35 50 A2	50	3.9	3	45.000	**6000054**
GRM 35 100 A2	100	3.9	3	49.000	**6000055**
GRM 35 150 A2	150	3.9	3	63.333	**6000056**
GRM 35 200 A2	200	3.9	3	76.000	**6000057**
GRM 35 300 A2	300	4.8	3	159.000	**6000059**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 35 50 A2	3000	52	17.5
GRM 35 100 A2	3000	100	35
GRM 35 150 A2	3000	150	52.5
GRM 35 200 A2	3000	200	70
GRM 35 300 A2	3000	300	105

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
GRM 35 50 A2	0.25	0.11	0.1
GRM 35 100 A2	0.25	0.11	0.1
GRM 35 150 A2	0.25	0.11	0.1
GRM 35 200 A2	0.3	0.14	0.1
GRM 35 300 A2	0.75	0.22	0.15

Load diagram, GR-Magic mesh cable tray, type GRM 35

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

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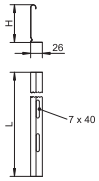
Always indicate the item number when ordering.

Mesh cable tray side height 35

Separating retainer 30

St FS DD





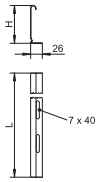
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 30 FS	30	0.75	3000	3	38.000	**6062050**
TSG 30 DD	30	0.75	3000	3	38.000	**6062314**

Separating retainer for separation of cables of different voltages or functions.

Barrier strip 30

A2 2B





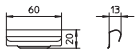
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 30 A2	30	0.75	3000	3	40.434	**6062052**

Barrier strip for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B





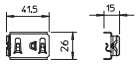
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening in GRM

VA 2B



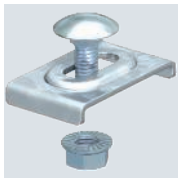


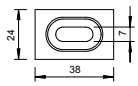
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	**6062282**

Hold-down clamp for fastening separating retainer in mesh cable trays.

GKT 38 hold-down clamp

St G





Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	**6017037**

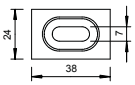
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

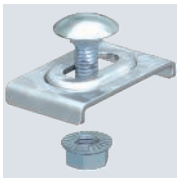
St FT

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



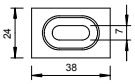


A2 2B

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	6017045

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



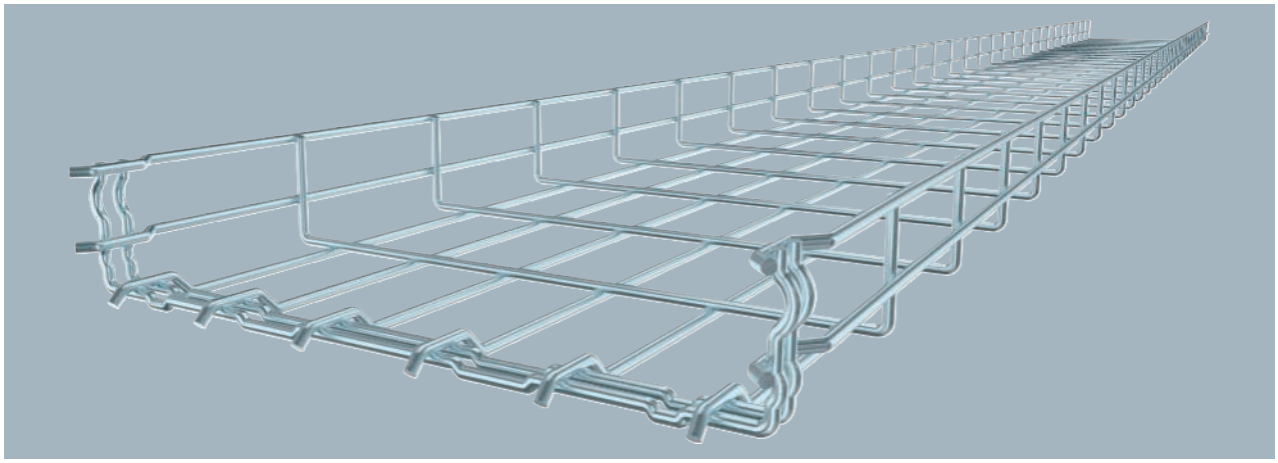


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Mesh cable tray side height 55

GR-Magic® 55 mesh cable tray

St G



Type	Width mm	Wire Ø mm	BS	Pack m	Weight kg/100 m	Item no.
GRM 55 50 G	50	3.9		3	67.000	**6001441**
GRM 55 100 G	100	3.9		3	72.000	**6001442**
GRM 55 150 G	150	3.9		3	85.667	**6001444**
GRM 55 200 G	200	3.9		3	100.667	**6001446**
GRM 55 300 G	300	4.8		3	192.333	**6001448**
GRM 55 400 G	400	4.8		3	234.667	**6001450**
GRM 55 500 G	500	4.8		3	276.667	**6001452**
GRM 55 600 G	600	4.8		3	320.000	**6001454**

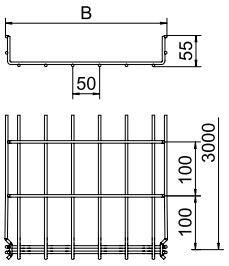
Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB. You can find detailed information regarding the UL classification in the respective certification.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm). Tested for the maintenance of electrical function according to DIN 4102 Part 12 (type: GRM 55 200 4.8 G, GRM 55 300 G, GRM 55 400 G, mounting work and parameters according to valid test certificate). Tested for installation above suspended fire protection ceilings (type: GRM 55 100 G, GRM 55 200 G, GRM 55 300 G, GRM 55 400 G, fire load 30 minutes, mounting work and parameters according to fire protection reports).

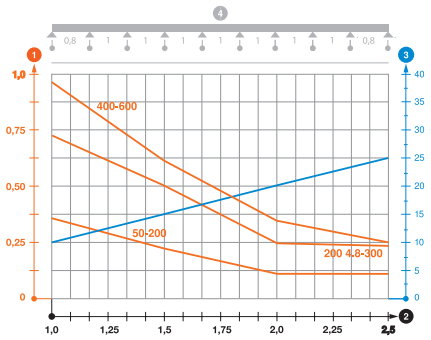
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 55 50 G	3000	52	16
GRM 55 100 G	3000	100	40
GRM 55 150 G	3000	150	63
GRM 55 200 G	3000	200	87
GRM 55 300 G	3000	300	129
GRM 55 400 G	3000	400	175
GRM 55 500 G	3000	500	220
GRM 55 600 G	3000	600	265

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 G	0.35	0.2	0.1	0.1
GRM 55 100 G	0.35	0.2	0.1	0.1
GRM 55 150 G	0.35	0.2	0.1	0.1
GRM 55 200 G	0.35	0.2	0.1	0.1
GRM 55 300 G	0.7	0.5	0.25	0.2
GRM 55 400 G	0.9	0.6	0.3	0.25
GRM 55 500 G	0.9	0.6	0.3	0.25
GRM 55 600 G	0.9	0.6	0.3	0.25

Load



Load diagram, GR-Magic mesh cable tray, type GRM 55

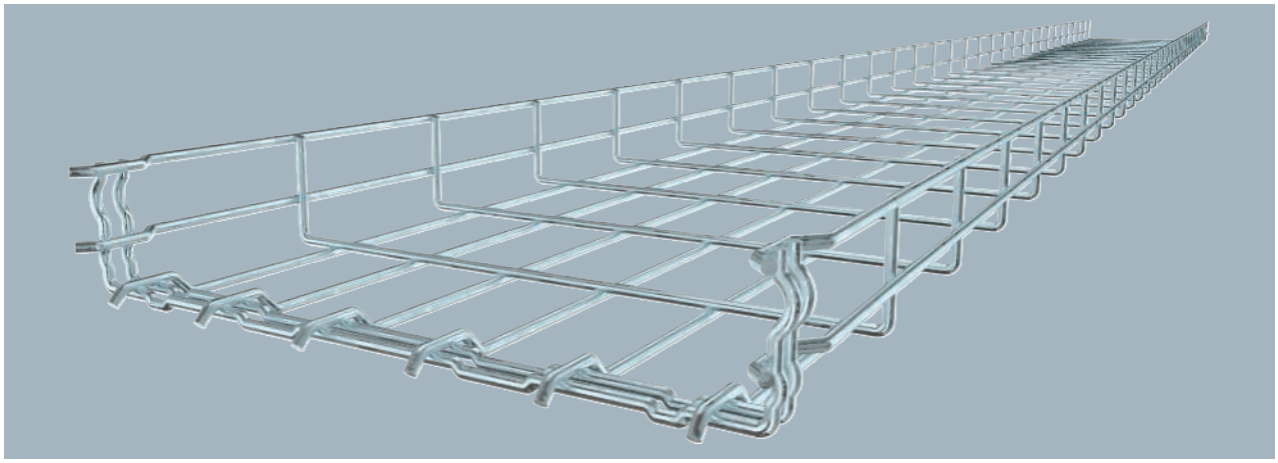
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

Mesh cable tray GR-Magic® 55



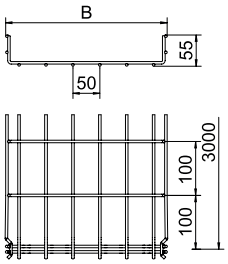
Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB. You can find detailed information regarding the UL classification in the respective certification.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

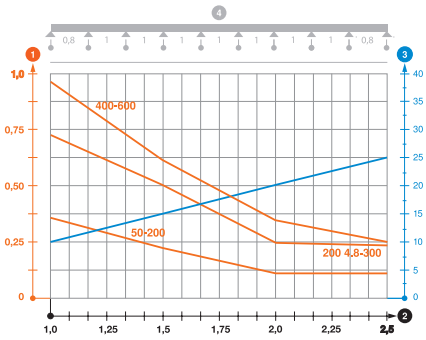
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 55 50 FT	50	3.9	3	72.333	**6001415**
GRM 55 100 FT	100	3.9	3	74.667	**6001416**
GRM 55 150 FT	150	3.9	3	90.000	**6001418**
GRM 55 200 FT	200	3.9	3	102.000	**6001420**
GRM 55 200 4.8FT	200	4.8	3	156.667	**6001421**
GRM 55 300 FT	300	4.8	3	200.667	**6001424**
GRM 55 400 FT	400	4.8	3	245.000	**6001428**
GRM 55 500 FT	500	4.8	3	288.333	**6001432**
GRM 55 600 FT	600	4.8	3	331.333	**6001436**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 55 50 FT	3000	52	16
GRM 55 100 FT	3000	100	40
GRM 55 150 FT	3000	150	63
GRM 55 200 FT	3000	200	87
GRM 55 200 4.8FT	3000	200	87
GRM 55 300 FT	3000	300	129
GRM 55 400 FT	3000	400	175
GRM 55 500 FT	3000	500	220
GRM 55 600 FT	3000	600	265

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 FT	0.35	0.2	0.1	0.1
GRM 55 100 FT	0.35	0.2	0.1	0.1
GRM 55 150 FT	0.35	0.2	0.1	0.1
GRM 55 200 FT	0.35	0.2	0.1	0.1
GRM 55 200 4.8FT	0.7	0.5	0.25	0.2
GRM 55 300 FT	0.7	0.5	0.25	0.2
GRM 55 400 FT	0.9	0.6	0.3	0.25
GRM 55 500 FT	0.9	0.6	0.3	0.25
GRM 55 600 FT	0.9	0.6	0.3	0.25

Load diagram, GR-Magic mesh cable tray, type GRM 55

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

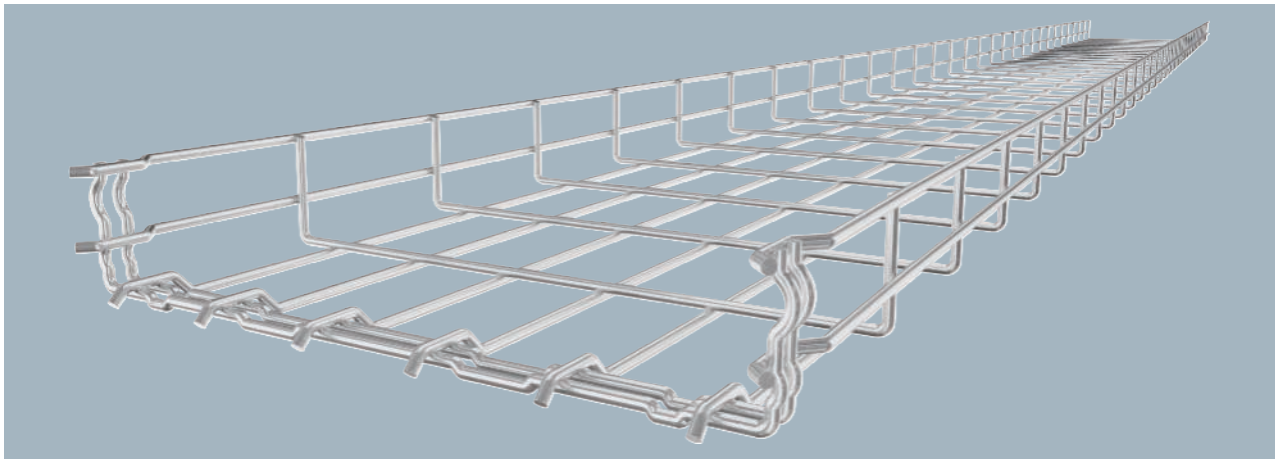
— Strut bend curve according to support width

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Mesh cable tray side height 55

Mesh cable tray GR-Magic® 55

A2 2B



Type	Width mm	Wire Ø mm	BS	Pack m	Weight kg/100 m	Item no.
GRM 55 50 A2	50	3.9		3	67.000	**6001070**
GRM 55 100 A2	100	3.9		3	72.000	**6001072**
GRM 55 150 A2	150	3.9		3	85.667	**6001074**
GRM 55 200 A2	200	3.9		3	99.000	**6001076**
GRM 55 300 A2	300	4.8		3	192.333	**6001078**
GRM 55 400 A2	400	4.8		3	234.667	**6001080**
GRM 55 500 A2	500	4.8		3	276.667	**6001082**
GRM 55 600 A2	600	4.8		3	320.000	**6001085**

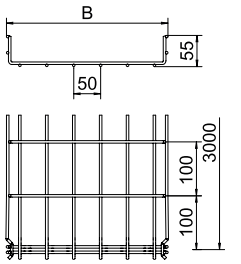
Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm (exception: GRM 55/50 = 20 x 100 mm).

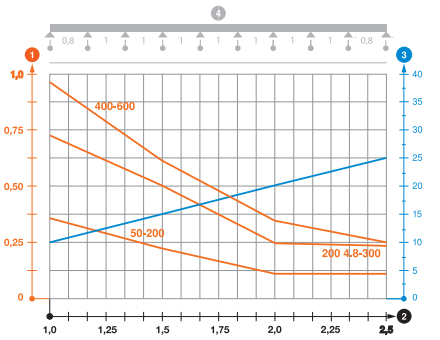
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 55 50 A2	3000	52	16
GRM 55 100 A2	3000	100	40
GRM 55 150 A2	3000	150	63
GRM 55 200 A2	3000	200	87
GRM 55 300 A2	3000	300	129
GRM 55 400 A2	3000	400	175
GRM 55 500 A2	3000	500	220
GRM 55 600 A2	3000	600	265

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m
GRM 55 50 A2	0.35	0.2	0.1	0.1
GRM 55 100 A2	0.35	0.2	0.1	0.1
GRM 55 150 A2	0.35	0.2	0.1	0.1
GRM 55 200 A2	0.35	0.2	0.1	0.1
GRM 55 300 A2	0.7	0.5	0.25	0.2
GRM 55 400 A2	0.9	0.6	0.3	0.25
GRM 55 500 A2	0.9	0.6	0.3	0.25
GRM 55 600 A2	0.9	0.6	0.3	0.25

Load



Load diagram, mesh cable tray GRM 55 VA

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

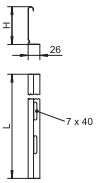
— Strut bend curve according to support width

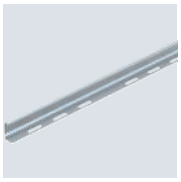
St FS DD

Separating retainer 45

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 FS	45	0.75	3000	3	46.700	6062033
TSG 45 DD	45	0.75	3000	3	46.812	6062321

Separating retainer for separation of cables of different voltages or functions.



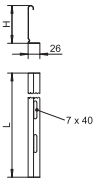


A2 2B

Separating retainer 45

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	49.850	6062025

Separating retainer for separation of cables of different voltages or functions.



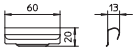


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



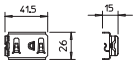


VA 2B

Hold-down clamp for separating retainer fastening in GRM

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	6062282

Hold-down clamp for fastening separating retainer in mesh cable trays.



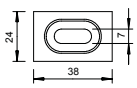


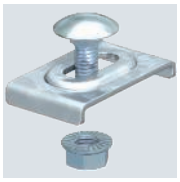
St G

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



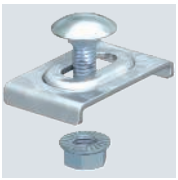


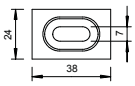
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Mesh cable tray side height 55

GKT 38 hold-down clamp

St FT





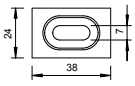
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	**6017061**

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

GKT 38 hold-down clamp

A2 2B



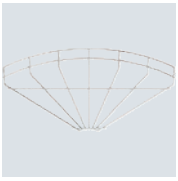


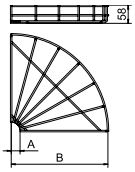
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	**6017045**

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

90° mesh cable tray bend, 55

St G



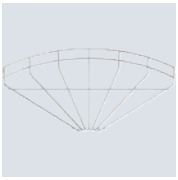


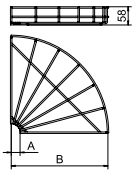
Type	Width mm	Wire Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GRB 90 510 G	100	3.9	1	6.997	**6001920**
GRB 90 515 G	150	3.9	1	14.400	**6001998**
GRB 90 520 G	200	3.9	1	18.800	**6001939**
GRB 90 530 G	300	4.8	1	50.500	**6001947**
GRB 90 540 G	400	4.8	1	66.100	**6001955**
GRB 90 550 G	500	4.8	1	95.500	**6001963**
GRB 90 560 G	600	4.8	1	114.100	**6001971**

90° bend, horizontal, for all mesh cable trays of 55 mm side height.

90° mesh cable tray bend, 55

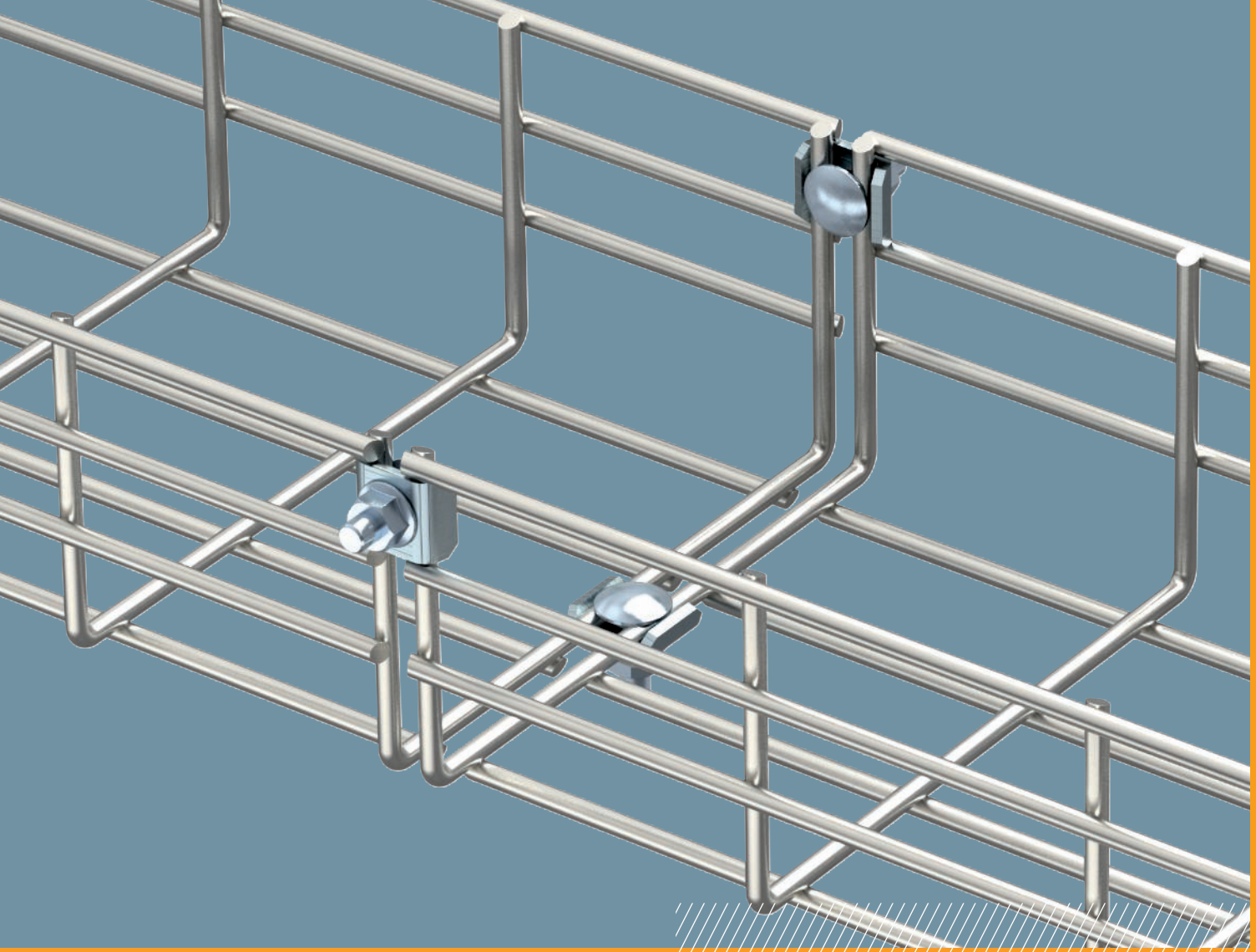
St FT





Type	Width mm	Wire Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GRB 90 510 FT	100	3.9	1	7.400	**6002218**
GRB 90 520 FT	200	3.9	1	19.800	**6002226**
GRB 90 530 FT	300	4.8	1	52.600	**6002234**

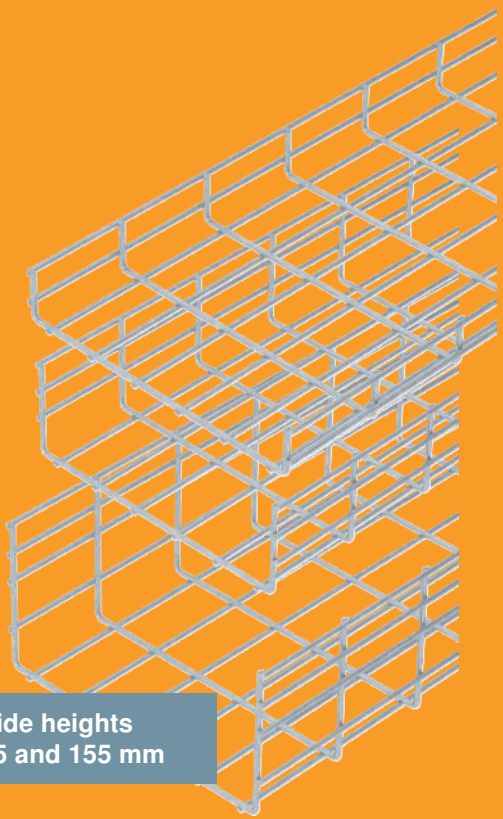
90° bend, horizontal, for all mesh cable trays of 55 mm side height.



Heavy-duty SGR mesh cable tray made of 6 mm wire

Today, due to the wide range of applications, the requirements for mesh cable trays differ a great deal. Besides simple mounting, a high load capacity, dirt-repelling qualities, good ventilation behaviour and high-quality surface refinement are particularly in demand.

The new heavy-duty mesh cable tray of type SGR, made of 6 mm-thick wire in a U profile, combines many advantages all at the same time. The strong wire design means that the SGR, with its low intrinsic weight, can withstand load capacities of up to 110% more than the comparable mesh cable trays of competitors and can thus also be used for larger support spacings of up to 4.0 m.



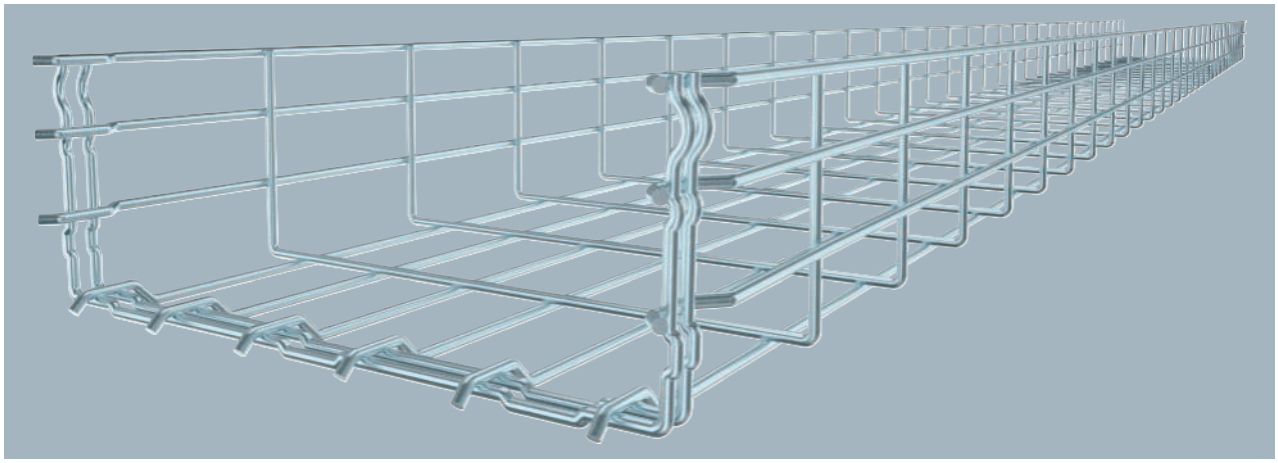
3 side heights
55, 105 and 155 mm

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Mesh cable tray side height 105

Mesh cable tray GR-Magic® 105

St G

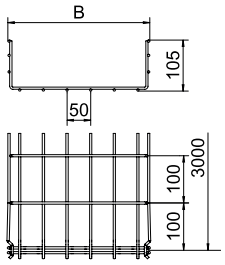


Type	Width mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
GRM 105 100 G	100	3.9		3	99.333	**6002402**
GRM 105 150 G	150	3.9		3	111.667	**6002404**
GRM 105 200 G	200	4.8		3	192.333	**6002406**
GRM 105 300 G	300	4.8		3	234.667	**6002408**
GRM 105 400 G	400	4.8		3	278.000	**6002410**
GRM 105 500 G	500	4.8		3	319.000	**6002415**
GRM 105 600 G	600	4.8		3	363.333	**6002417**

Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

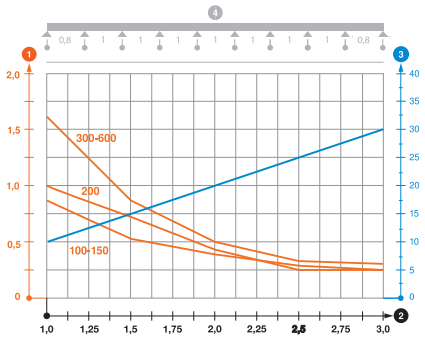
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 105 100 G	3000	100	82
GRM 105 150 G	3000	150	130
GRM 105 200 G	3000	200	175
GRM 105 300 G	3000	300	268
GRM 105 400 G	3000	400	363
GRM 105 500 G	3000	500	459
GRM 105 600 G	3000	600	554

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 G	0.8	0.55	0.37	0.25
GRM 105 150 G	0.8	0.55	0.37	0.25
GRM 105 200 G	1	0.7	0.4	0.25
GRM 105 300 G	1.6	0.8	0.5	0.3
GRM 105 400 G	1.6	0.8	0.5	0.3
GRM 105 500 G	1.6	0.8	0.5	0.3
GRM 105 600 G	1.6	0.8	0.5	0.3

Load



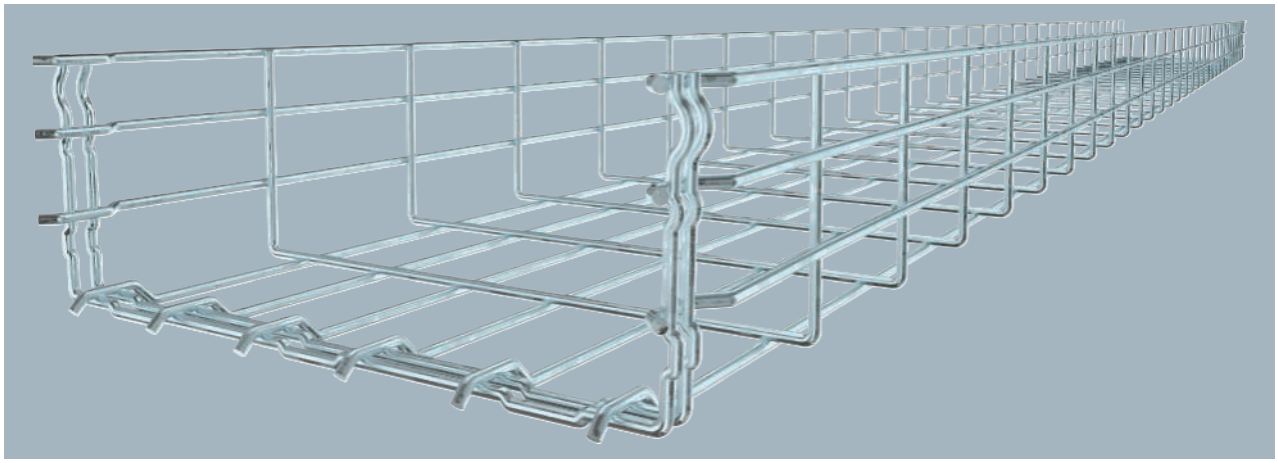
Load diagram, mesh cable tray, type GRM 105

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

St FT

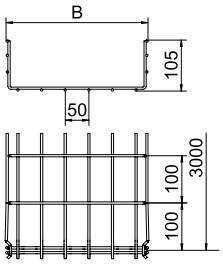
Mesh cable tray GR-Magic® 105



Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

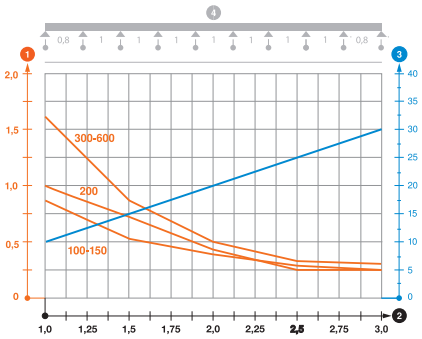
Type	Width mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GRM 105 100 FT	100	3.9	3	105.333	**6002431**
GRM 105 150 FT	150	3.9	3	119.000	**6002433**
GRM 105 200 FT	200	4.8	3	202.333	**6002435**
GRM 105 300 FT	300	4.8	3	244.000	**6002437**
GRM 105 400 FT	400	4.8	3	288.333	**6002439**
GRM 105 500 FT	500	4.8	3	335.000	**6002443**
GRM 105 600 FT	600	4.8	3	375.000	**6002445**

Dimensions



Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 105 100 FT	3000	100	82
GRM 105 150 FT	3000	150	130
GRM 105 200 FT	3000	200	175
GRM 105 300 FT	3000	300	268
GRM 105 400 FT	3000	400	363
GRM 105 500 FT	3000	500	459
GRM 105 600 FT	3000	600	554

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 FT	0.8	0.55	0.37	0.25
GRM 105 150 FT	0.8	0.55	0.37	0.25
GRM 105 200 FT	1	0.7	0.4	0.25
GRM 105 300 FT	1.6	0.8	0.5	0.3
GRM 105 400 FT	1.6	0.8	0.5	0.3
GRM 105 500 FT	1.6	0.8	0.5	0.3
GRM 105 600 FT	1.6	0.8	0.5	0.3

Load diagram, mesh cable tray, type GRM 105

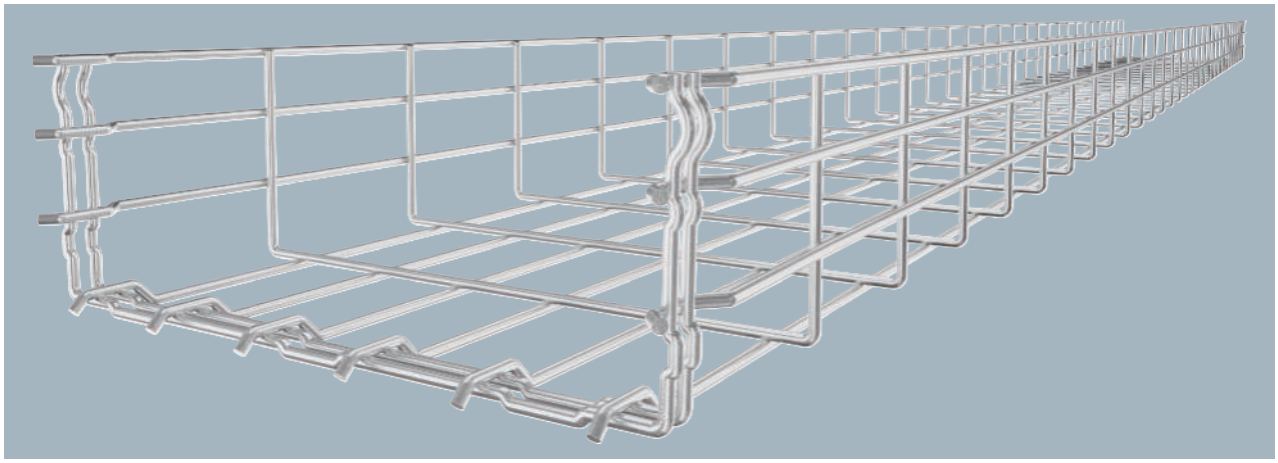
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

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Mesh cable tray GR-Magic® 105

A2 2B

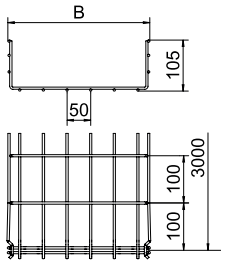


Type	Width mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
GRM 105 100 A2	100	3.9		3	99.333	**6002451**
GRM 105 150 A2	150	3.9		3	111.667	**6002455**
GRM 105 200 A2	200	4.8		3	200.667	**6002457**
GRM 105 300 A2	300	4.8		3	234.667	**6002460**
GRM 105 400 A2	400	4.8		3	277.000	**6002463**
GRM 105 500 A2	500	4.8		3	319.000	**6002466**
GRM 105 600 A2	600	4.8		3	363.333	**6002469**

Mesh cable tray with shaped connector of side height 105 mm.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.
No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50 x 100 mm.

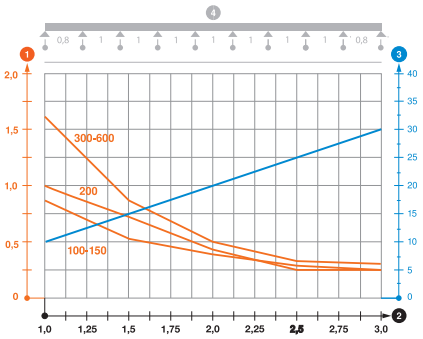
Type	Length mm	Dim. B mm	Usable cross-section cm²
GRM 105 100 A2	3000	100	82
GRM 105 150 A2	3000	150	130
GRM 105 200 A2	3000	200	175
GRM 105 300 A2	3000	300	268
GRM 105 400 A2	3000	400	363
GRM 105 500 A2	3000	500	459
GRM 105 600 A2	3000	600	554

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	3.0 m kN/m
GRM 105 100 A2	0.8	0.55	0.37	0.25
GRM 105 150 A2	0.8	0.55	0.37	0.25
GRM 105 200 A2	0.8	0.55	0.37	0.25
GRM 105 300 A2	1.1	0.75	0.53	0.3
GRM 105 400 A2	1.1	0.75	0.53	0.3
GRM 105 500 A2	1.25	0.85	0.6	0.3
GRM 105 600 A2	1.25	0.85	0.6	0.3

Load



Load diagram, mesh cable tray, type GRM 105

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

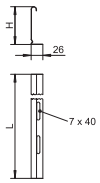
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

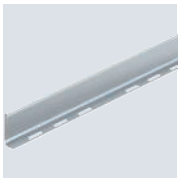
St FS DD

Separating retainer 85

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	6062114
TSG 85 DD	85	0.75	3000	3	70.300	6062331

Separating retainer for separation of cables of different voltages or functions.



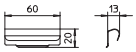


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



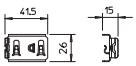


VA 2B

Hold-down clamp for separating retainer fastening in GRM

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	6062282

Hold-down clamp for fastening separating retainer in mesh cable trays.



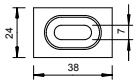


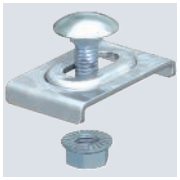
St G

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



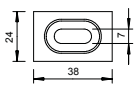


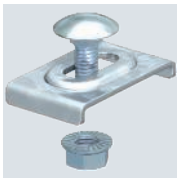
St FT

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.





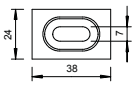
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Always indicate the item number when ordering.

GKT 38 hold-down clamp

A2 2B





Type		Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2		20	2.107	**6017045**

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

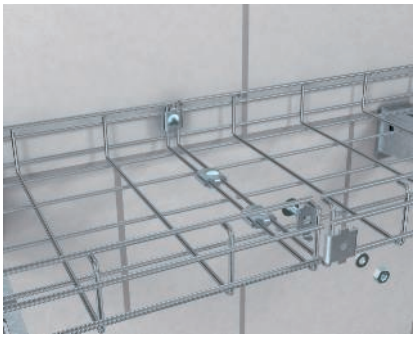


C mesh cable tray

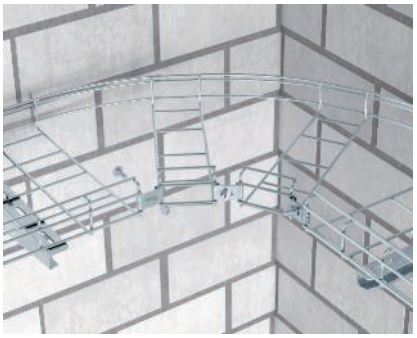
The C mesh cable tray system from OBO Bettermann fulfils the highest requirements for load capacities and versatility. The C shape allows support widths of up to three metres. This system, with its 50 mm side height, together with the optimised accessories such as hold-down clamps, Quick connectors, barrier strips, suspension profiles, mounting brackets, etc. is an ideal addition to the overall mesh cable tray system. It is used both in industry and in all other areas of professional electrical installations.

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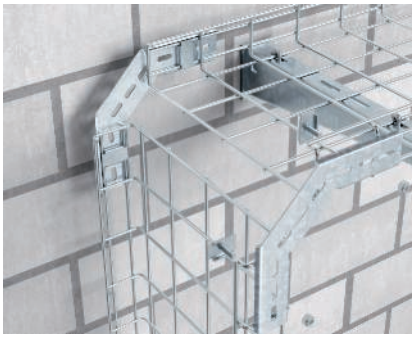
Mounting aid



Straight connection of C mesh cable tray
Creation of a straight connection on C mesh cable trays with the joint connector, type GSV 34.



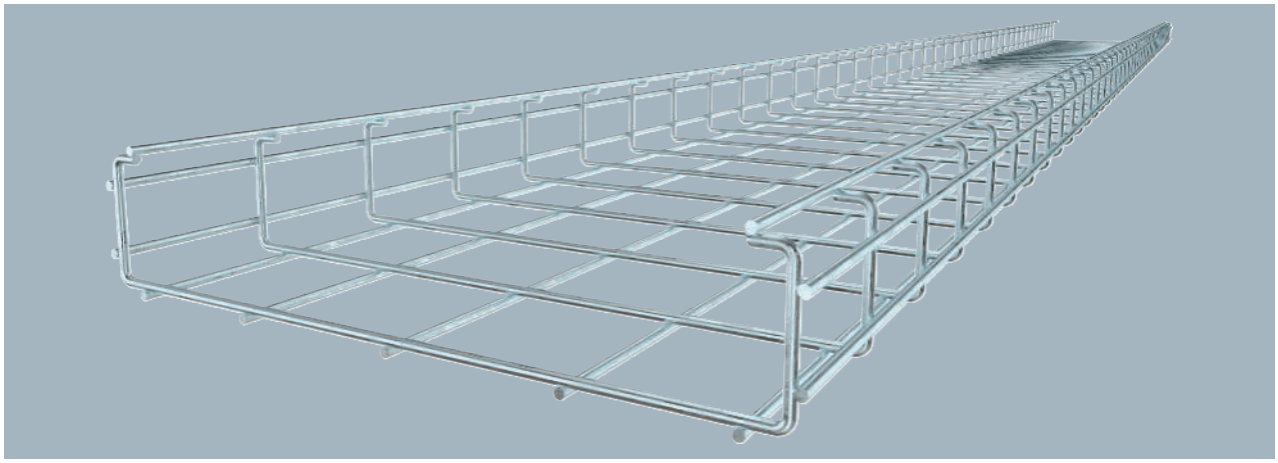
Horizontal bends
Implementation of a horizontal bend for C mesh cable trays with corner connector, type GEV 36.



Vertical bend application
Vertical bend mounting with 90° installation profile.

St FT

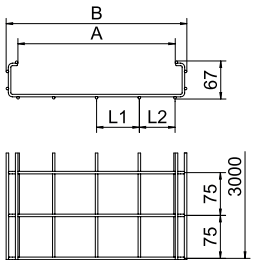
C mesh cable tray CGR 50



C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.
Magnetic shield insulation 15 dB.

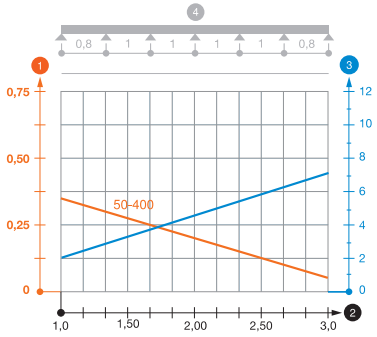
Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
CGR 50 50 FT	50	4.5	3	128.667	**6017428**
CGR 50 100 FT	50	4.5	3	139.100	**6017436**
CGR 50 200 FT	50	4.5	3	177.134	**6017444**
CGR 50 300 FT	50	4.5	3	204.334	**6017452**
CGR 50 400 FT	50	4.5	3	232.334	**6017460**

Dimensions



Type	Length mm	Dim. A mm	Dim. B mm	Usable cross-section cm²
CGR 50 50 FT	3000	26	67	13
CGR 50 100 FT	3000	76	117	34
CGR 50 200 FT	3000	176	217	75
CGR 50 300 FT	3000	276	317	116
CGR 50 400 FT	3000	376	417	157

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 FT	0.95	0.6	0.35
CGR 50 100 FT	0.95	0.6	0.35
CGR 50 200 FT	1.1	0.7	0.4
CGR 50 300 FT	1.1	0.7	0.4
CGR 50 400 FT	1.1	0.7	0.4

Load diagram, C mesh cable tray, type CGR 50

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

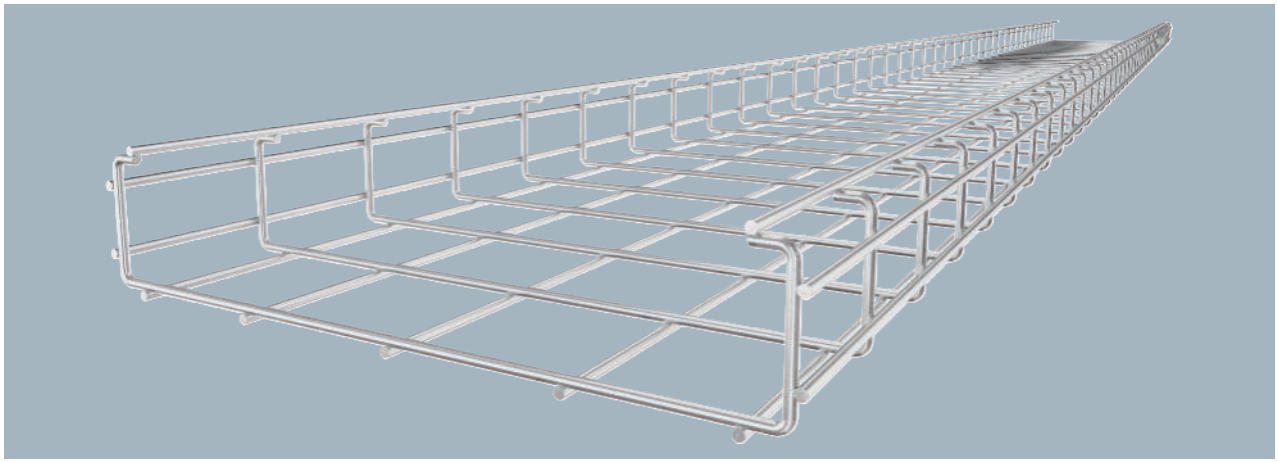
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

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C mesh cable tray CGR 50

A2 2B



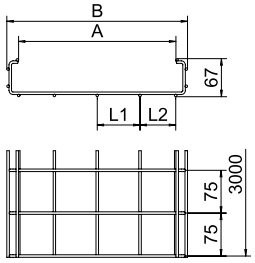
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
CGR 50 50 A2	50	4.5		3	124.667	**6016200**

C-shaped mesh cable tray made of spot-welded steel wire of side height 50 mm.

Magnetic shield insulation 15 dB.

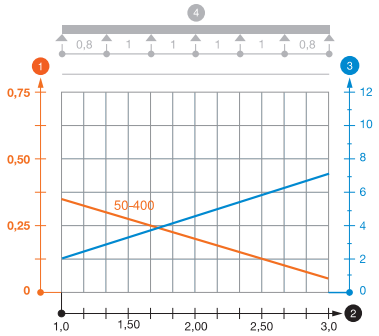
Type	Length mm	Dim. A mm	Dim. B mm	Usable cross-section cm²
CGR 50 50 A2	3000	26	67	13

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
CGR 50 50 A2	0.95	0.6	0.35

Load

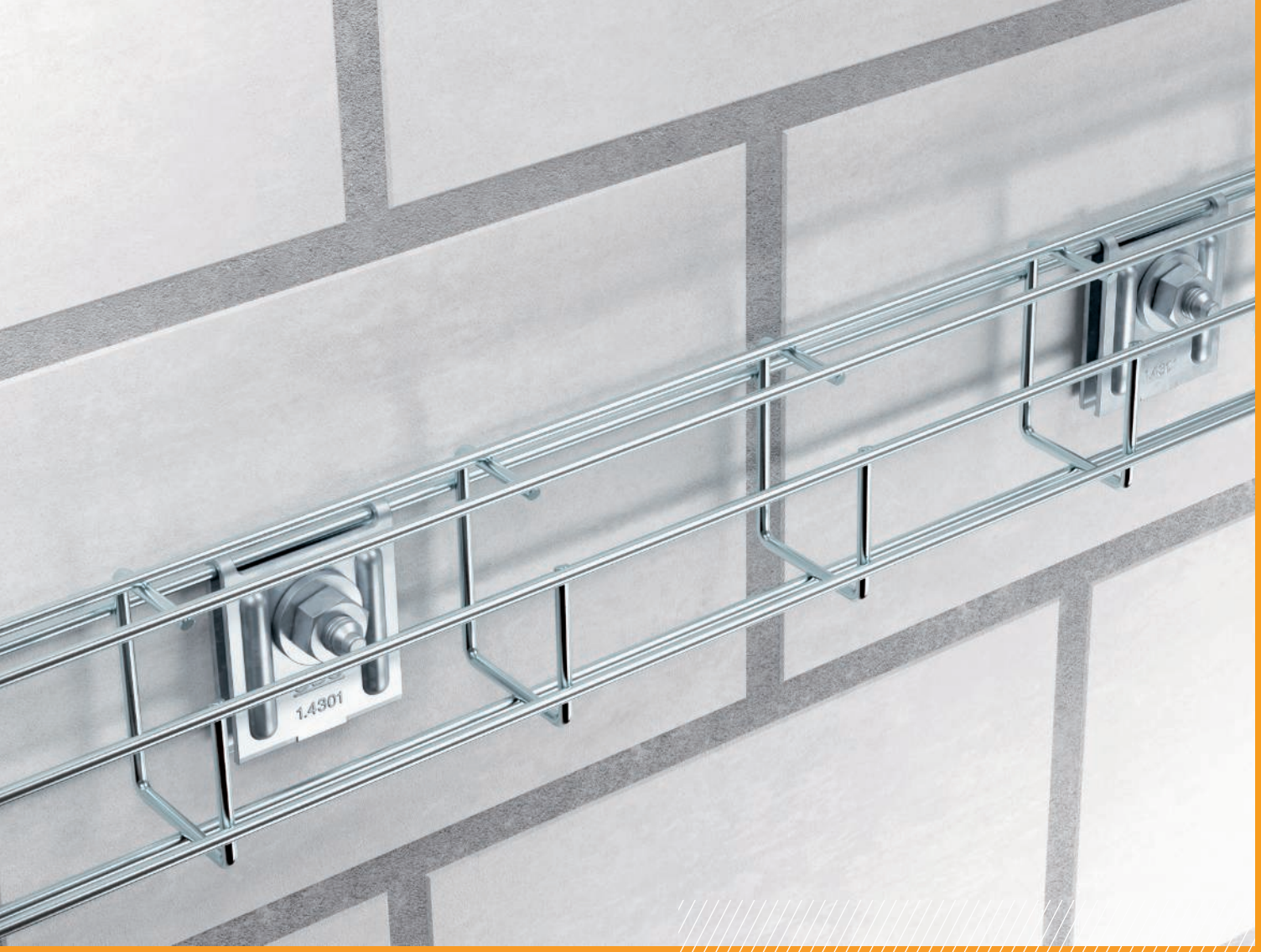


Load diagram, C mesh cable tray CGR 50 VA

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

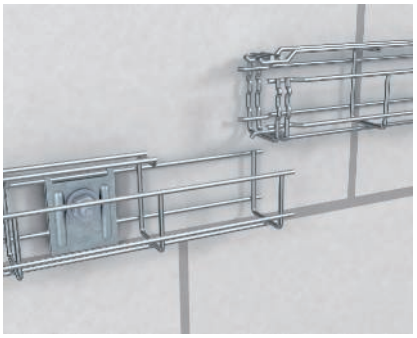


Magic G mesh cable tray

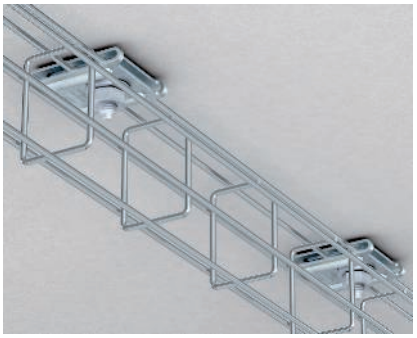
The Magic G mesh cable tray is the ideal extension of the Magic solutions for the OBO Bettermann mesh cable tray systems. The quick Magic connection means that a screwless and easy-to-mount variant is now offered for the G mesh cable tray system as well. Even in false ceiling mounting, it is an ideal alternative through direct wall or ceiling mounting. The Magic G mesh cable tray is available in four sizes and three surfaces, thus offering ideal solutions for all kinds of tasks.

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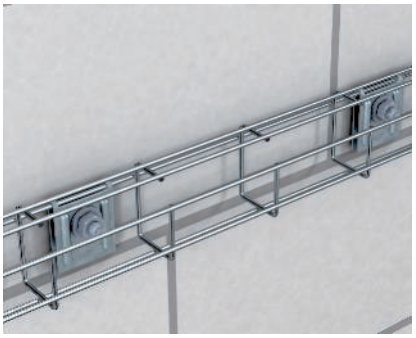
Mounting aid



Straight connection of Magic G mesh cable tray
Creation of a screwless straight connection of the G mesh cable tray, type G GRM, by interconnecting two stock lengths.



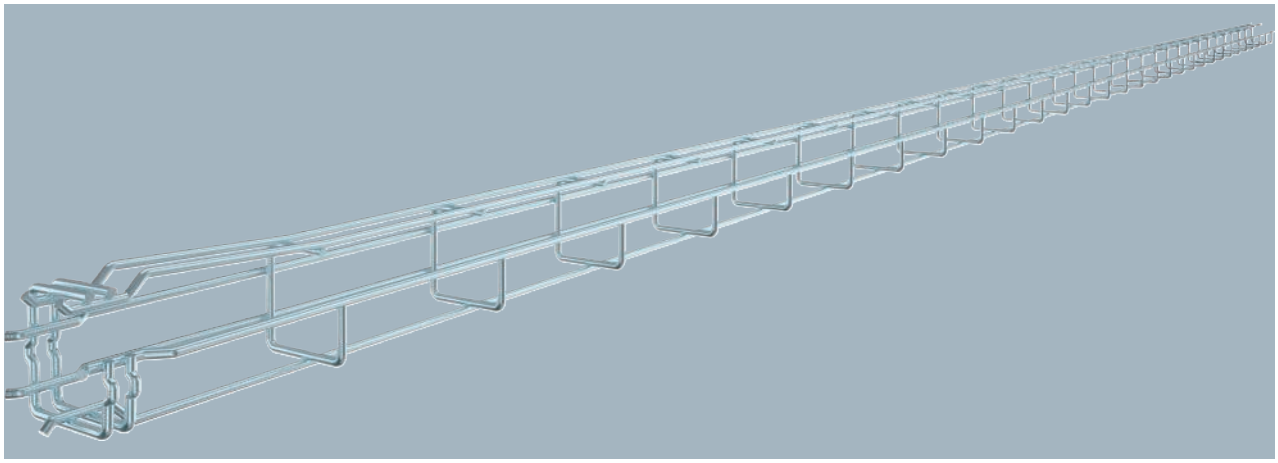
Direct ceiling mounting
Direct ceiling mounting of the Magic G mesh cable tray using the hold-down clamp, type K 12 1818.



Wall mounting of G mesh cable trays
Wall mounting of G mesh cable trays with wall bracket, type K 12 1818.

St G

G mesh cable tray Magic® 50

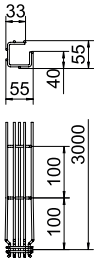


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 G	50	3.9		3	67.067	**6005535**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 G	3000	55	55	33	38

Load

G-GRM 50/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

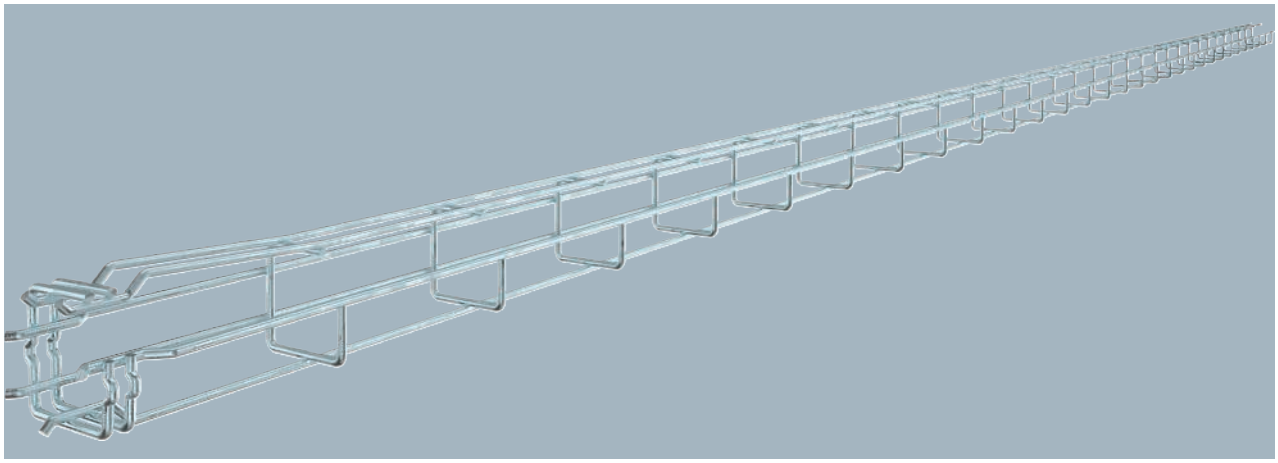
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Always indicate the item number when ordering.

G mesh cable trays, side height 50

G mesh cable tray Magic® 50

St FT



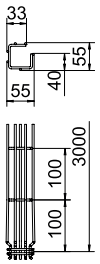
Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 FT	50	3.9	3	68.567	**6005520**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 FT	3000	55	55	33	38

Dimensions

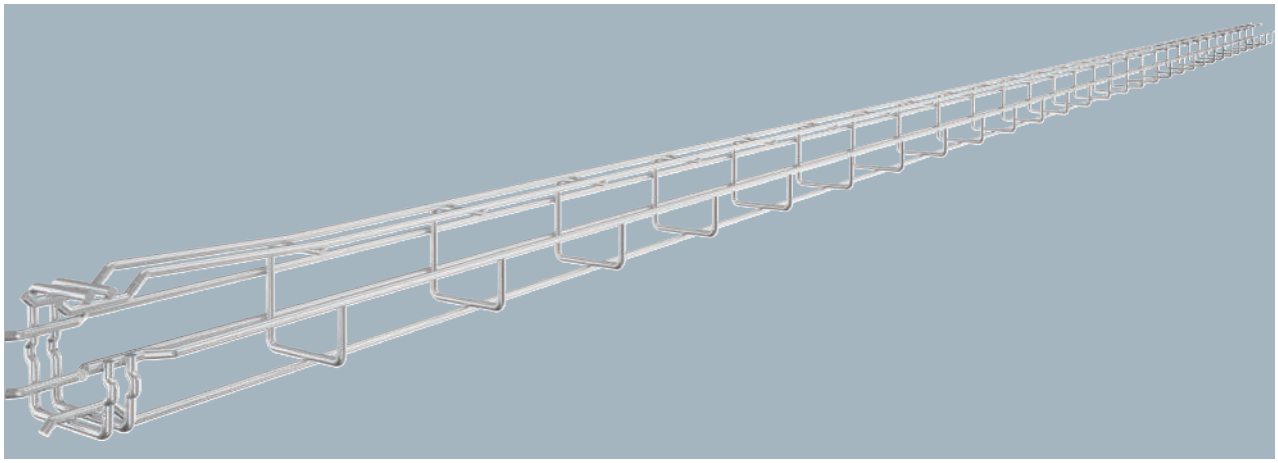


Load

G-GRM 50/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

A2 2B

G mesh cable tray Magic® 50

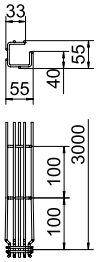


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 50 50 A2	50	3.9	3	66.567	**6005550**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 50 50 A2	3000	55	55	33	38

Load

G-GRM 50/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.2	0.15	0.1	0.05
Ceiling fastening K12 1818	0.25	0.2	0.10	0.05

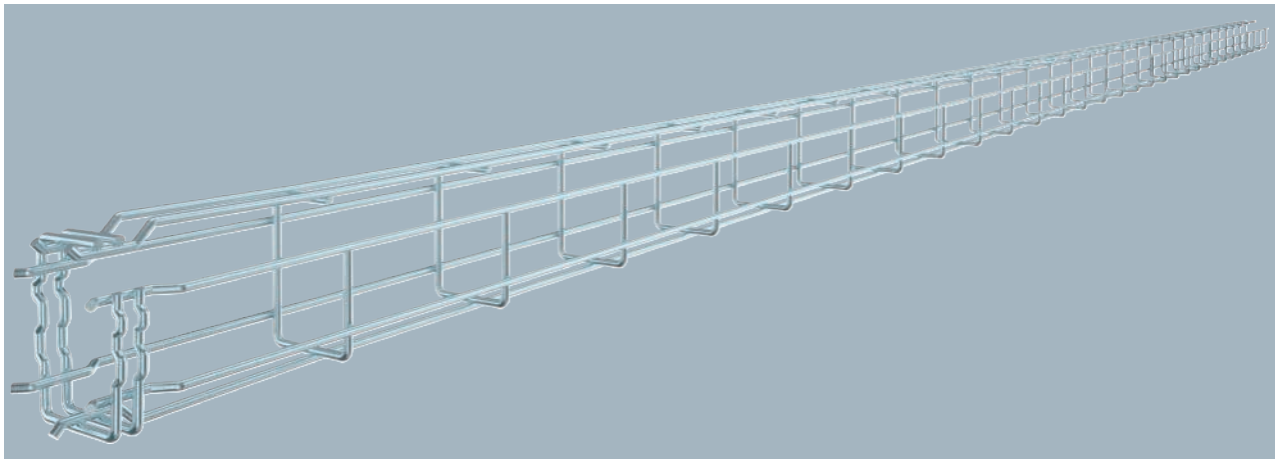
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Always indicate the item number when ordering.

G mesh cable trays, side height 75

G mesh cable tray Magic® 75

St G



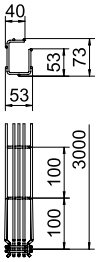
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 G	75	3.9		3	79.867	**6005538**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 G	3000	53	73	38	53

Dimensions

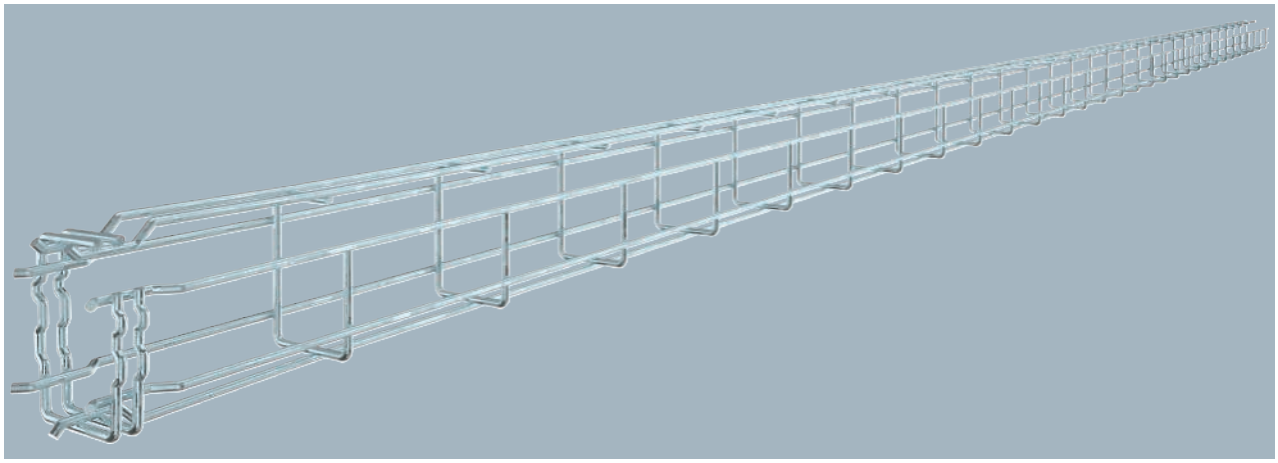


Load

G-GRM 75/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

St FT

G mesh cable tray Magic® 75

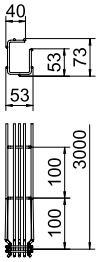


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 FT	75	3.9		3	83.700	**6005523**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 FT	3000	53	73	38	53

Load

G-GRM 75/50				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

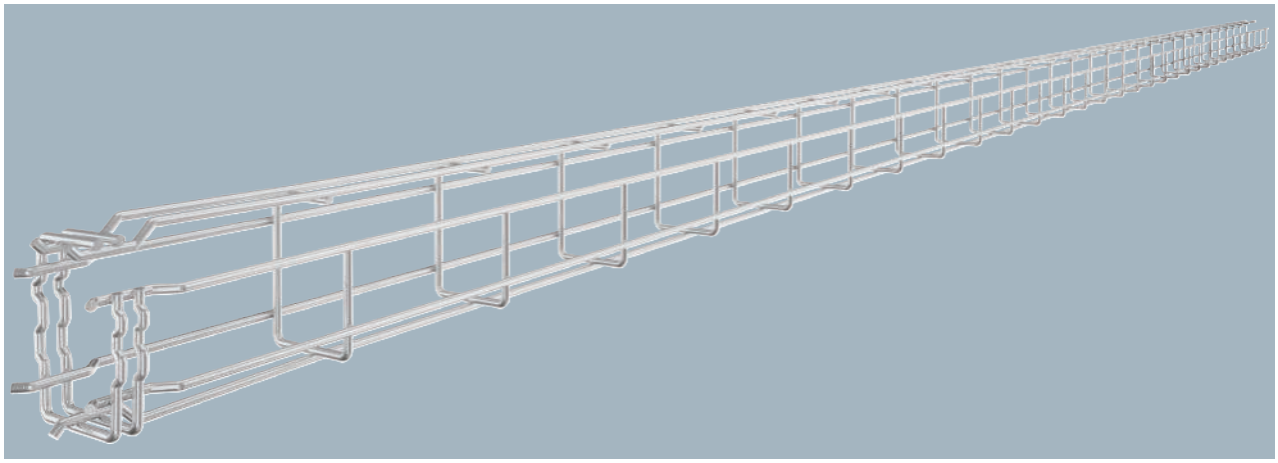
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Always indicate the item number when ordering.

G mesh cable trays, side height 75

G mesh cable tray Magic® 75

A2 2B



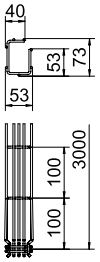
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 75 50 A2	75	3.9		3	79.467	**6005553**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 75 50 A2	3000	53	73	38	53

Dimensions



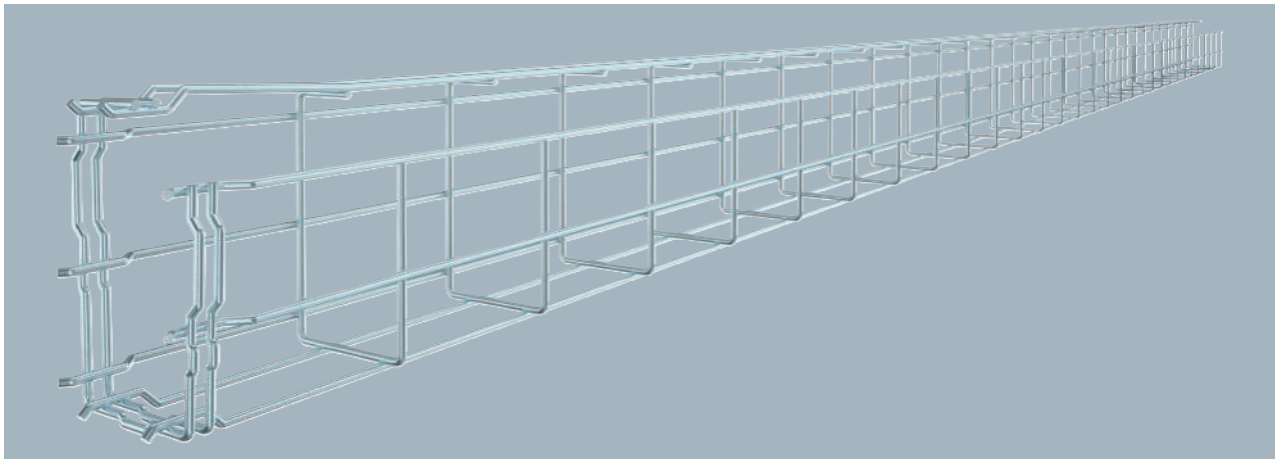
Load

G-GRM 75/50

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	-	-	-	-
Wall fastening K12 1818	0.3	0.2	0.15	0.1
Ceiling fastening K12 1818	0.35	0.2	0.15	0.1

St G

G mesh cable tray Magic® 125

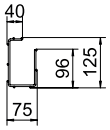


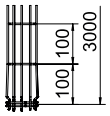
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 G	125	3.9		3	108.000	**6005541**

Dimensions





Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 G	3000	75	125	38	96

Load

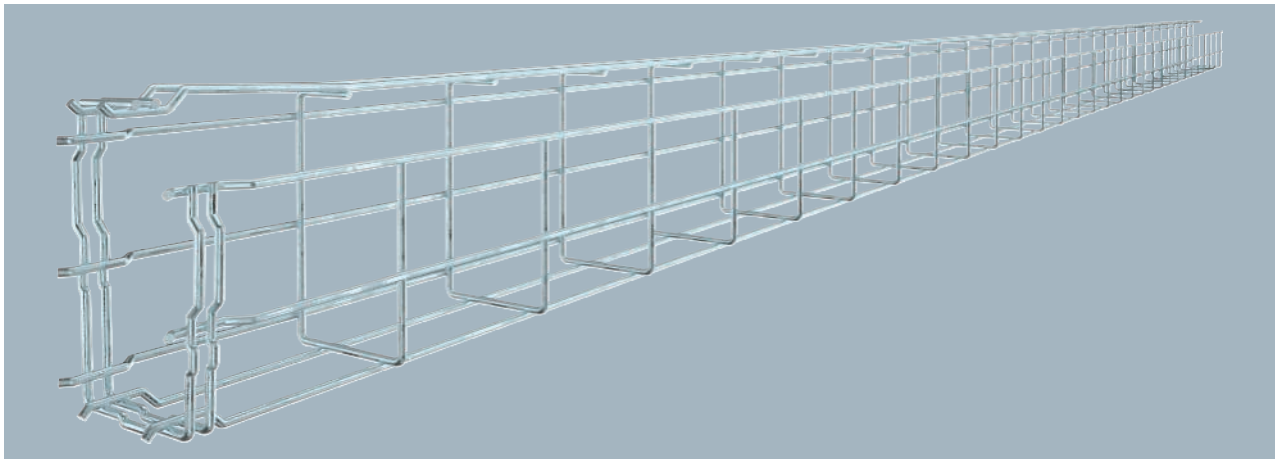
G-GRM 125/75				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

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G mesh cable trays, side height 125

G mesh cable tray Magic® 125

St FT



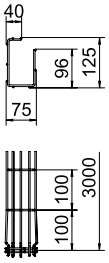
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 FT	125	3.9		3	113.667	**6005526**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 FT	3000	75	125	38	96

Dimensions

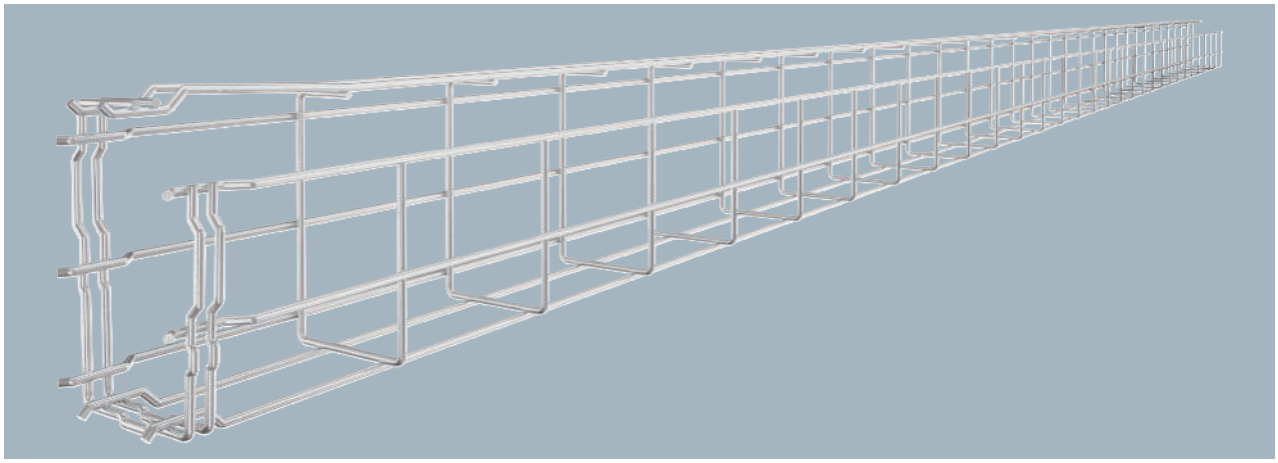


Load

G-GRM 125/75				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

A2 2B

G mesh cable tray Magic® 125

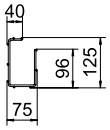


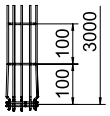
G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 125 75 A2	125	3.9	3	108.000	**6005556**

Dimensions





Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 125 75 A2	3000	75	125	38	96

Load

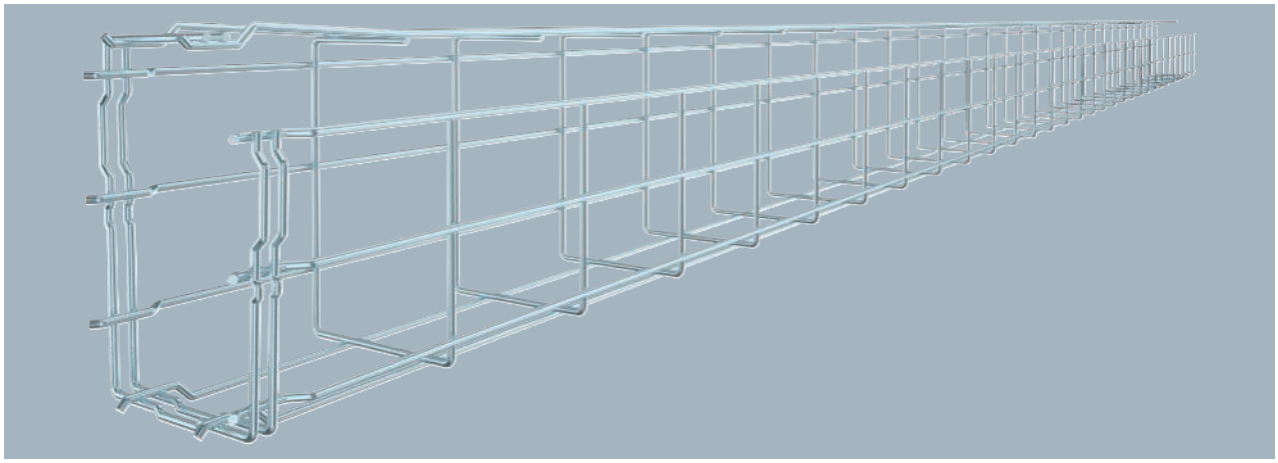
G-GRM 125/75				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.35	0.3	0.2
Wall fastening K12 1818	0.25	0.25	0.2	0.15
Ceiling fastening K12 1818	0.3	0.25	0.2	0.15

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G mesh cable trays, side height 150

G mesh cable tray Magic® 150

St G



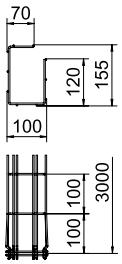
Type	Side height mm	Wire Ø mm		Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 G	150	3.9		3	127.333	**6005544**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 G	3000	100	155	68	120

Dimensions



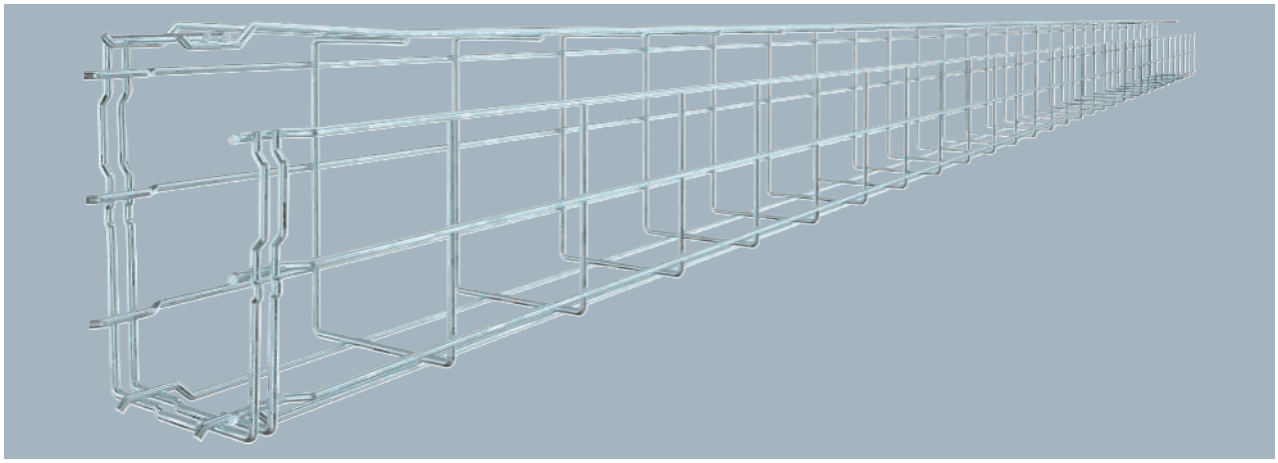
Load

G-GRM 150/100

	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

St FT

G mesh cable tray Magic® 150

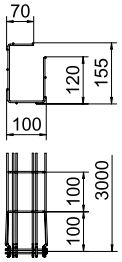


G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 FT	150	3.9	3	134.033	**6005529**

Dimensions



Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 FT	3000	100	155	68	120

Load

G-GRM 150/100				
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

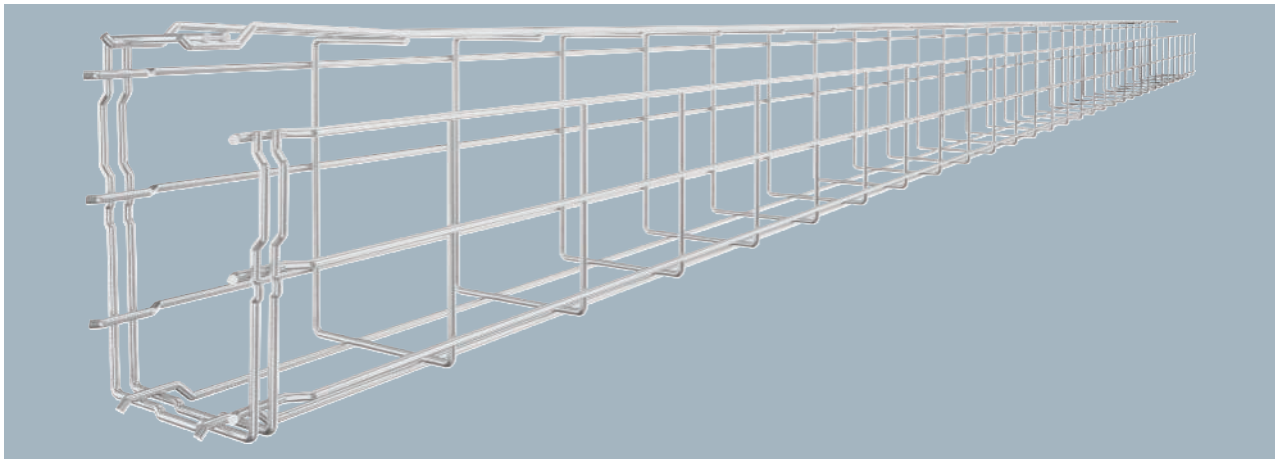
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Always indicate the item number when ordering.

G mesh cable trays, side height 150

G mesh cable tray Magic® 150

A2 2B



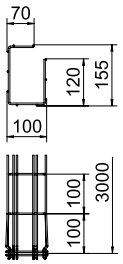
Type	Side height mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
G-GRM 150 100 A2	150	3.9	3	127.067	**6005559**

G-shaped mesh cable tray made of spot-welded steel wire with different side heights and widths.
Direct wall or ceiling mounting possible. Load capacity details regarding the different mounting methods are available upon request.

Magnetic shield insulation 15 dB.

Type	Length mm	Dim. B mm	Dim. H mm	Dim. C mm	Dim. A mm
G-GRM 150 100 A2	3000	100	155	68	120

Dimensions



Load

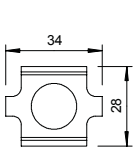
G-GRM 150/100

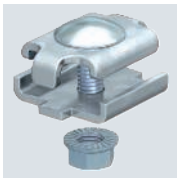
	Support spacing [m]			
	Load [kN/m]			
Fastening variant	1	1.5	2	2.5
Bracket MWAG 12-11	0.6	0.5	0.35	0.3
Wall fastening K12 1818	0.25	0.2	0.15	0.1
Ceiling fastening K12 1818	0.25	0.25	0.15	0.1

St G

Joint connector GSV 34

Type		Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 G		20	3.155	6016596





Screwed version of joint connector for mesh cable trays.

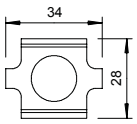
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

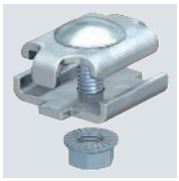
Including FRS M6 x 20 bolt with flange nut.

St FT

Joint connector GSV 34

Type		Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 FT		20	3.150	6016634





Screwed version of joint connector for mesh cable trays.

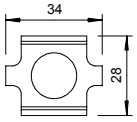
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including FRS M6 x 20 bolt with flange nut.

A2 2B

Joint connector GSV 34

Type		Pack Piece	Weight kg/100 pc.	Item no.
GSV 34 A2		20	2.572	6016642





Screwed version of joint connector for mesh cable trays.

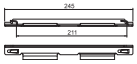
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
200–300 mm = 3 units
400–450 mm = 4 units
500–600 mm = 5 units

Including screw of type FRS M6 x 20.

St FS

GRV 245 mesh cable tray connector, long

Type	Width mm		Pack Piece	Weight kg/100 pc.	Item no.
GRV 245 FS	30		20	13.500	6016680





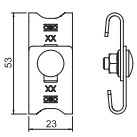
Long mesh cable tray connectors for screwless straight connection of mesh cable trays.

Two straight connectors, type GRV 245, are used for each connection point.
Can be used from a mesh cable tray width of 100 mm.
The FS variant is used to connect electrogalvanised mesh cable trays, the DD variant to connect hot/hot-dip galvanised mesh cable trays and the VA variant to connect stainless steel mesh cable trays.

St G

GEV 36 corner connector

Type		Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 G		20	3.040	6016715





Including FRS M6 x 12 bolt with flange nut.

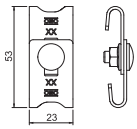
Corner connector for the creation of mesh cable tray bend elements.

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GEV 36 corner connector

St FT





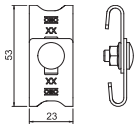
Type		Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 FT		20	3.160	**6016723**

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

GEV 36 corner connector

A2 2B



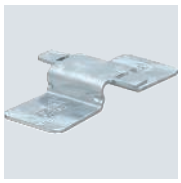


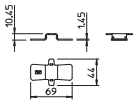
Type		Pack Piece	Weight kg/100 pc.	Item no.
GEV 36 A2		20	3.040	**6016731**

Including FRS M6 x 12 bolt with flange nut.
Corner connector for the creation of mesh cable tray bend elements.

GRS quick connector

St DD





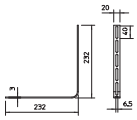
Type		Pack Piece	Weight kg/100 pc.	Item no.
GRS 3.9 DD		50	2.500	**6016545**
GRS 4.8 DD		50	2.500	**6016561**

Quick connector for screwless straight connection of mesh cable trays without special tools, for mesh cable trays up to a width of 150 mm.
Figure: Positioning and quantity of mesh cable tray connectors.
50–150 mm = 2 units
When selecting the connector, please take the appropriate wire thickness of the mesh cable tray into account.

Slotted steel strap, bent

St FT



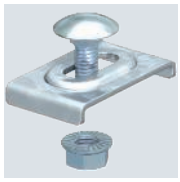


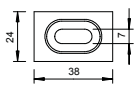
Type	Dimension mm		Pack Piece	Weight kg/100 pc.	Item no.
OSG 20X3 FT	20x3		25	15.800	**6017371**

Bent slotted steel strap for creation of bends and tees.

GKT 38 hold-down clamp

St G





Type		Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G		20	2.123	**6017037**

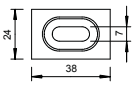
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

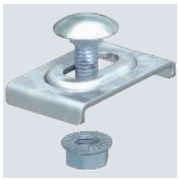
St FT

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	**6017061**

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



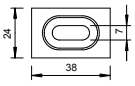


A2 2B

GKT 38 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2	20	2.107	**6017045**

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



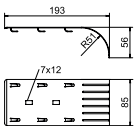


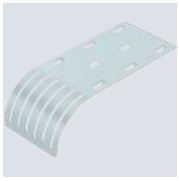
St FS FT

Drop-out plate

Type	Pack Piece	Weight kg/100 pc.	Item no.
KAB GR FS	10	14.100	**6220139**
KAB GR FT	10	14.100	**6220142**

The exit plate allows compliance with specific bend radii, thus preventing possible cable breaks. Can be mounted in a lengthwise direction and at the side, can be arranged for greater widths.



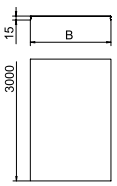


St FS

Cover for mesh cable tray, latchable

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 FS	50	0.75	3000	3	46.333	**6001840**
DGRR 100 FS	98	0.75	3000	3	73.333	**6001842**
DGRR 150 FS	148	0.75	3000	3	102.667	**6001844**
DGRR 200 FS	198	0.75	3000	3	132.333	**6001846**
DGRR 300 FS	298	0.75	3000	3	191.000	**6001848**
DGRR 400 FS	398	0.75	3000	3	250.000	**6001850**
DGRR 500 FS	498	0.75	3000	3	309.000	**6001852**
DGRR 600 FS	598	0.75	3000	3	370.000	**6001854**

With transverse bead from 400 mm width.
Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for interior areas without particular requirements.

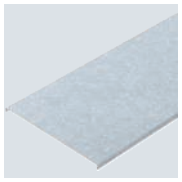


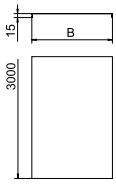


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Cover for mesh cable tray, latchable

St FT





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 FT	50	0.75	3000	3	52.333	**6001820**
DGRR 100 FT	98	0.75	3000	3	83.000	**6001822**
DGRR 150 FT	148	0.75	3000	3	116.333	**6001824**
DGRR 200 FT	198	0.75	3000	3	149.667	**6001826**
DGRR 300 FT	298	0.75	3000	3	216.333	**6001828**
DGRR 400 FT	398	0.75	3000	3	282.667	**6001830**
DGRR 500 FT	498	0.75	3000	3	349.667	**6001832**
DGRR 600 FT	598	0.75	3000	3	418.000	**6001834**

With transverse bead from 400 mm width.

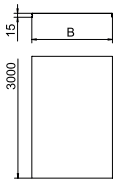
Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for industrial areas such as mechanical engineering.

When using covers outdoors, additional measures against the influence of wind may need to be taken.

Cover for mesh cable tray, latchable

A2 2B





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DGRR 50 A2	50	0.80	3000	3	47.333	**6001860**
DGRR 100 A2	97	0.80	3000	3	78.333	**6001862**
DGRR 150 A2	148	0.80	3000	3	109.667	**6001864**
DGRR 200 A2	198	0.80	3000	3	141.000	**6001866**
DGRR 300 A2	298	0.80	3000	3	203.667	**6001868**
DGRR 400 A2	398	0.80	3000	3	266.333	**6001870**
DGRR 500 A2	498	0.80	3000	3	329.333	**6001872**
DGRR 600 A2	598	0.80	3000	3	393.333	**6001874**

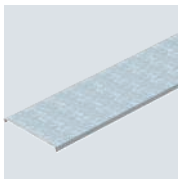
With transverse bead from 400 mm width.

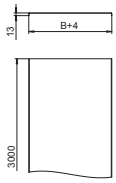
Latchable cover for mesh cable trays. Protects cables from damage, contamination and moisture from above. Suitable for the foodstuffs or chemicals industries.

When using covers outdoors, additional measures against the influence of wind may need to be taken.

Unperforated cover

St FS DD





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 FS	50	1.00	3000	3	59.767	**6052056**
DRLU 100 FS	100	1.00	3000	3	99.000	**6052103**
DRLU 150 FS	150	1.00	3000	3	138.267	**6052153**
DRLU 200 FS	200	1.00	3000	3	177.500	**6052210**
DRLU 300 FS	300	1.00	3000	3	256.000	**6052307**
DRLU 400 FS	400	1.00	3000	3	334.500	**6052405**
DRLU 500 FS	500	1.50	3000	3	619.234	**6052512**
DRLU 600 FS	600	1.50	3000	3	737.000	**6052609**
DRLU 050 DD	50	1.00	3000	3	59.770	**6052640**
DRLU 100 DD	100	1.00	3000	3	99.000	**6052643**
DRLU 150 DD	150	1.00	3000	3	138.267	**6052647**
DRLU 200 DD	200	1.00	3000	3	177.500	**6052650**
DRLU 300 DD	300	1.00	3000	3	256.000	**6052656**
DRLU 400 DD	400	1.00	3000	3	334.500	**6052662**
DRLU 500 DD	500	1.50	3000	3	619.234	**6052668**
DRLU 600 DD	600	1.50	3000	3	737.000	**6052674**

Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.

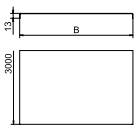
Transverse bead from 500 mm width.

A2 2B

Unperforated cover

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 A2	50	1.00	3000	3	59.767	**6052821**
DRLU 100 A2	100	1.00	3000	3	99.000	**6052824**
DRLU 200 A2	200	1.00	3000	3	177.500	**6052831**
DRLU 300 A2	300	1.00	3000	3	256.000	**6052834**
DRLU 400 A2	400	1.00	3000	3	334.500	**6052837**
DRLU 500 A2	500	1.50	3000	3	619.167	**6052841**
DRLU 600 A2	600	1.50	3000	3	736.900	**6052844**

Cover for cable trays and mesh cable trays.
When using covers outdoors, additional measures against the influence of wind must be taken.
Transverse bead from 500 mm width.



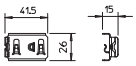


VA 2B

Hold-down clamp for separating retainer fastening in GRM

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS GR A2	30	0.830	**6062282**

Hold-down clamp for fastening separating retainer in mesh cable trays.



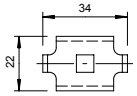


St G

GKS 34 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 G	20	2.188	**6016855**

Including FRS M6 x 20 bolt with flange nut.
Clamp for fixing mesh cable trays to wall or support brackets.



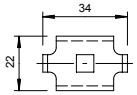


St FT

GKS 34 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 FT	20	2.021	**6016820**

Including FRS M6 x 20 bolt with flange nut.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.



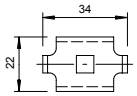


A2 2B

GKS 34 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
GKS 34 A2	20	2.000	**6016839**

Including FRS M6 x 20 bolt with nut and washer.
Hold-down clamp for fixing mesh cable trays to wall or support brackets.



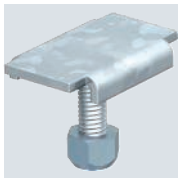


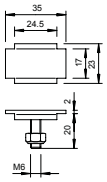
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Hold-down clamps

KS 23/35 hold-down clamp

St FT



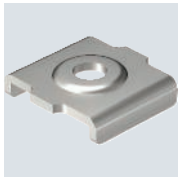


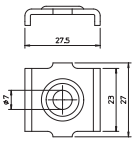
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS 23 35 FT	100	2.015	6015174

Including M6 locknut.
Clamp for mounting bracket, type MW 45 and MW 90.

GKB 34 hold-down clamp

St G



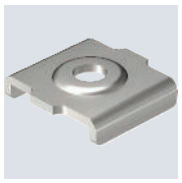


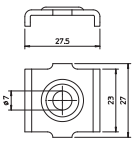
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKB 34 G	20	1.105	6016674

Clamp for fastening mesh cable trays of width 50 mm to the floor.

GKB 34 hold-down clamp

A2 2B



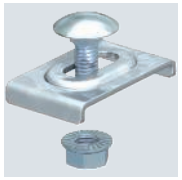


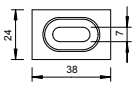
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKB 34 A2	20	1.105	6016676

Clamp for fastening mesh cable trays of width 50 mm to the floor.

GKT 38 hold-down clamp

St G



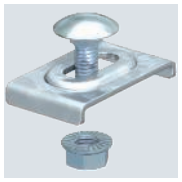


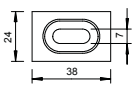
Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 G	20	2.123	6017037

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

GKT 38 hold-down clamp

St FT





Type	Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 FT	20	2.123	6017061

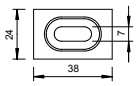
Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.

A2 2B

GKT 38 hold-down clamp

Type		Pack Piece	Weight kg/100 pc.	Item no.
GKT 38 A2		20	2.107	**6017045**

Including FRS M6 x 20 bolt with flange nut.
Clamp for fastening barrier strip in mesh cable trays.



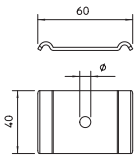


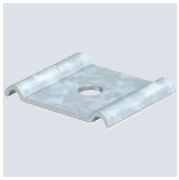
St FS FT

GKS 50 hold-down clamp

Type	Hole Ø mm		Pack Piece	Weight kg/100 pc.	Item no.
GKS 50 07 FS	7		50	3.522	**6015263**
GKS 50 11 FS	11		50	4.000	**6015276**
GKS 50 07 FT	7		50	3.590	**6015271**
GKS 50 11 FT	11		50	3.500	**6015278**

Use on mesh cable trays with 50 x 100 mm grid only.
Hold-down clamp for fastening mesh cable trays on the ground or on stand-off brackets of type DBL.



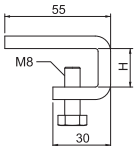


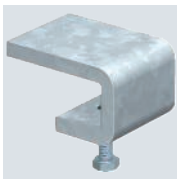
St FT

Beam clamp

Type	Height mm		Pack Piece	Weight kg/100 pc.	Item no.
KL 20 FT	20		10	19.000	**6003850**
KL 30 FT	30		10	22.500	**6003869**

When selecting the beam clamp, please take the flange thickness of the steel girder into account.
Beam clamp for fastening the mesh bracket, type GW 40 80 to steel girders.



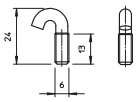


A2 2B

HS M6 hook screw

Type	Thread		Pack Piece	Weight kg/100 pc.	Item no.
HS M6x13 A2	M6		100	0.573	**1154990**

Hook screw for fastening cable tracks on the bracket.



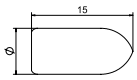


PVC

Protective caps

Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
GR KS 3.9 OR	Pure orange		500	0.045	**6003750**
GR KS 4.8 OR	Pure orange		500	0.030	**6003754**

Protective cap to cover cut wire ends of mesh cable trays.





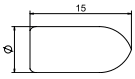
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End caps

End cap

PVC





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SGR KS OR	Pure orange	500	0.036	6003758

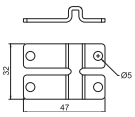
End cap to cover cut wire ends of mesh cable trays.

Wall and central fastener

Wall clamp and central hanger

St FT





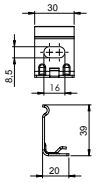
Type	Version	Pack Piece	Weight kg/100 pc.	Item no.
WB GR FT	For wire thickness 6.0 mm	20	2.540	6017160

Fastening component for direct mounting of mesh cable trays to the wall and floor. Can be screwed or riveted on.

Wall holder for GRM 35x50 mesh cable tray

St FT





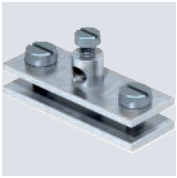
Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
WH GRM35 FT	35	50	10	1.950	6016443

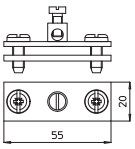
Wall holder for wall fastening of mesh cable trays, type GRM 35 50.

Equipotential bonding and earthing

Earthing terminal for cables and flat conductors

St G





Type	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
939	150	25	5.932	5043107

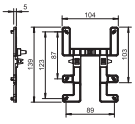
- For cables to 16 mm² and flat conductors
- Fit: cable to 16 mm² x max. FL 30
- With riveted brass connection terminal and one cylinder bolt, M5 x 12, with two cylinder bolts, M6 x 16

Mounting elements, junction box

Fastening element for mesh cable tray

PC





Type	Pack Piece	Weight kg/100 pc.	Item no.
BE TS GR	10	2.300	2007833

The fastening element BE TS GR can be used to attach OBO junction boxes, type T60 and T100, to mesh cable trays quickly and in a few actions.
This keeps the junction box securely in position. However, it can be quickly dismantled as necessary.

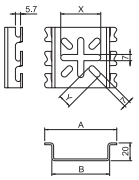
St FT



Mounting plate for mesh cable tray

Type		Pack Piece	Weight kg/100 pc.	Item no.
MPG 65 FT		30	9.100	**6006486**
MPG 90 FT		30	16.800	**6006487**

Mounting plate for screwless wall fastening of mesh cable trays.



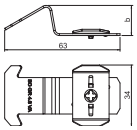


VA 2B

Hold-down clip

Type	Dim. b mm	Version		Pack Piece	Weight kg/100 pc.	Item no.
BC SGR A2	19	For wire Ø 6.0 mm		20	1.900	**6016668**

Hold-down clip for the screwless mounting of mesh cable trays onto MS profile rails with a slot width of 22 mm.



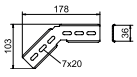


St FT

45° mounting bracket MW 45 SL10

Type		Pack Piece	Weight kg/100 pc.	Item no.
MW 45 SL10 FT		20	21.000	**6017320**

Each with two clamps of type KS 23 35.
45° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.



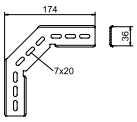


St FT

MW 90 SL 90° mounting bracket

Type		Pack Piece	Weight kg/100 pc.	Item no.
MW 90 SL17 FT		20	24.890	**6017347**
MW 90 SL23 FT		20	35.400	**6017355**

Each with two clamps of type KS 23/35.
90° installation profile, vertical, for C mesh cable tray and GR-Magic® mesh cable tray with a side height of 55 mm.





St

Bolt cutter

Type		Pack Piece	Weight kg/100 pc.	Item no.
GR BS		1	85.000	**6017698**

Bolt cutter for cutting mesh cable trays.



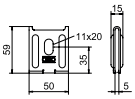
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Holders and fastenings

Wall clamp/central hanger

St FS





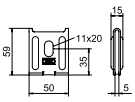
Type	Pack Piece	Weight kg/100 pc.	Item no.
K 12 1818 FS	25	7.800	6437109

As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.

Wall clamp/central hanger

A2 2B





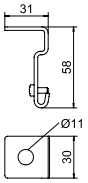
Type	Pack Piece	Weight kg/100 pc.	Item no.
K12 1818 A2	25	7.700	6016421

As wall fastening up to max. mesh cable tray width 200 mm.
As centre suspension up to max. mesh cable tray width 200 mm.
As a pendulum suspension from a width of 300 mm.
Wall clamp and central hanger for mesh cable trays.

Side holder

St FS FT



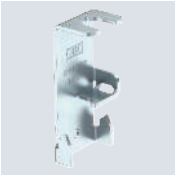


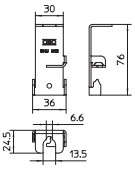
Type	Pack Piece	Weight kg/100 pc.	Item no.
SH M10 FS	50	5.800	6015336
SH M10 FT	50	5.650	6015338

Side holder for suspension of mesh cable trays.

Side holder, universal

St FS DD



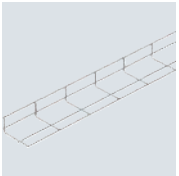


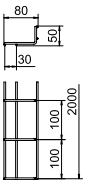
Type	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
SHU M12 FS	0.5	50	5.100	6015322
SHU M12 DD	0.5	50	5.100	6015324

Side holder to fasten cable trays, mesh cable trays and cable ladders to ceilings using a threaded rod.

Mesh angle

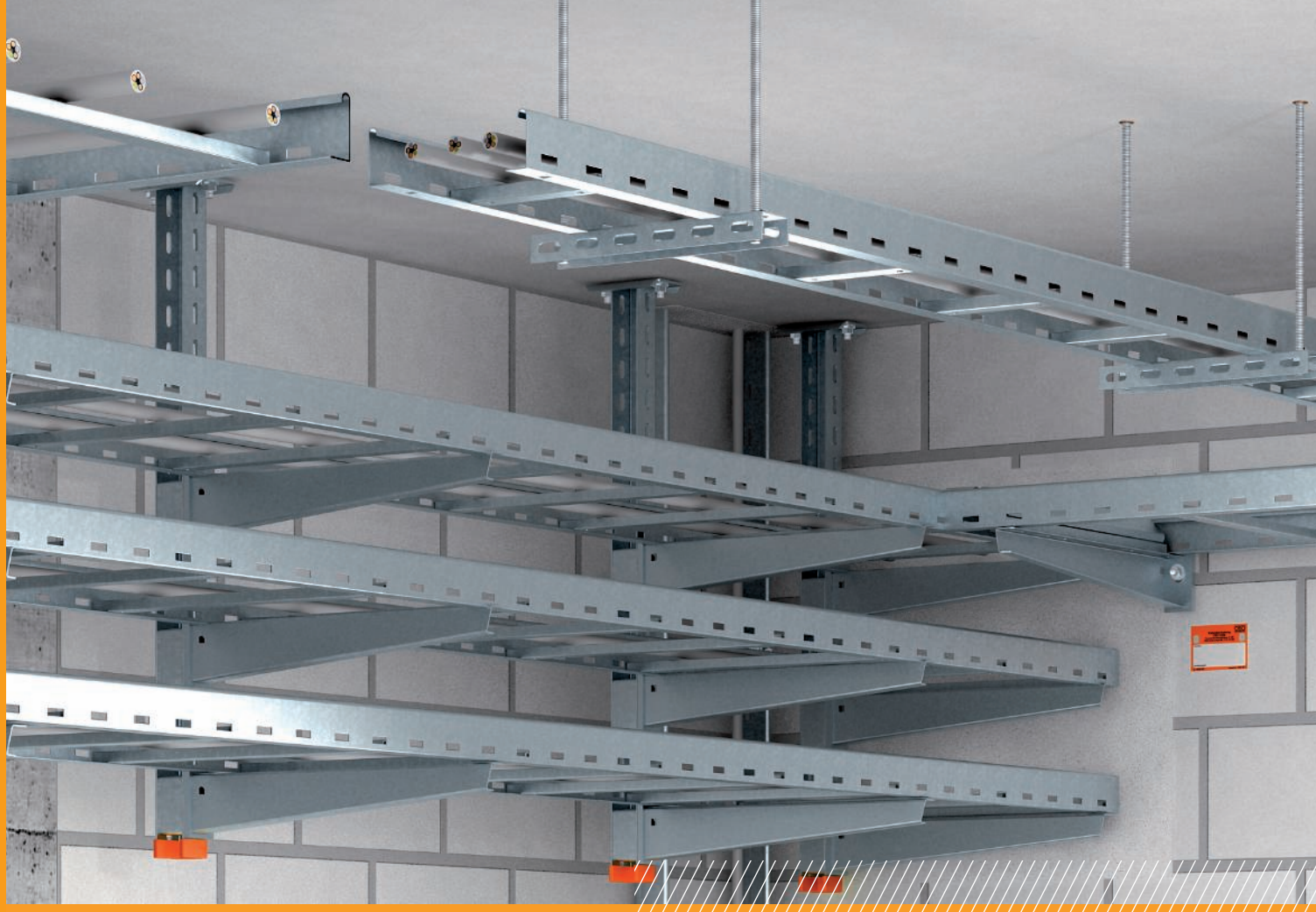
St FT





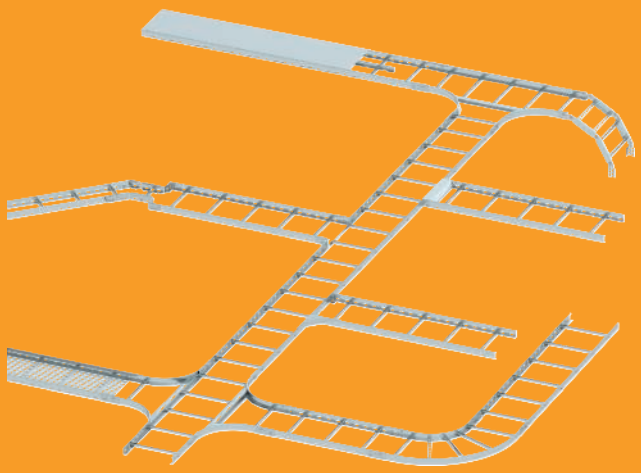
Type	Length mm	Wire Ø mm	Pack m	Weight kg/100 m	Item no.
GW 40 80 FT	2000	4.4	2	63.000	6003818

Mesh angle for routing cables in steel girders.
Magnetic shield insulation without cover 15 dB, with cover 25 dB.



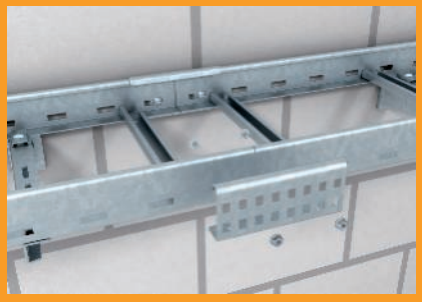
Riveted cable ladder systems

The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions.





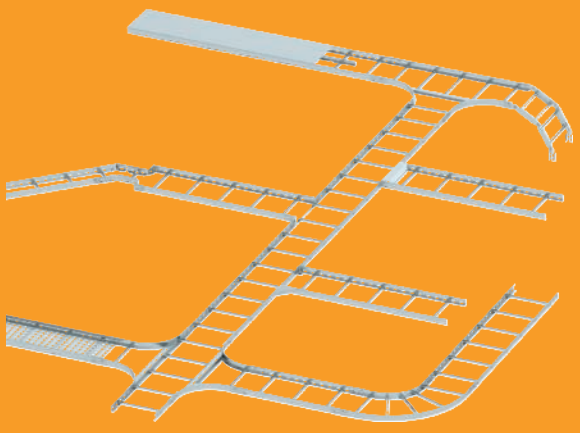






Welded cable ladder systems

The high load capacity and good ventilation of the OBO cable ladder systems can offer tangible benefits, in particular during the installation of power cables. OBO Bettermann's cable ladder systems can be used universally and, due to the continuous rail and rung perforation, can offer countless installation benefits. A factor guaranteeing easy mounting is the option of integrated fastening of cables using OBO U clamps to the rungs, which are available in various different versions.





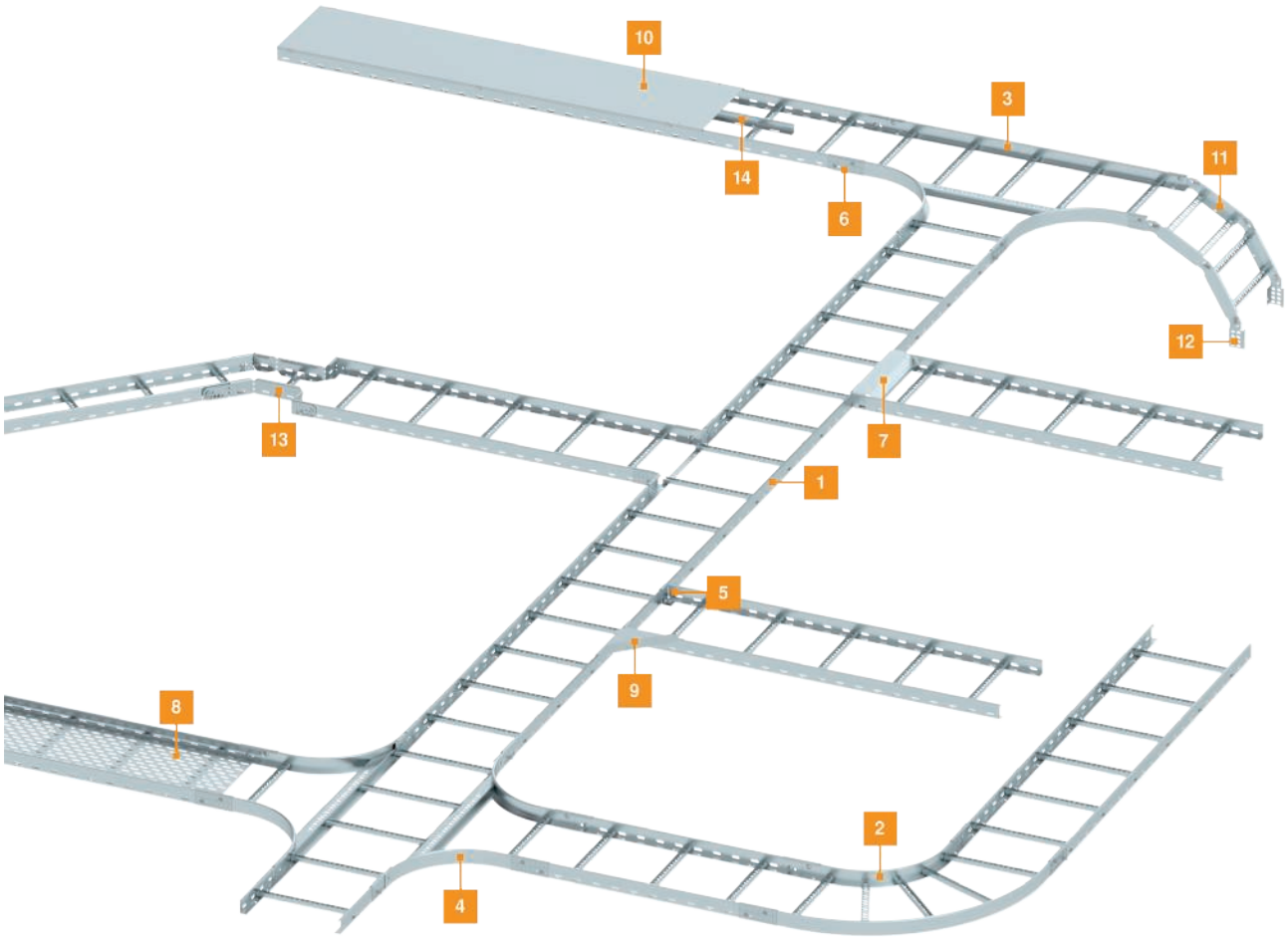




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Riveted cable ladder systems

Installation principle

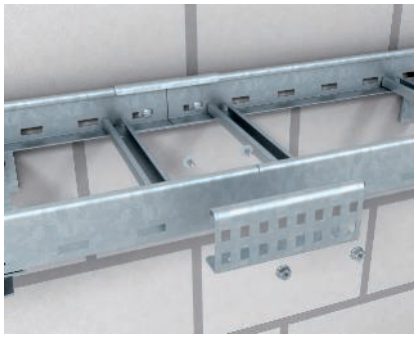


1	Cable ladders	11	Adjustable bend element
2	90° bend, welded	12	Adjustable connector
3	Tee, welded	13	Multifunctional connector
4	Add-on tee, welded	14	Barrier strip
5	Connection piece		
6	Straight connector		
7	Support plate		
8	Insertion plate		
9	Corner plate		
10	Cover with cover clamp		

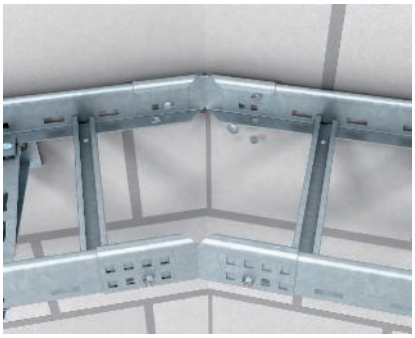
Mounting aid



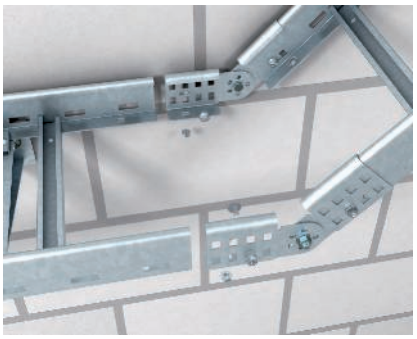
Jump application
Implementation of vertical jumps with adjustable connectors, e.g. for ceiling joists.



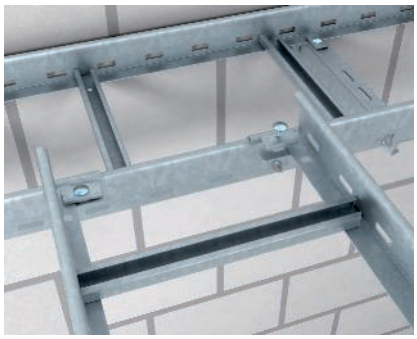
Straight connection of cable ladders
Straight connection of cable ladder with straight connector, type LVG.



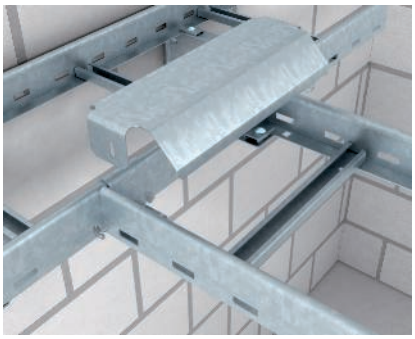
Horizontal angle connection of cable ladders
Horizontal angle connection with straight and angle connectors, type LWVG.



Vertical angle connection of cable ladders
Creation of a vertical angle connection using adjustable connectors, type LGVG.



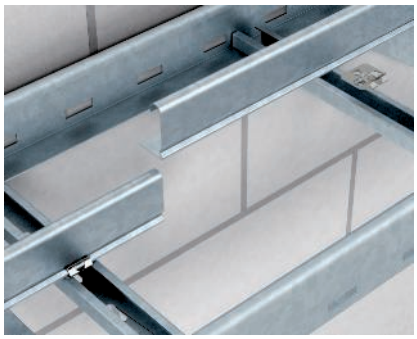
Installation of tee
Creation of a horizontal tee exit of two cable ladders at different heights. The support angle, type LAW, is required to fix two cable ladders.



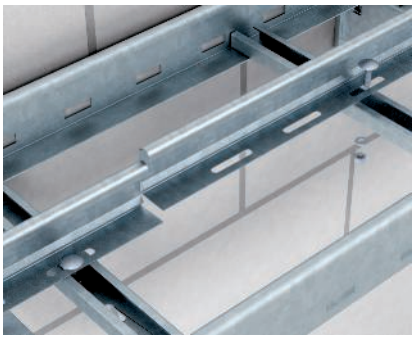
Tee with support plate
Creation of horizontal tees for cable ladders running at the same height. To increase the cable supporting surface and to protect the cables, use support plates, type LALB. Additional supports should be planned for the area of the exits.



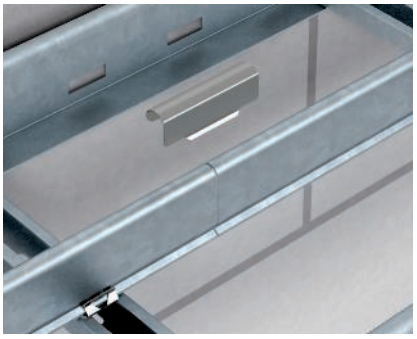
Vertical cable exit
The exit plate, type LAB, is used to increase the cable supporting surface for vertically exiting cables and as cable protection.



Screwless barrier strip fastening
Screwless fastening of a barrier strip in cable ladders with hold-down clamp, type KS KL.



Screwed barrier strip fastening
Screwed mounting of the TSG barrier strip through the perforated rung of the cable ladders.



Straight barrier strip connection
Screwless straight connection of barrier strips in cable ladders using the barrier strip TSGV.

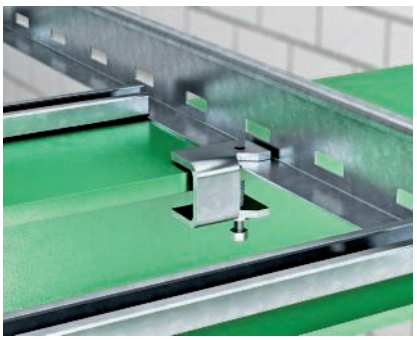


Installation of insert plate
Installation of insert plates, type ELB-L.

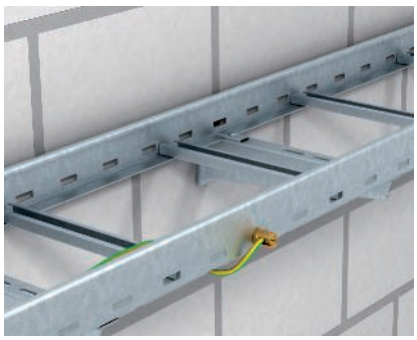


Cover mounting
Covers for cable trays and cable ladders can be extended to a locking cover using the cover clamp DK DRLU A2.

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Cable ladder hold-down clamp
Cable ladder hold-down clamp KLL for direct mounting of cable ladders to steel girders.

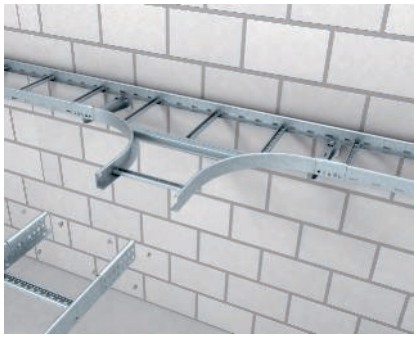


Earthing terminal/earth connection
Earthing terminal for fastening the equipotential bonding wire to the cable support system.

Mounting aid



Adjustable vertical bend
Adjustable bend from adjustable bend elements of the type LGBE with adjustable connector for the bridging of height offsets.



Tee
Creation of a one-sided branch with a tee of the type LAA.



Add-on tee, symmetrical
Mounting two add-on tees, type LAA, on a cable ladder as symmetrical cross-over.



Mounting of a tee
Mounting of a tee of the type LT to create a one-sided branch for cable ladders.



90° bend
Connection of two cable ladders at a horizontal 90° angle with a bend, type LB 90.



Multifunctional connector for cable ladders
Creation of a one-sided branch with a multifunctional connector of the type LMFV.

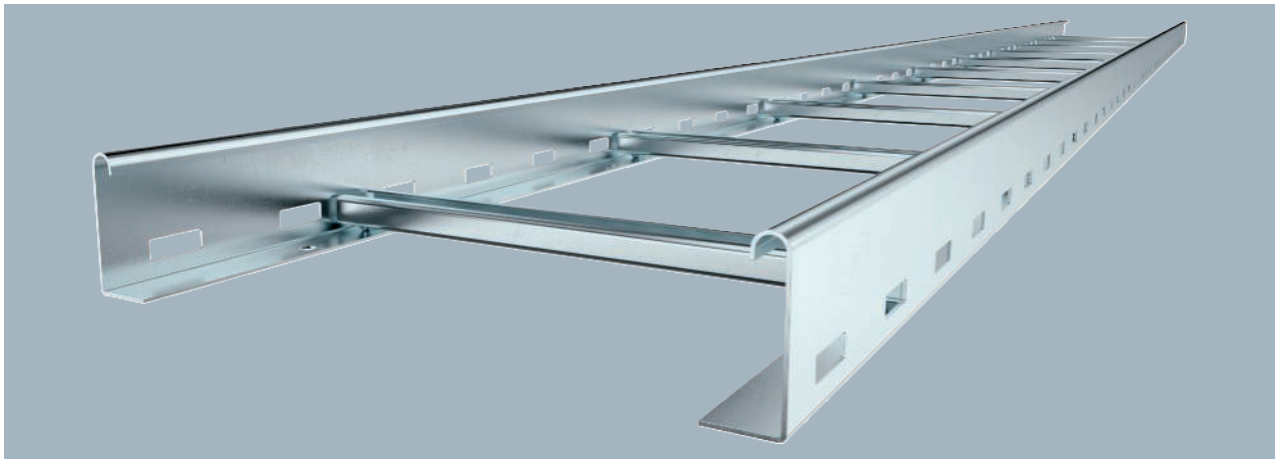


Multifunctional connector for cable ladders
Creation of a reduction, including 45° angle, using a multifunctional connector, type LMFV.

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Cable ladder LCIS 60, 3 m C30

St FS

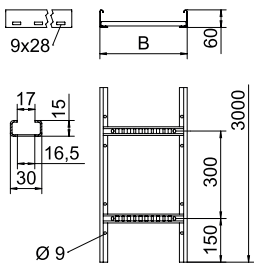


Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 620 3 FS	200	3	266.670	**6209610**
LCIS 630 3 FS	300	3	288.670	**6209612**
LCIS 640 3 FS	400	3	310.340	**6209614**
LCIS 650 3 FS	500	3	332.340	**6209616**
LCIS 660 3 FS	600	3	354.000	**6209618**

Cable ladder with a 60 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using hold-down clamps, type LKS 40. The slot dimension of the rung is 16.5 mm and the appropriate clamp clip is type 2056.

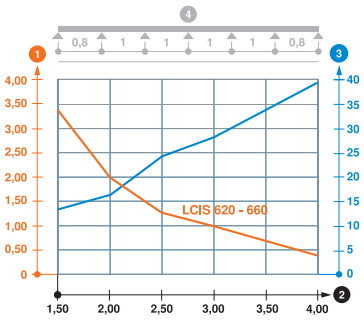
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm^2	Rung spacing mm
LCIS 620 3 FS	3000	200	1.5	80	300
LCIS 630 3 FS	3000	300	1.5	120	300
LCIS 640 3 FS	3000	400	1.5	160	300
LCIS 650 3 FS	3000	500	1.5	200	300
LCIS 660 3 FS	3000	600	1.5	240	300

Dimensions



Type	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 620 3 FS	3.3	2	1.3	1	0.4
LCIS 630 3 FS	3.3	2	1.3	1	0.4
LCIS 640 3 FS	3.3	2	1.3	1	0.4
LCIS 650 3 FS	3.3	2	1.3	1	0.4
LCIS 660 3 FS	3.3	2	1.3	1	0.4

Load



Load diagram LCIS 60

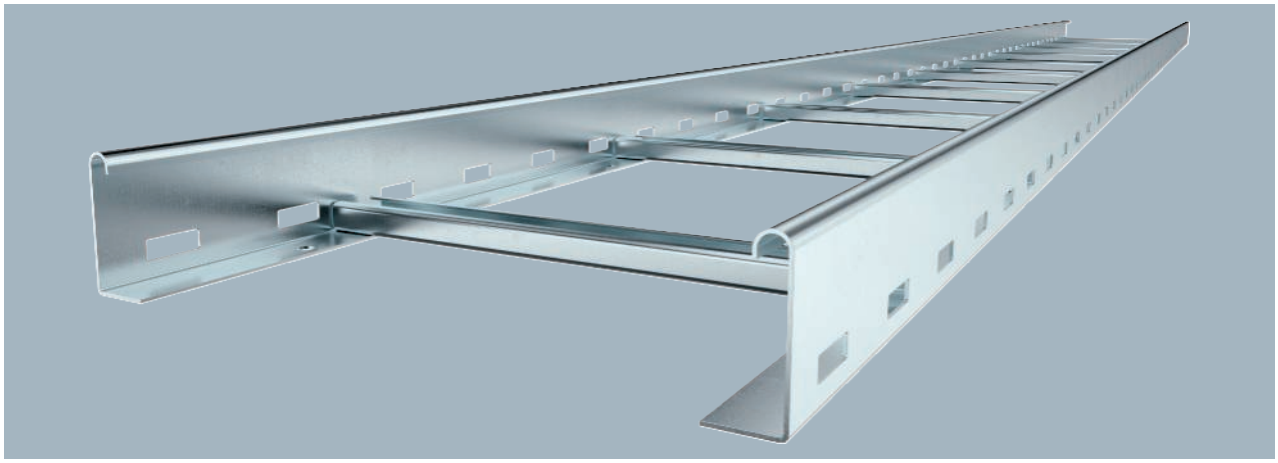
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable ladder LG 60, 3 m VS

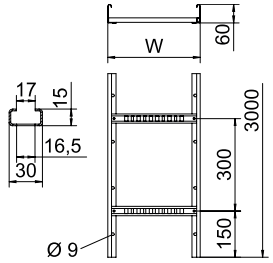


The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

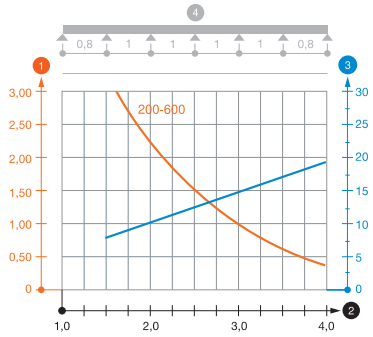
Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 3 FS	200		3	267.000	**6208538**
LG 630 VS 3 FS	300		3	288.933	**6208541**
LG 640 VS 3 FS	400		3	314.600	**6208544**
LG 650 VS 3 FS	500		3	332.600	**6208547**
LG 660 VS 3 FS	600		3	354.266	**6208550**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS 3 FS	3000	200	1.5	98	300
LG 630 VS 3 FS	3000	300	1.5	148	300
LG 640 VS 3 FS	3000	400	1.5	198	300
LG 650 VS 3 FS	3000	500	1.5	248	300
LG 660 VS 3 FS	3000	600	1.5	298	300

Load



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 3 FS	2.25	1.5	1.1	0.45
LG 630 VS 3 FS	2.25	1.5	1.1	0.45
LG 640 VS 3 FS	2.25	1.5	1.1	0.45
LG 650 VS 3 FS	2.25	1.5	1.1	0.45
LG 660 VS 3 FS	2.25	1.5	1.1	0.45

Load diagram, LG 60 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

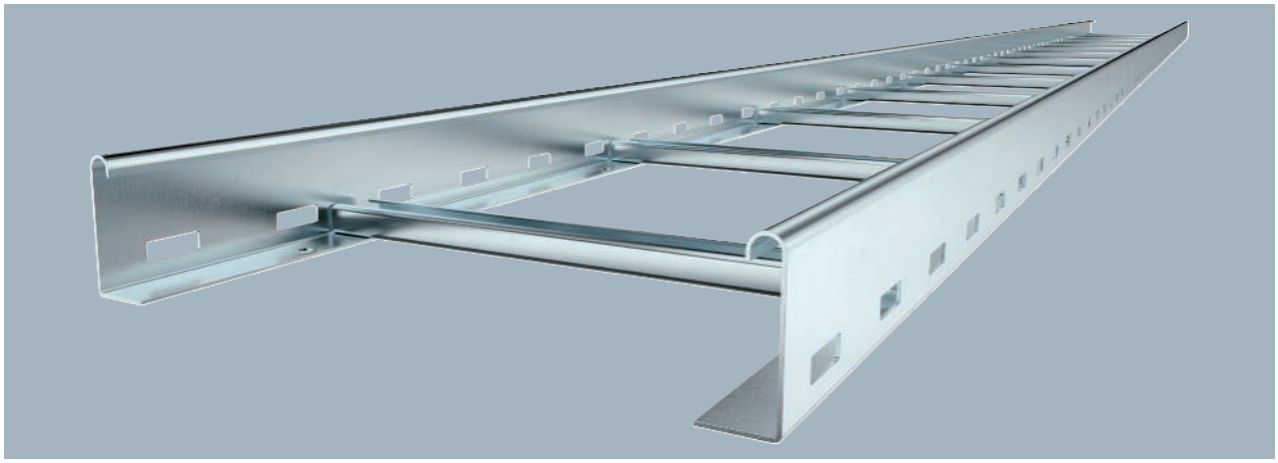
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

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St FS

Cable ladder LG 60, 6 m VS



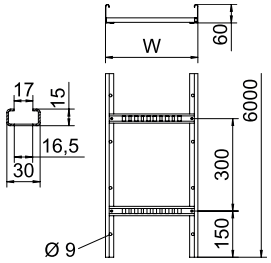
Type	Width mm	BS		Pack m	Weight kg/100 m	Item no.
LG 620 VS 6 FS	200			6	267.066	**6208627**
LG 630 VS 6 FS	300			6	288.733	**6208630**
LG 640 VS 6 FS	400			6	314.400	**6208633**
LG 650 VS 6 FS	500			6	332.400	**6208636**
LG 660 VS 6 FS	600			6	354.066	**6208639**

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

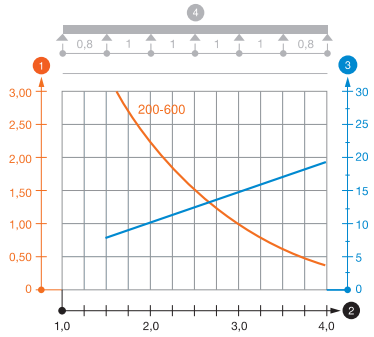
Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS 6 FS	6000	200	1.5	98	300
LG 630 VS 6 FS	6000	300	1.5	148	300
LG 640 VS 6 FS	6000	400	1.5	198	300
LG 650 VS 6 FS	6000	500	1.5	248	300
LG 660 VS 6 FS	6000	600	1.5	298	300

Dimensions



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 6 FS	2.25	1.5	1.1	0.45
LG 630 VS 6 FS	2.25	1.5	1.1	0.45
LG 640 VS 6 FS	2.25	1.5	1.1	0.45
LG 650 VS 6 FS	2.25	1.5	1.1	0.45
LG 660 VS 6 FS	2.25	1.5	1.1	0.45

Load



Load diagram, LG 60 VS

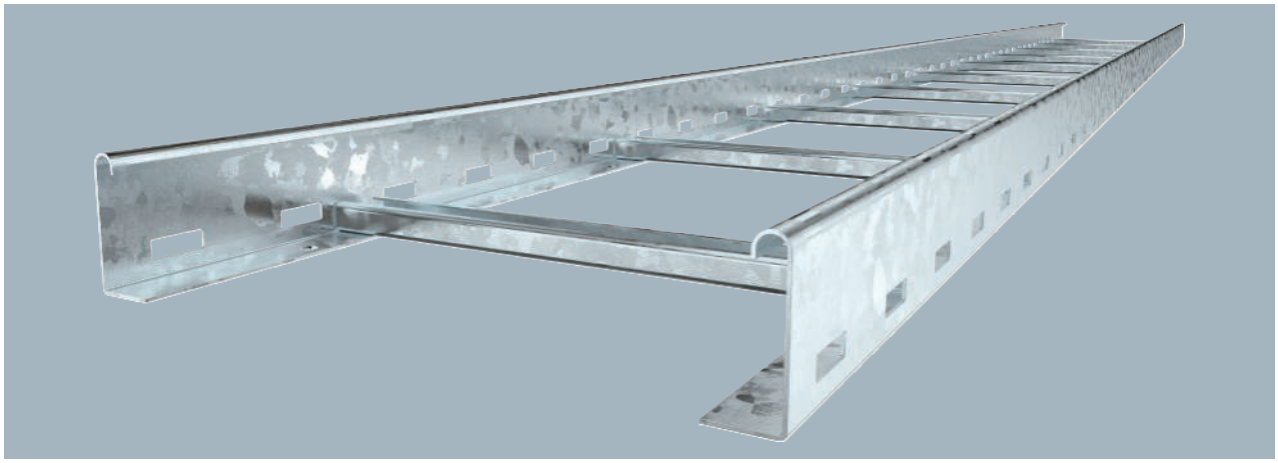
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

Cable ladder LG 60, 3 m VS

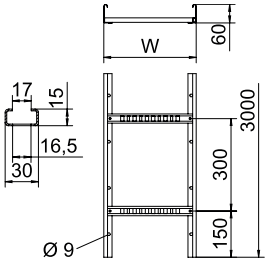


The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for the maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

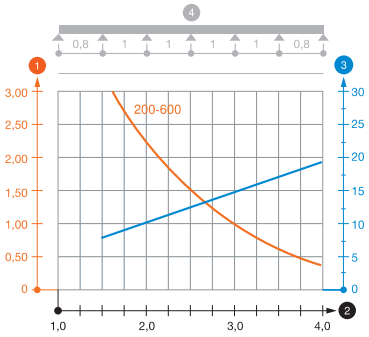
Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 3 FT	200		3	285.066	**6208562**
LG 630 VS 3 FT	300		3	308.000	**6208566**
LG 640 VS 3 FT	400		3	331.000	**6208570**
LG 650 VS 3 FT	500		3	354.733	**6208574**
LG 660 VS 3 FT	600		3	385.400	**6208578**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS 3 FT	3000	200	1.5	98	300
LG 630 VS 3 FT	3000	300	1.5	148	300
LG 640 VS 3 FT	3000	400	1.5	198	300
LG 650 VS 3 FT	3000	500	1.5	248	300
LG 660 VS 3 FT	3000	600	1.5	298	300

Load



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 3 FT	2.25	1.5	1.1	0.45
LG 630 VS 3 FT	2.25	1.5	1.1	0.45
LG 640 VS 3 FT	2.25	1.5	1.1	0.45
LG 650 VS 3 FT	2.25	1.5	1.1	0.45
LG 660 VS 3 FT	2.25	1.5	1.1	0.45

Load diagram, LG 60 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable ladder LG 60, 6 m VS

St FT



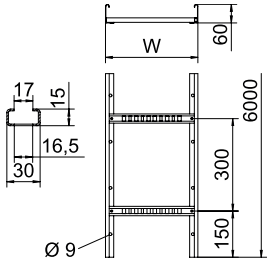
Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 6 FT	200		6	284.833	**6208650**
LG 640 VS 6 FT	400		6	330.833	**6208656**
LG 650 VS 6 FT	500		6	354.500	**6208659**
LG 660 VS 6 FT	600		6	385.166	**6208661**

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

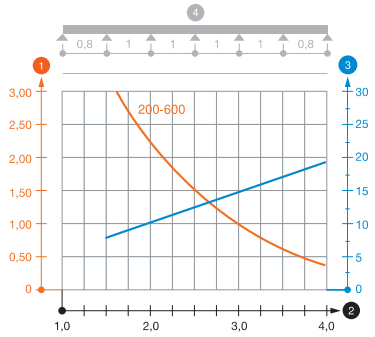
Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm^2	Rung spacing mm
LG 620 VS 6 FT	6000	200	1.5	98	300
LG 640 VS 6 FT	6000	400	1.5	198	300
LG 650 VS 6 FT	6000	500	1.5	248	300
LG 660 VS 6 FT	6000	600	1.5	298	300

Dimensions



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 VS 6 FT	2.25	1.5	1.1	0.45
LG 640 VS 6 FT	2.25	1.5	1.1	0.45
LG 650 VS 6 FT	2.25	1.5	1.1	0.45
LG 660 VS 6 FT	2.25	1.5	1.1	0.45

Load



Load diagram, LG 60 VS

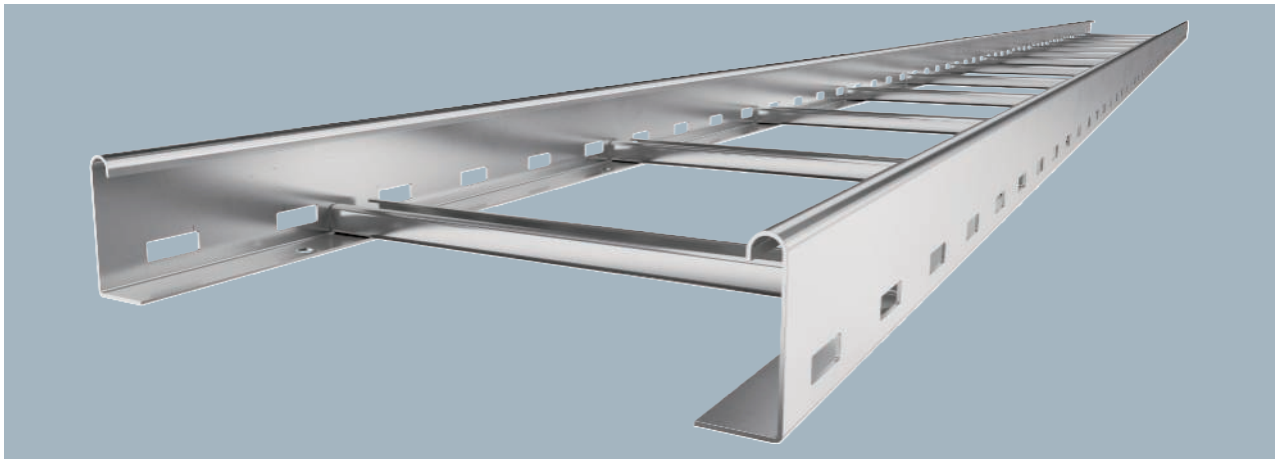
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

A2 2B

Cable ladder LG 60, 6 m VS

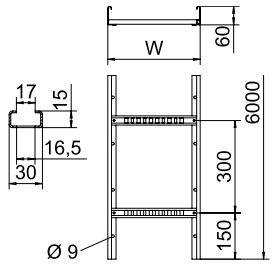


The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

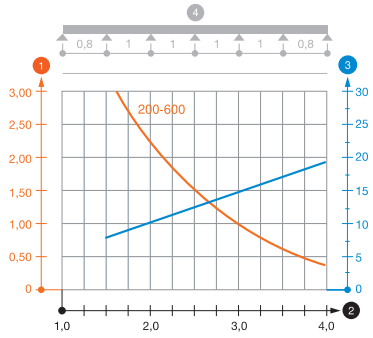
Type	Width mm		Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A2	200		6	267.067	**6208700**
LG 630 VS6 A2	300		6	288.733	**6208703**
LG 640 VS6 A2	400		6	314.400	**6208706**
LG 650 VS6 A2	500		6	332.400	**6208709**
LG 660 VS6 A2	600		6	354.066	**6208712**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS6 A2	6000	200	1.5	98	300
LG 630 VS6 A2	6000	300	1.5	148	300
LG 640 VS6 A2	6000	400	1.5	198	300
LG 650 VS6 A2	6000	500	1.5	248	300
LG 660 VS6 A2	6000	600	1.5	298	300

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	3.5 m kN/m	4.0 m kN/m
LG 620 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 630 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 640 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 650 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45
LG 660 VS6 A2	3.1	2.25	1.5	1.1	0.75	0.45

Load diagram, LG 60 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

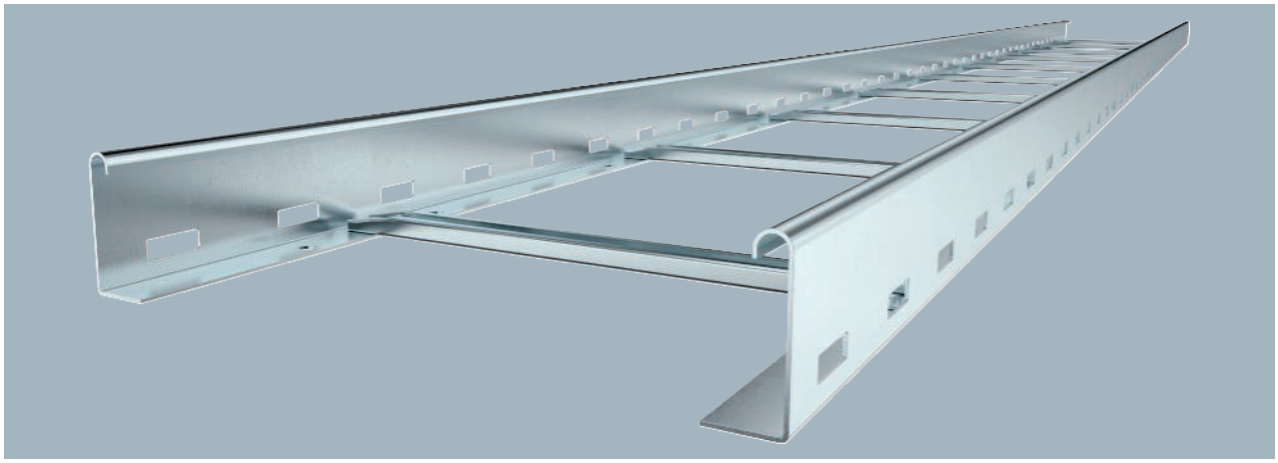
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

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St FS

Cable ladder LG 60, 3 m NS



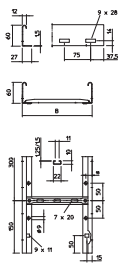
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 620 NS 3 FS	200	3	247.640	**6208506**
LG 630 NS 3 FS	300	3	262.070	**6208509**
LG 640 NS 3 FS	400	3	276.070	**6208512**
LG 650 NS 3 FS	500	3	301.670	**6208515**
LG 660 NS 3 FS	600	3	318.200	**6208518**

The cable ladder is shipped folded up.
You can find the appropriate U clamp of type 2056N in the vertical ladder systems chapter.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile rungs, open in an upwards direction (NS version).

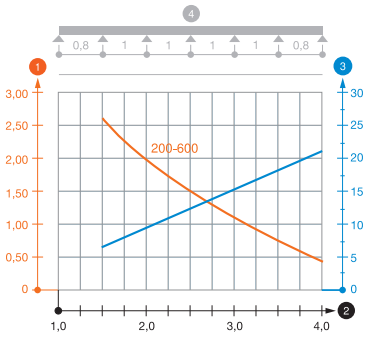
Type	Length mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 NS 3 FS	3000	1.5	98	300
LG 630 NS 3 FS	3000	1.5	148	300
LG 640 NS 3 FS	3000	1.5	198	300
LG 650 NS 3 FS	3000	1.5	248	300
LG 660 NS 3 FS	3000	1.5	298	300

Dimensions



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LG 620 NS 3 FS	2	1.5	1	0.4
LG 630 NS 3 FS	2	1.5	1	0.4
LG 640 NS 3 FS	2	1.5	1	0.4
LG 650 NS 3 FS	2	1.5	1	0.4
LG 660 NS 3 FS	2	1.5	1	0.4

Load



Load diagram, LG 60 NS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

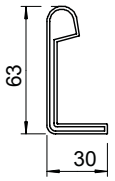
— Strut bend curve according to support width

PE

Protective cap 60

Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 60 OR	Pastel orange	40	1.072	6222537

Protective cap to cover cable ladder ends of side height 60 mm.





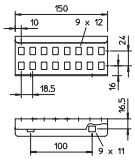
St FS FT

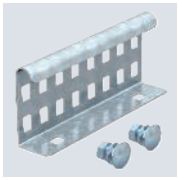
Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 FS	60	10	22.000	6208840
LVG 60 FT	60	10	23.000	6208843

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.





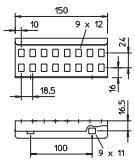
A2 2B

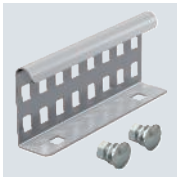
Straight connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 A2	60	10	22.000	6208846

Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.



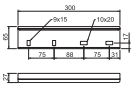


St FT

LDVG 60 expansion connector

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LDVG 60 FT	60	2	61.700	6208970

Connector for expansion for compensation of linear thermal expansion. The tightening torques of the self-locking screws on the loose bearing side are 5 Nm.



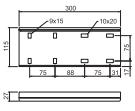


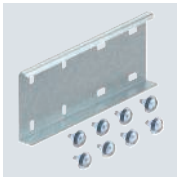
St FT

Expansion connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LDVG 110 FT	110	2	100.500	6216670

Connector for expansion for compensation of linear thermal expansion. The tightening torques of the self-locking screws on the loose bearing side are 5 Nm.

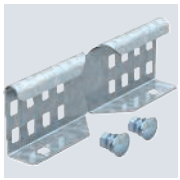


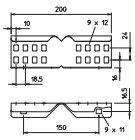


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Angle connector 60

St FS





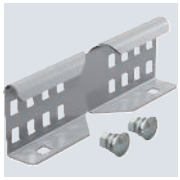
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 FS	60	10	24.000	**6208895**

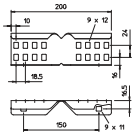
The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Angle connector 60

A2 2B





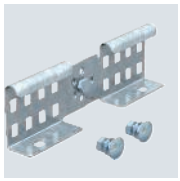
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 A2	60	10	24.000	**6208898**

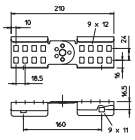
The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Adjustable connector 60

St FS FT





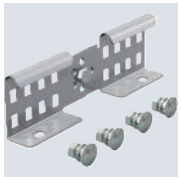
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 FS	60	10	28.500	**6208941**
LGVG 60 FT	60	10	29.900	**6208944**

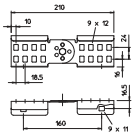
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

Adjustable connector 60

A2 2B





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 A2	60	10	28.500	**6208947**

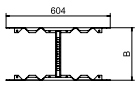
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

Multifunctional connector 60

St FS FT





Type	Dim. B mm	Side height mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LMFV 620 FS	200	60	1.50	1	123.200	**6225710**
LMFV 630 FS	300	60	1.50	1	129.700	**6225712**
LMFV 640 FS	400	60	1.50	1	136.200	**6225714**
LMFV 650 FS	500	60	1.50	1	142.800	**6225716**
LMFV 660 FS	600	60	1.50	1	149.300	**6225718**
LMFV 620 FT	200	60	1.50	1	130.600	**6225730**
LMFV 630 FT	300	60	1.50	1	137.500	**6225732**
LMFV 640 FT	400	60	1.50	1	144.400	**6225734**
LMFV 650 FT	500	60	1.50	1	151.300	**6225736**
LMFV 660 FT	600	60	1.50	1	158.200	**6225738**

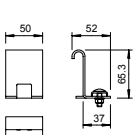
Multifunctional connector for joining cable ladders with a side height of 60 mm. Symmetrical and asymmetrical reductions, infinitely-adjustable bends between 0–60° and add-on tees can be created.

St FS FT

Connection piece 60

Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 60 FS	10	13.000	6221351
LAS 60 FT	10	13.600	6221378

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.



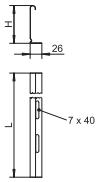


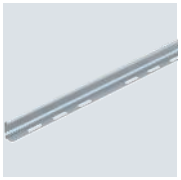
St FS DD

Separating retainer 45

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 FS	45	0.75	3000	3	46.700	6062033
TSG 45 DD	45	0.75	3000	3	46.812	6062321

Separating retainer for separation of cables of different voltages or functions.



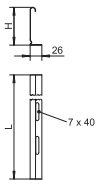


A2 2B

Separating retainer 45

Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 45 A2	45	0.75	3000	3	49.850	6062025

Separating retainer for separation of cables of different voltages or functions.



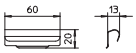


VA 2B

Separating retainer connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	6067970

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.



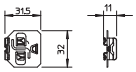


VA 2B

Hold-down clamp for separating retainer fastening

Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	6062284

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.





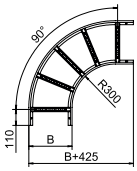
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LG cable ladder system, side height 60

90° bend 60

St FS FT





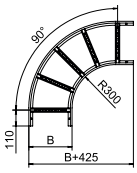
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LB 90 620 R3 FS	200	1.5	1	254.500	6225042
LB 90 630 R3 FS	300	1.5	1	318.300	6225044
LB 90 640 R3 FS	400	1.5	1	368.700	6225046
LB 90 650 R3 FS	500	1.5	1	458.600	6225048
LB 90 660 R3 FS	600	1.5	1	524.600	6225050
LB 90 620 R3 FT	200	1.5	1	269.800	6225062
LB 90 630 R3 FT	300	1.5	1	338.500	6225064
LB 90 640 R3 FT	400	1.5	1	392.100	6225066
LB 90 650 R3 FT	500	1.5	1	492.600	6225068
LB 90 660 R3 FT	600	1.5	1	562.700	6225070

90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

90° bend 60

A2 2B





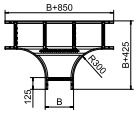
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LB 90 620 R3 A2	200	1.5	1	257.800	6225082
LB 90 630 R3 A2	300	1.5	1	322.300	6225084
LB 90 640 R3 A2	400	1.5	1	373.400	6225086
LB 90 650 R3 A2	500	1.5	1	458.600	6225088
LB 90 660 R3 A2	600	1.5	1	524.600	6225090

90° bend, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

T piece 60

St FS FT





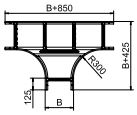
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 620 R3 FS	200	1.5	1	468.700	6225210
LT 630 R3 FS	300	1.5	1	531.000	6225212
LT 640 R3 FS	400	1.5	1	619.700	6225214
LT 650 R3 FS	500	1.5	1	688.600	6225216
LT 660 R3 FS	600	1.5	1	757.400	6225218
LT 620 R3 FT	200	1.5	1	494.800	6225230
LT 630 R3 FT	300	1.5	1	595.500	6225232
LT 640 R3 FT	400	1.5	1	656.500	6225234
LT 650 R3 FT	500	1.5	1	729.500	6225236
LT 660 R3 FT	600	1.5	1	797.100	6225238

T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

T piece 60

A2 2B





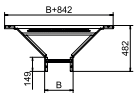
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 620 R3 A2	200	1.5	1	474.600	6225250
LT 630 R3 A2	300	1.5	1	537.800	6225252
LT 640 R3 A2	400	1.5	1	627.700	6225254
LT 650 R3 A2	500	1.5	1	697.400	6225256
LT 660 R3 A2	600	1.5	1	767.200	6225258

T piece, horizontal, with welded rung for all cable ladder types of 60 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

Add-on tee 60

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAA 620 R3 FS	200	1.5	1	306.000	6225850
LAA 630 R3 FS	300	1.5	1	328.000	6225852
LAA 640 R3 FS	400	1.5	1	351.000	6225854
LAA 650 R3 FS	500	1.5	1	373.000	6225856
LAA 660 R3 FS	600	1.5	1	395.000	6225858
LAA 620 R3 FT	200	1.5	1	316.000	6225870
LAA 630 R3 FT	300	1.5	1	339.000	6225872
LAA 640 R3 FT	400	1.5	1	363.000	6225874
LAA 650 R3 FT	500	1.5	1	387.000	6225876
LAA 660 R3 FT	600	1.5	1	410.000	6225878



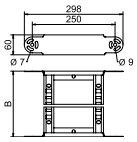


Mounting/branch with welded rung for use in the cable ladder types with a side height of 60 mm.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

Adjustable bend element 60

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBE 620 FS	200	1.5	1	84.000	6225450
LGBE 630 FS	300	1.5	1	97.000	6225452
LGBE 640 FS	400	1.5	1	109.900	6225454
LGBE 650 FS	500	1.5	1	122.900	6225456
LGBE 660 FS	600	1.5	1	135.900	6225458
LGBE 620 FT	200	1.5	1	89.000	6225470
LGBE 630 FT	300	1.5	1	102.600	6225472
LGBE 640 FT	400	1.5	1	116.400	6225474
LGBE 650 FT	500	1.5	1	130.200	6225476
LGBE 660 FT	600	1.5	1	144.000	6225478



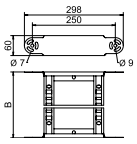


Adjustable bend element with welded rung for use in the cable ladder types with a side height of 60 mm.

A2 2B

Adjustable bend element 60

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBE 620 A2	200	1.5	1	84.000	6225460
LGBE 630 A2	300	1.5	1	97.000	6225462
LGBE 640 A2	400	1.5	1	109.900	6225464
LGBE 650 A2	500	1.5	1	122.900	6225466
LGBE 660 A2	600	1.5	1	135.900	6225468



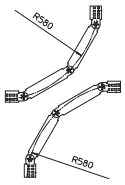


Adjustable bend element with welded rung for use in cable ladder types with a side height of 60 mm.

St FT

Articulated bend, vertical, VS 60

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBV 620 VS FT	200	1	270.000	6213324
LGBV 630 VS FT	300	1	301.000	6213332
LGBV 640 VS FT	400	1	332.000	6213340
LGBV 650 VS FT	500	1	363.000	6213359
LGBV 660 VS FT	600	1	394.000	6213367



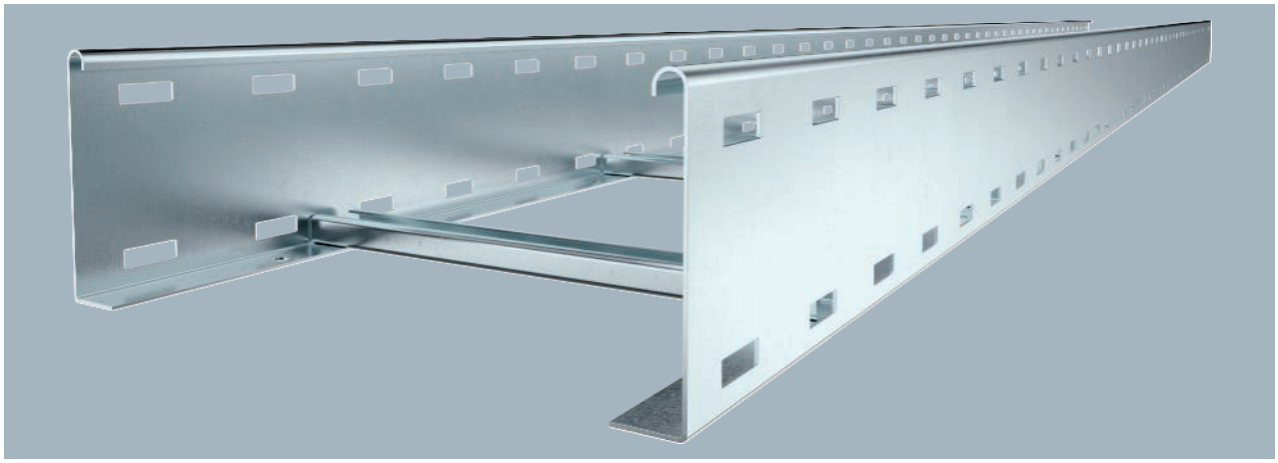


90° adjustable vertical bend, for cable ladders with medium-duty rung (VS) and a side height of 60 mm.
The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

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Cable ladder LG 110, 3 m VS

St FS



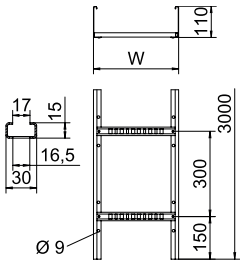
Type	Width mm		Pack m	Weight kg/100 m	Item no.
LG 112 VS 3 FS	200		3	396.600	**6216404**
LG 113 VS 3 FS	300		3	396.600	**6216407**
LG 114 VS 3 FS	400		3	422.267	**6216410**
LG 115 VS 3 FS	500		3	440.267	**6216413**
LG 116 VS 3 FS	600		3	462.000	**6216416**

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

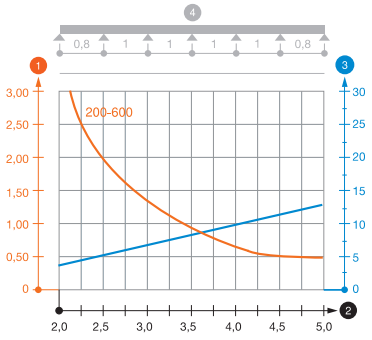
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm^2	Rung spacing mm
LG 112 VS 3 FS	3000	200	1.5	188	300
LG 113 VS 3 FS	3000	300	1.5	283	300
LG 114 VS 3 FS	3000	400	1.5	378	300
LG 115 VS 3 FS	3000	500	1.5	475	300
LG 116 VS 3 FS	3000	600	1.5	568	300

Dimensions



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 3 FS	3.1	1.4	0.65	0.5
LG 113 VS 3 FS	3.1	1.4	0.65	0.5
LG 114 VS 3 FS	3.1	1.4	0.65	0.5
LG 115 VS 3 FS	3.1	1.4	0.65	0.5
LG 116 VS 3 FS	3.1	1.4	0.65	0.5

Load



Load diagram, cable ladder, type LG 110 VS

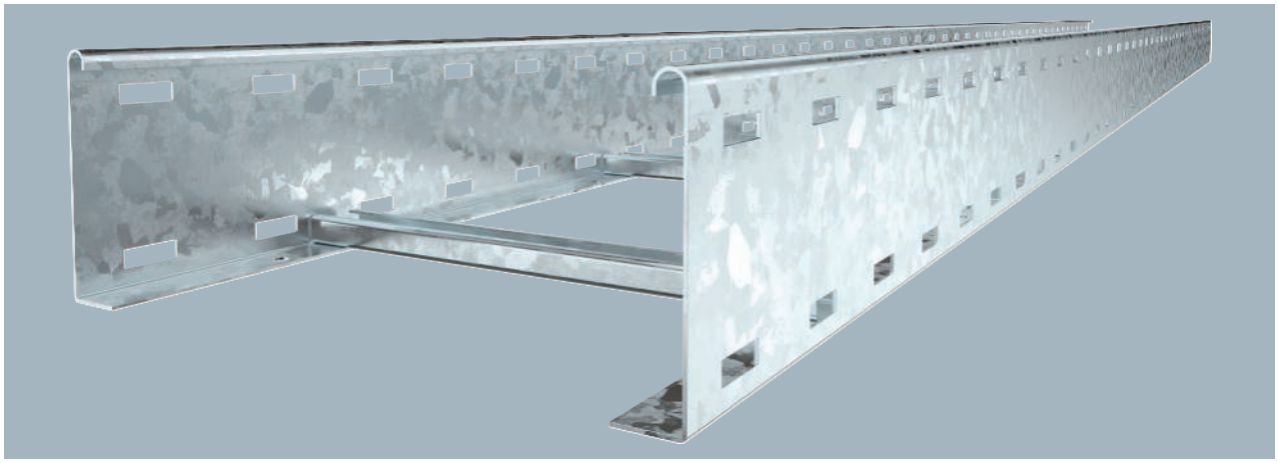
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FT

Cable ladder LG 110, 3 m VS

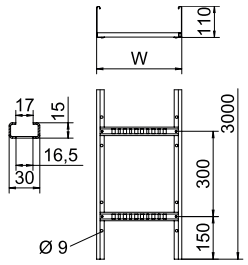


The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

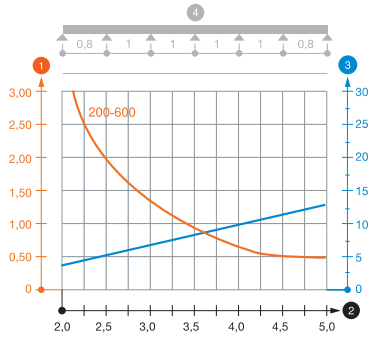
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 3 FT	200	3	400.000	**6216423**
LG 113 VS 3 FT	300	3	423.000	**6216426**
LG 114 VS 3 FT	400	3	446.000	**6216429**
LG 115 VS 3 FT	500	3	469.533	**6216432**
LG 116 VS 3 FT	600	3	500.000	**6216435**

Dimensions



Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 112 VS 3 FT	3000	200	1.5	188	300
LG 113 VS 3 FT	3000	300	1.5	283	300
LG 114 VS 3 FT	3000	400	1.5	378	300
LG 115 VS 3 FT	3000	500	1.5	475	300
LG 116 VS 3 FT	3000	600	1.5	568	300

Load



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 3 FT	3.1	1.4	0.65	0.5
LG 113 VS 3 FT	3.1	1.4	0.65	0.5
LG 114 VS 3 FT	3.1	1.4	0.65	0.5
LG 115 VS 3 FT	3.1	1.4	0.65	0.5
LG 116 VS 3 FT	3.1	1.4	0.65	0.5

Load diagram, cable ladder, type LG 110 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

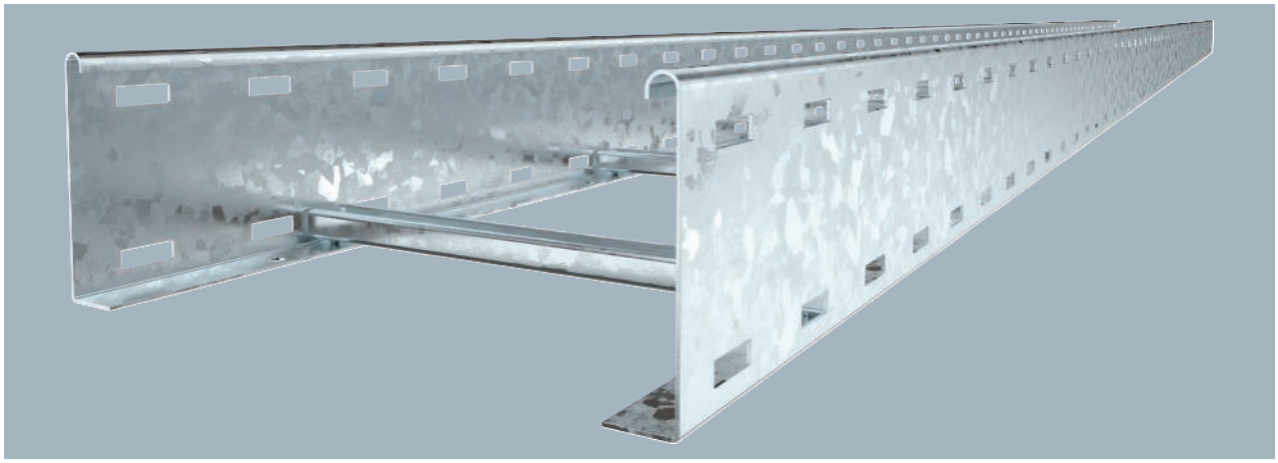
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable ladder LCIS 110, 6 m C30

St FT

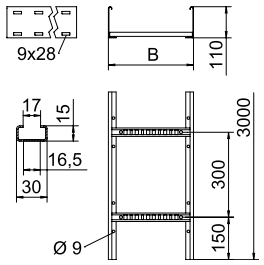


Type	Width mm	Pack m	Weight kg/100 m	Item no.
LCIS 1145 6 FT	450	6	459.534	**6209825**

Cable ladder with 110 mm side height with welded C30 profile rungs which are open in an upwards direction. Rolled side rail for reinforcement and as edge protection. Fastening to the bracket takes place using clamps, type LKS 40. The slot dimension of the frame is 16.5 mm and the appropriate clamp clip is type 2056.

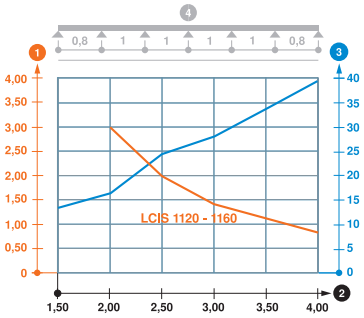
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LCIS 1145 6 FT	6000	450	1.5	405	300

Dimensions



	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m	4.0 m kN/m
LCIS 1145 6 FT	3	2	1.4	0.8

Load



Load diagram, cable ladder, type LCIS 110

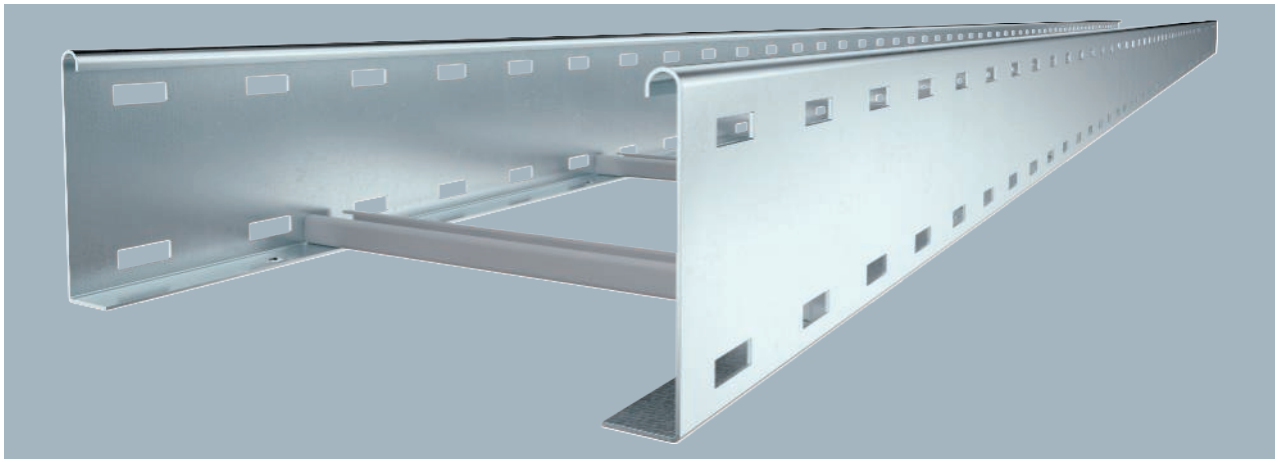
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

Cable ladder LG 110, 6 m VS

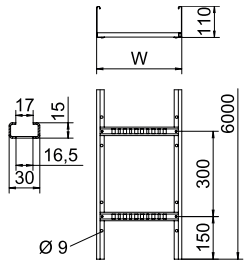


The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

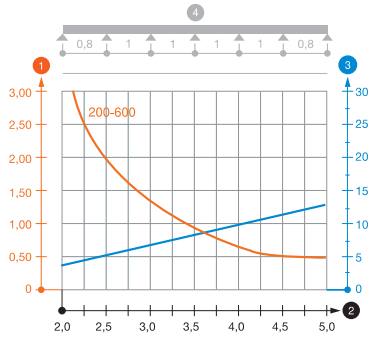
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 6 FS	200	6	374.966	**6216442**
LG 113 VS 6 FS	300	6	396.633	**6216445**
LG 114 VS 6 FS	400	6	422.300	**6216448**
LG 115 VS 6 FS	500	6	440.300	**6216451**
LG 116 VS 6 FS	600	6	461.967	**6216454**

Dimensions



Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 112 VS 6 FS	6000	200	1.5	188	300
LG 113 VS 6 FS	6000	300	1.5	283	300
LG 114 VS 6 FS	6000	400	1.5	378	300
LG 115 VS 6 FS	6000	500	1.5	475	300
LG 116 VS 6 FS	6000	600	1.5	568	300

Load



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 6 FS	3.1	1.4	0.65	0.5
LG 113 VS 6 FS	3.1	1.4	0.65	0.5
LG 114 VS 6 FS	3.1	1.4	0.65	0.5
LG 115 VS 6 FS	3.1	1.4	0.65	0.5
LG 116 VS 6 FS	3.1	1.4	0.65	0.5

Load diagram, cable ladder, type LG 110 VS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

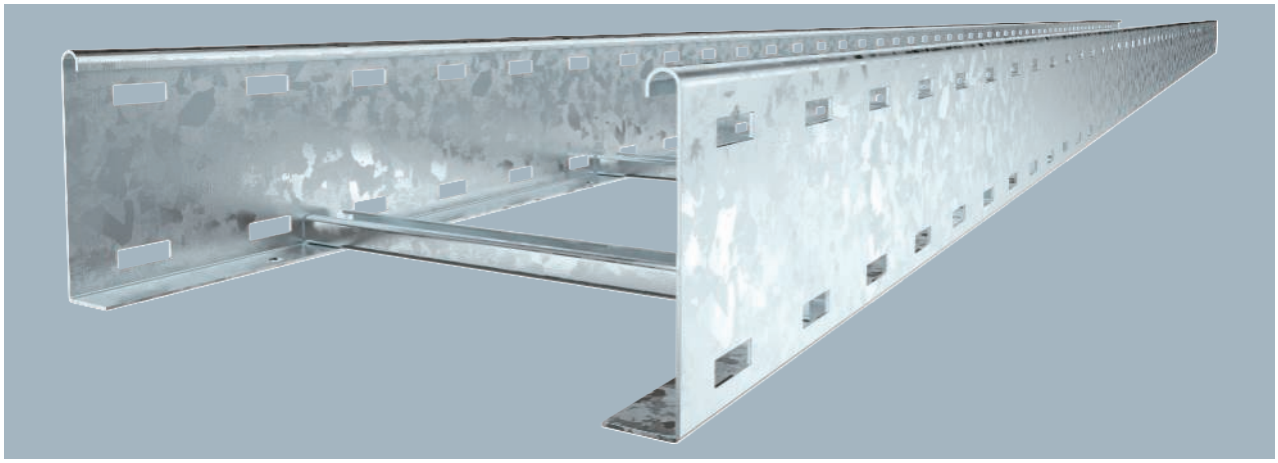
— Load curve with cable tray/ladder width in mm
— Strut bend curve according to support width

Always indicate the item number when ordering.

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Cable ladder LG 110, 6 m VS

St FT



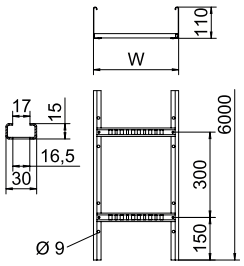
Type	Width mm	Pack m	Weight kg/100 m	Item no.
LG 112 VS 6 FT	200	6	399.867	**6216465**
LG 113 VS 6 FT	300	6	422.833	**6216468**
LG 115 VS 6 FT	500	6	469.533	**6216474**

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 110 mm with riveted C profile rungs, open in an upwards direction.

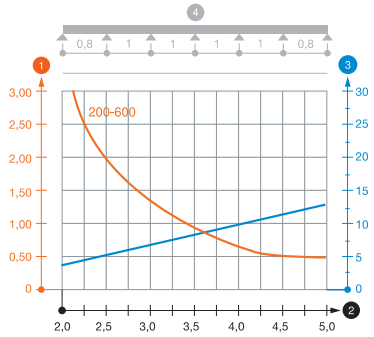
Type	Length mm	Dim. B mm	Rail thick-ness mm	Usable cross-section cm²	Rung spacing mm
LG 112 VS 6 FT	6000	200	1.5	188	300
LG 113 VS 6 FT	6000	300	1.5	283	300
LG 115 VS 6 FT	6000	500	1.5	475	300

Dimensions



	2.0 m kN/m	3.0 m kN/m	4.0 m kN/m	5.0 m kN/m
LG 112 VS 6 FT	3.1	1.4	0.65	0.5
LG 113 VS 6 FT	3.1	1.4	0.65	0.5
LG 115 VS 6 FT	3.1	1.4	0.65	0.5

Load



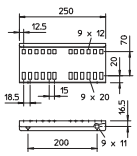
Load diagram, cable ladder, type LG 110 VS

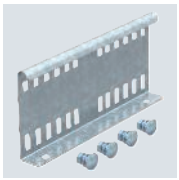
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

St FS FT

110 straight connector

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 110 FS	110	10	50.900	6216545
LVG 110 FT	110	10	53.700	6216548





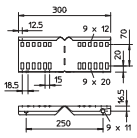
Straight connector as external connector to connect cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

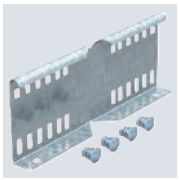
The bolt fastening ensures the continuity of the equipotential bonding.

St FS

Angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 110 FS	110	10	48.800	6216587





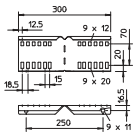
The bolt fastening ensures the continuity of the equipotential bonding.

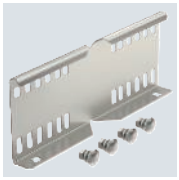
Angle connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

A2 2B

Angle connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 110 A2	110	10	48.800	6216590





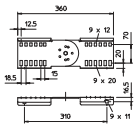
The bolt fastening ensures the continuity of the equipotential bonding.

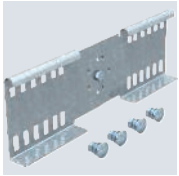
Angle connector as external connector to join cable ladders and fittings with a side height of 110 mm and continuous rail perforation.

St FS FT

Adjustable connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 110 FS	110	10	77.900	6216650
LGVG 110 FT	110	10	82.100	6216653





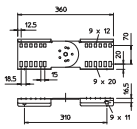
Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

The bolt fastening ensures the continuity of the equipotential bonding.

A2 2B

Articulated connector 110

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 110 A2	110	10	77.400	6216648





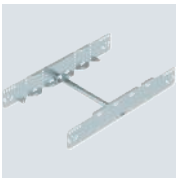
Adjustable connector as internal connector to join cable ladders and fittings with a side height of 110 mm. Angle can be adjusted vertically.

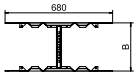
The bolt fastening ensures the continuity of the equipotential bonding.

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Multifunctional connector 110

St FS FT





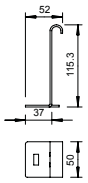
Type	Dim. B mm	Side height mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LMFV 1120 FS	200	110	1.50	1	208.100	**6225750**
LMFV 1130 FS	300	110	1.50	1	214.600	**6225752**
LMFV 1140 FS	400	110	1.50	1	221.100	**6225754**
LMFV 1150 FS	500	110	1.50	1	227.600	**6225756**
LMFV 1160 FS	600	110	1.50	1	234.000	**6225758**
LMFV 1120 FT	200	110	1.50	1	221.300	**6225770**
LMFV 1130 FT	300	110	1.50	1	228.200	**6225772**
LMFV 1140 FT	400	110	1.50	1	235.100	**6225774**
LMFV 1145 FT	450	110	1.50	1	238.500	**6225776**
LMFV 1150 FT	500	110	1.50	1	241.900	**6225778**
LMFV 1160 FT	600	110	1.50	1	248.800	**6225780**

Multifunctional connector for joining cable ladders with a side height of 110 mm. Symmetrical and asymmetrical reductions, infinitely-adjustable bends between 0–60° and add-on tees can be created.

Connector 110

St FS FT





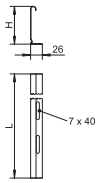
Type	Pack Piece	Weight kg/100 pc.	Item no.
LAS 110 FS	10	17.900	**6221416**
LAS 110 FT	10	18.700	**6221424**

Connector for creation of branches at the same height at a later date.
To increase the cable supporting surface, use a conjunction of corner plates of type LEB.

Separating retainer 85

St FS DD





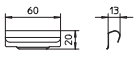
Type	Dim. H mm	Metal thick-ness mm	Dim. L mm	Pack m	Weight kg/100 m	Item no.
TSG 85 FS	85	0.75	3000	3	70.233	**6062114**
TSG 85 DD	85	0.75	3000	3	70.300	**6062331**

Separating retainer for separation of cables of different voltages or functions.

Separating retainer connector

VA 2B





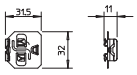
Type	Pack Piece	Weight kg/100 pc.	Item no.
TSGV A2	10	0.899	**6067970**

Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Hold-down clamp for separating retainer fastening

VA 2B





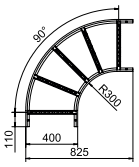
Type	Pack Piece	Weight kg/100 pc.	Item no.
KS KL A2	30	0.512	**6062284**

Hold-down clamp for screwless fastening of the separating retainer in cable ladders.

St FS FT

90° bend 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LB 90 1120 R3 FS	200	1.5	1	355.300	**6225122**
LB 90 1130 R3 FS	300	1.5	1	428.300	**6225124**
LB 90 1140 R3 FS	400	1.5	1	488.000	**6225126**
LB 90 1150 R3 FS	500	1.5	1	580.400	**6225128**
LB 90 1160 R3 FS	600	1.5	1	646.500	**6225130**
LB 90 1120 R3 FT	200	1.5	1	379.700	**6225142**
LB 90 1130 R3 FT	300	1.5	1	457.900	**6225144**
LB 90 1140 R3 FT	400	1.5	1	521.400	**6225146**
LB 90 1145 R3 FT	450	1.5	1	555.800	**6225148**
LB 90 1150 R3 FT	500	1.5	1	619.600	**6225150**
LB 90 1160 R3 FT	600	1.5	1	688.700	**6225152**



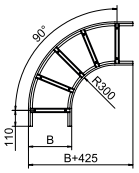


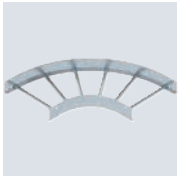
90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

90° bend 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 1120R3 FT	200	2	1	493.100	**6225172**
SLB 90 1130R3 FT	300	2	1	593.200	**6225174**
SLB 90 1140R3 FT	400	2	1	678.300	**6225176**
SLB 90 1150R3 FT	500	2	1	809.600	**6225180**
SLB 90 1160R3 FT	600	2	1	919.200	**6225182**



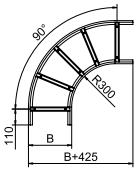


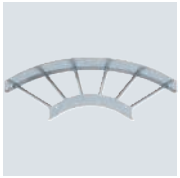
90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

90° bend 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 1145R3 FT	450	2	1	720.700	**6225178**
SLB 90 1175R3 FT	750	2	1	1,116.100	**6225184**
SLB 90 1180R3 FT	800	2	1	1,167.900	**6225186**
SLB 90 1190R3 FT	900	2	1	1,356.500	**6225188**
SLB90 11100R3 FT	1000	2	1	1,470.000	**6225190**
SLB90 11120R3 FT	1200	2	1	1,856.200	**6225194**





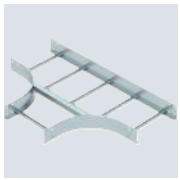
90° bend, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

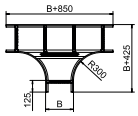
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Always indicate the item number when ordering.

T piece 110

St FS FT



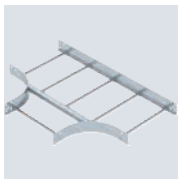


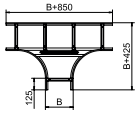
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LT 1120 R3 FS	200	1.5	1	611.800	**6225290**
LT 1130 R3 FS	300	1.5	1	680.000	**6225292**
LT 1140 R3 FS	400	1.5	1	774.500	**6225294**
LT 1150 R3 FS	500	1.5	1	849.300	**6225296**
LT 1160 R3 FS	600	1.5	1	924.000	**6225298**
LT 1120 R3 FT	200	1.5	1	651.500	**6225310**
LT 1130 R3 FT	300	1.5	1	781.100	**6225312**
LT 1140 R3 FT	400	1.5	1	882.600	**6225314**
LT 1145 R3 FT	450	1.5	1	926.800	**6225316**
LT 1150 R3 FT	500	1.5	1	963.100	**6225318**
LT 1160 R3 FT	600	1.5	1	982.900	**6225320**

T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

T piece 110

St FT



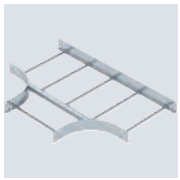


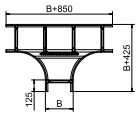
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLT 1120 R3 FT	200	2	1	807.400	**6225350**
SLT 1130 R3 FT	300	2	1	969.800	**6225352**
SLT 1140 R3 FT	400	2	1	1,099.200	**6225354**
SLT 1150 R3 FT	500	2	1	1,200.500	**6225358**
SLT 1160 R3 FT	600	2	1	1,251.100	**6225360**

T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

T piece 110

St FT





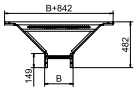
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLT 1145 R3 FT	450	2	1	1,150.300	**6225356**
SLT 1175 R3 FT	750	2	1	1,524.900	**6225362**
SLT 1180 R3 FT	800	2	1	1,579.500	**6225364**
SLT 1190 R3 FT	900	2	1	1,690.600	**6225366**
SLT 11100 R3 FT	1000	2	1	1,801.700	**6225368**
SLT 11120 R3 FT	1200	2	1	2,092.200	**6225372**

T piece, horizontal, with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FS FT

Add-on tee 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAA 1120 R3 FS	200	1.5	1	389.000	6225910
LAA 1130 R3 FS	300	1.5	1	411.000	6225912
LAA 1140 R3 FS	400	1.5	1	434.000	6225914
LAA 1150 R3 FS	500	1.5	1	457.000	6225916
LAA 1160 R3 FS	600	1.5	1	480.000	6225918
LAA 1120 R3 FT	200	1.5	1	401.000	6225930
LAA 1130 R3 FT	300	1.5	1	426.000	6225932
LAA 1140 R3 FT	400	1.5	1	449.000	6225934
LAA 1145 R3 FT	450	1.5	1	461.000	6225936
LAA 1150 R3 FT	500	1.5	1	472.000	6225938
LAA 1160 R3 FT	600	1.5	1	497.000	6225940



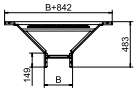


Add-on tee with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

Add-on tee 110

Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLAA 1120 R3 FT	200	2	1	524.000	6225950
SLAA 1130 R3 FT	300	2	1	545.000	6225952
SLAA 1140 R3 FT	400	2	1	587.000	6225954
SLAA 1150 R3 FT	500	2	1	617.000	6225958
SLAA 1160 R3 FT	600	2	1	649.000	6225960
SLAA 1145 R3 FT	450	2	1	602.000	6225956
SLAA 1175 R3 FT	750	2	1	696.000	6225962
SLAA 1180 R3 FT	800	2	1	711.000	6225964
SLAA 1190 R3 FT	900	2	1	743.000	6225966
SLAA 11100 R3 FT	1000	2	1	774.000	6225968
SLAA 11120 R3 FT	1200	2	1	837.000	6225970



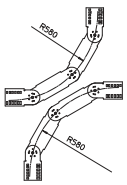


Add-on tee with welded rung for all cable ladder types of 110 mm side height.
Connectors should be ordered separately and in the appropriate quantity.

St FT

Adjustable bend, vertical 110

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBV 112 VS FT	200	1	426.000	6218938
LGBV 113 VS FT	300	1	457.000	6218946
LGBV 114 VS FT	400	1	488.000	6218954
LGBV 115 VS FT	500	1	519.000	6218962
LGBV 116 VS FT	600	1	540.000	6218970



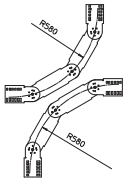


90° adjustable vertical bend, for all cable ladder types with a side height of 110 mm.
The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

St FS

Adjustable bend, vertical 110

Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBV 116 VS FS	600	1	519.000	6218865





90° adjustable vertical bend, for all cable ladder types with a side height of 110 mm.
The fitting is shipped in an unmounted state including adjustable connectors and the appropriate bolts.

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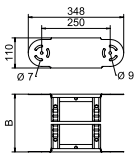
Always indicate the item number when ordering.

LG cable ladder system, side height 110

Adjustable bend element 110

St FS FT





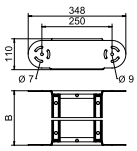
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBE 1120 FS	200	1.5	1	128.000	**6225490**
LGBE 1130 FS	300	1.5	1	142.100	**6225492**
LGBE 1140 FS	400	1.5	1	155.300	**6225494**
LGBE 1150 FS	500	1.5	1	168.600	**6225496**
LGBE 1160 FS	600	1.5	1	181.800	**6225498**
LGBE 1120 FT	200	1.5	1	136.900	**6225510**
LGBE 1130 FT	300	1.5	1	150.900	**6225512**
LGBE 1140 FT	400	1.5	1	165.100	**6225514**
LGBE 1145 FT	450	1.5	1	173.100	**6225516**
LGBE 1150 FT	500	1.5	1	179.300	**6225518**
LGBE 1160 FT	600	1.5	1	193.300	**6225520**

Adjustable bend element with welded rung for use in the cable ladder types with a side height of 110 mm.

Adjustable bend element 110

St FT





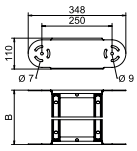
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLGBE 1120 FT	200	2	1	172.800	**6225530**
SLGBE 1130 FT	300	2	1	191.800	**6225532**
SLGBE 1140 FT	400	2	1	210.800	**6225534**
SLGBE 1150 FT	500	2	1	229.600	**6225538**
SLGBE 1160 FT	600	2	1	248.600	**6225540**

Adjustable bend element, heavy-duty, with welded rung for use in the cable ladder types with a side height of 110 mm.

Adjustable bend element 110

St FT





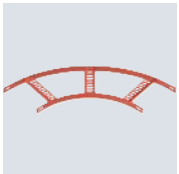
Type	Dim. B mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLGBE 1145 FT	450	2	1	220.200	**6225536**
SLGBE 1175 FT	750	2	1	277.000	**6225542**
SLGBE 1180 FT	800	2	1	286.400	**6225544**
SLGBE 1190 FT	900	2	1	305.400	**6225546**
SLGBE 11100 FT	1000	2	1	324.400	**6225548**
SLGBE 11120 FT	1200	2	1	362.200	**6225550**

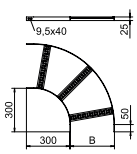
Adjustable bend element, heavy-duty, with welded rung for use in the cable ladder types with a side height of 110 mm.

Cable ladder systems SL 42

90° bend with trapezoidal rung, 25

St SG





Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 42 075 SG	75	3	1	70.600	**7098500**

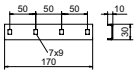
Connectors should be ordered separately and in the appropriate quantity.

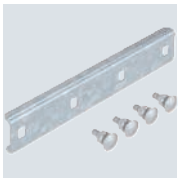
90° bend for shipbuilding cable ladder, type SL 42, with side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

Alu

Connector 25

Type		Pack Piece	Weight kg/100 pc.	Item no.
SLV 42 ALU		20	4.951	**7103552**



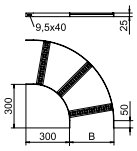


Straight connector to connect cable ladders and fittings with a side height of 25 mm.

St FT

90° bend with trapezoidal rung, 25

Type	Width mm	Rail thick-ness mm		Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 42 075 FT	75	3		1	73.800	**7098614**





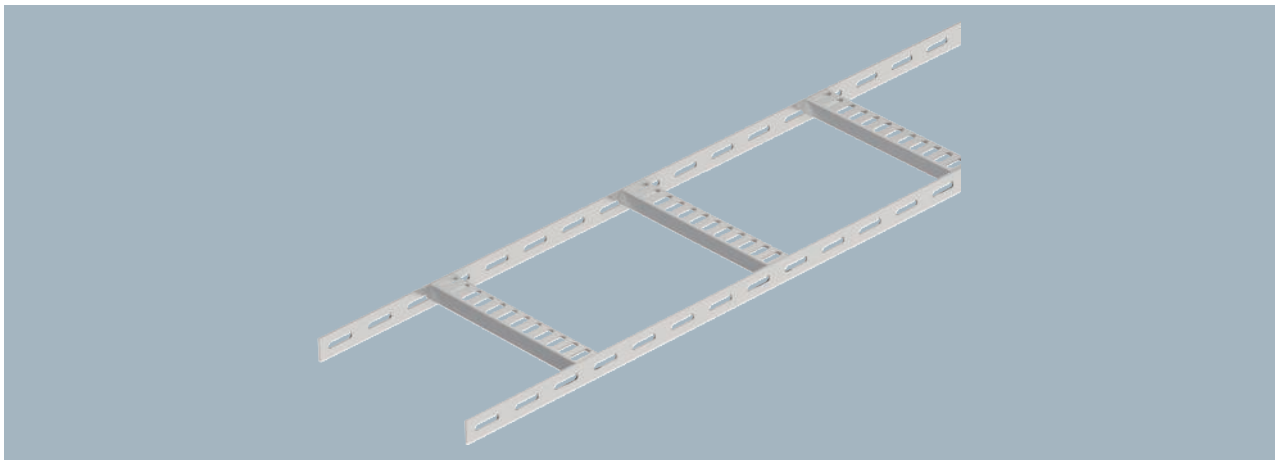
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

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Cable ladder with trapezoidal rung, 25

A2 2B

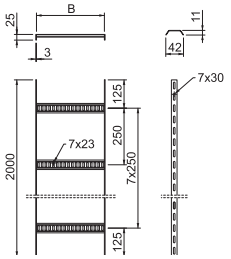


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 42 075 A2	75	2	109.000	**7097080**
SL 42 100 A2	100	2	112.500	**7097082**
SL 42 150 A2	150	2	119.000	**7097084**
SL 42 200 A2	200	2	125.500	**7097086**
SL 42 250 A2	250	2	132.000	**7097088**
SL 42 300 A2	300	2	139.000	**7097090**

Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

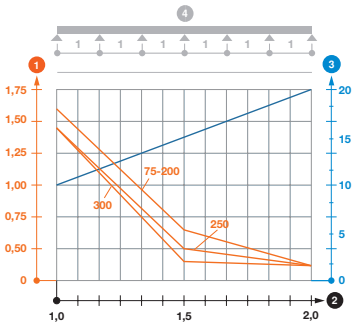
Type	Length mm	Dim. B mm	Side height mm	Rail thick-ness mm
SL 42 075 A2	2000	81	25	3
SL 42 100 A2	2000	106	25	3
SL 42 150 A2	2000	156	25	3
SL 42 200 A2	2000	206	25	3
SL 42 250 A2	2000	256	25	3
SL 42 300 A2	2000	306	25	3

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
SL 42 075 A2	1.6	0.65	0.25
SL 42 100 A2	1.6	0.65	0.25
SL 42 150 A2	1.6	0.65	0.25
SL 42 200 A2	1.6	0.65	0.25
SL 42 250 A2	1.45	0.65	0.25
SL 42 300 A2	1.45	0.65	0.25

Load

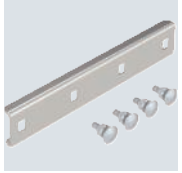


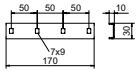
Load diagram, SL42 cable ladder

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

Connector 25

Alu





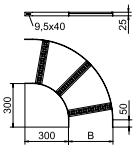
Type	Pack Piece	Weight kg/100 pc.	Item no.
SLV 42 ALU	20	4.951	**7103552**

Straight connector to connect cable ladders and fittings with a side height of 25 mm.

A2 2B

90° bend with trapezoidal rung, 25

Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 42 075 A2	75	3	1	71.600	**7098654**
SLB 90 42 100 A2	100	3	1	76.400	**7098656**
SLB 90 42 150 A2	150	3	1	85.800	**7098658**
SLB 90 42 200 A2	200	3	1	95.400	**7098660**
SLB 90 42 250 A2	250	3	1	105.000	**7098662**
SLB 90 42 300 A2	300	3	1	114.300	**7098664**





Connectors should be ordered separately and in the appropriate quantity.

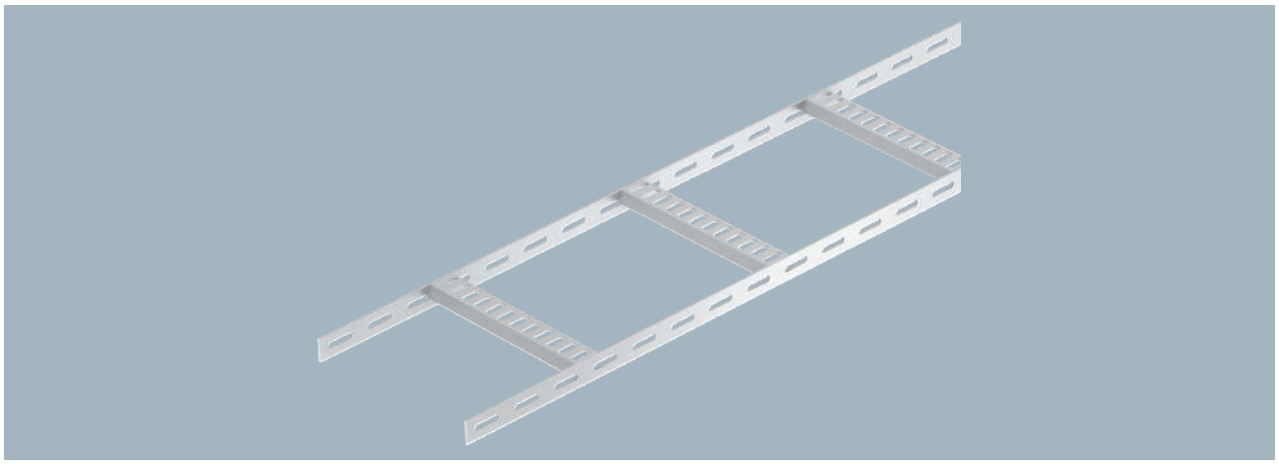
90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

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Always indicate the item number when ordering.

Cable ladder with trapezoidal rung, 25

Alu GB

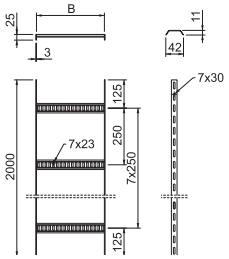


Type	Width mm		Pack m	Weight kg/100 m	Item no.
SL 42 075 ALU	75		2	41.000	**7099722**
SL 42 100 ALU	100		2	43.000	**7099724**
SL 42 150 ALU	150		2	47.500	**7099726**
SL 42 200 ALU	200		2	52.500	**7099728**
SL 42 250 ALU	250		2	57.000	**7099730**
SL 42 300 ALU	300		2	61.500	**7099732**

Shipbuilding cable ladder with perforated side rail of side height 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

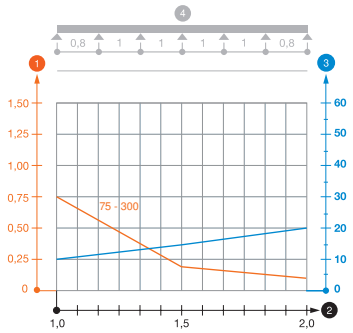
Type	Length mm	Dim. B mm	Side height mm	Rail thick-ness mm
SL 42 075 ALU	2000	81	25	3
SL 42 100 ALU	2000	106	25	3
SL 42 150 ALU	2000	156	25	3
SL 42 200 ALU	2000	206	25	3
SL 42 250 ALU	2000	256	25	3
SL 42 300 ALU	2000	306	25	3

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m
SL 42 075 ALU	0.75	0.2	0.1
SL 42 100 ALU	0.75	0.2	0.1
SL 42 150 ALU	0.75	0.2	0.1
SL 42 200 ALU	0.75	0.2	0.1
SL 42 250 ALU	0.75	0.2	0.1
SL 42 300 ALU	0.75	0.2	0.1

Load



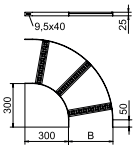
Load diagram, SL42 cable ladder

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

Alu GB

90° bend with trapezoidal rung, 25

Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 42 075ALU	75	3	1	27.000	**7098684**
SLB 90 42 100ALU	100	3	1	29.500	**7098686**
SLB 90 42 150ALU	150	3	1	34.500	**7098688**
SLB 90 42 200ALU	200	3	1	39.500	**7098690**
SLB 90 42 250ALU	250	3	1	44.500	**7098692**
SLB 90 42 300ALU	300	3	1	49.500	**7098694**





Connectors should be ordered separately and in the appropriate quantity.

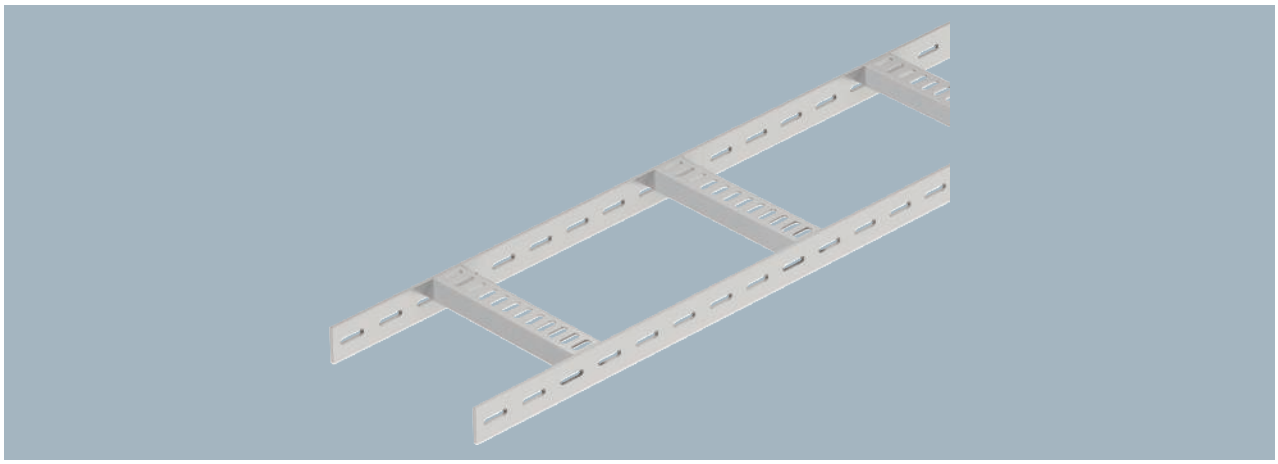
90° bend for shipbuilding cable ladders, type SL 42, with a side height of 25 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

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Always indicate the item number when ordering.

Cable ladder with trapezoidal rung, 40

A2 2B

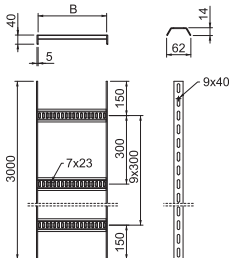


Type	Width mm		Pack m	Weight kg/100 m	Item no.
SL 62 100 A2	100		3	299.000	**7097094**
SL 62 200 A2	200		3	332.334	**7097096**
SL 62 300 A2	300		3	365.334	**7097098**
SL 62 400 A2	400		3	398.667	**7097100**
SL 62 500 A2	500		3	432.000	**7097102**
SL 62 600 A2	600		3	465.334	**7097104**

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction. Load tested according to IEC in conjunction with connector, type SLV.

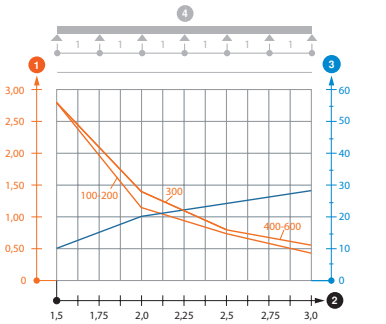
Type	Length mm	Dim. B mm	Side height mm	Rail thick-ness mm
SL 62 100 A2	3000	110	40	5
SL 62 200 A2	3000	210	40	5
SL 62 300 A2	3000	310	40	5
SL 62 400 A2	3000	410	40	5
SL 62 500 A2	3000	510	40	5
SL 62 600 A2	3000	610	40	5

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SL 62 100 A2	2.8	1.2	0.8	0.45
SL 62 200 A2	2.8	1.2	0.8	0.45
SL 62 300 A2	2.8	1.2	0.8	0.45
SL 62 400 A2	2.8	1.4	0.8	0.55
SL 62 500 A2	2.8	1.4	0.8	0.55
SL 62 600 A2	2.8	1.4	0.8	0.55

Load



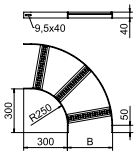
Load diagram, cable ladder SL62

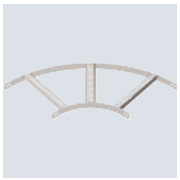
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

A2 2B

90° bend with trapezoidal rung, 40

Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 62 100 A2	100	5	1	206.800	**7099150**
SLB 90 62 200 A2	200	5	1	261.700	**7099152**
SLB 90 62 300 A2	300	5	1	316.700	**7099154**
SLB 90 62 400 A2	400	5	1	371.600	**7099156**
SLB 90 62 500 A2	500	5	1	426.500	**7099158**
SLB 90 62 600 A2	600	5	1	481.400	**7099160**





Connectors should be ordered separately and in the appropriate quantity.

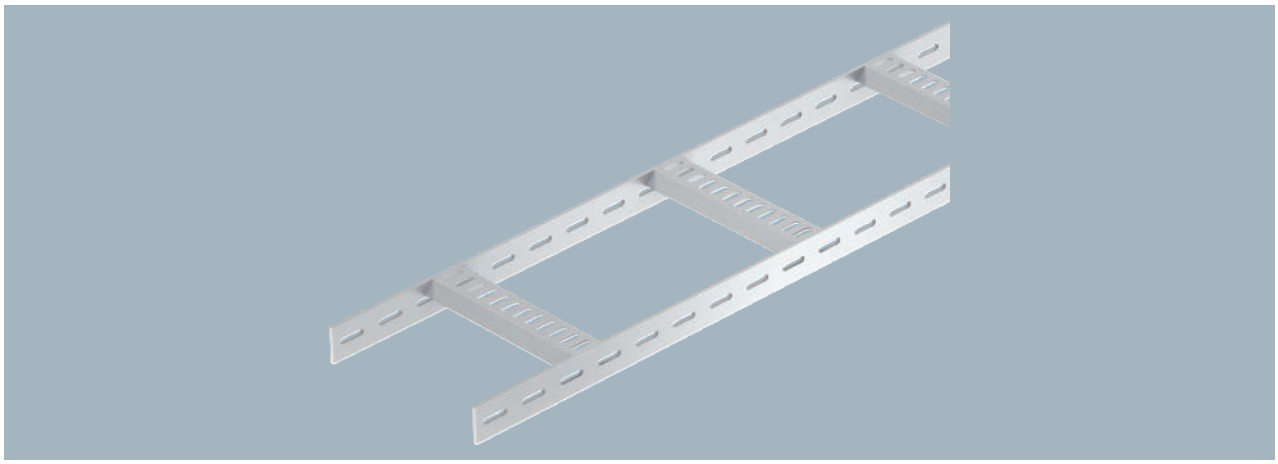
90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

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Always indicate the item number when ordering.

Cable ladder with trapezoidal rung, 40

Alu GB

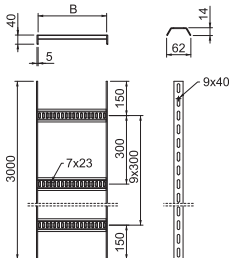


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SL 62 100 ALU	100	3	99.800	**7099752**
SL 62 200 ALU	200	3	111.067	**7099754**
SL 62 300 ALU	300	3	122.300	**7099756**
SL 62 400 ALU	400	3	133.567	**7099758**
SL 62 500 ALU	500	3	144.833	**7099760**
SL 62 600 ALU	600	3	156.100	**7099762**

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

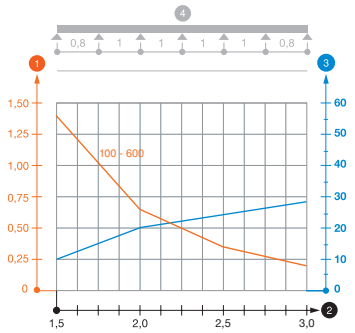
Type	Length mm	Dim. B mm	Side height mm	Rail thick-ness mm
SL 62 100 ALU	3000	110	40	5
SL 62 200 ALU	3000	210	40	5
SL 62 300 ALU	3000	310	40	5
SL 62 400 ALU	3000	410	40	5
SL 62 500 ALU	3000	510	40	5
SL 62 600 ALU	3000	610	40	5

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SL 62 100 ALU	1.4	0.65	0.35	0.2
SL 62 200 ALU	1.4	0.65	0.35	0.2
SL 62 300 ALU	1.4	0.65	0.35	0.2
SL 62 400 ALU	1.4	0.65	0.35	0.2
SL 62 500 ALU	1.4	0.65	0.35	0.2
SL 62 600 ALU	1.4	0.65	0.35	0.2

Load



Load diagram, SL 62 cable ladder

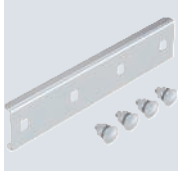
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

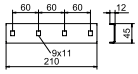
— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

Connector 40

Alu





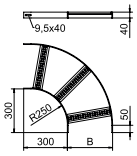
Type	Pack Piece	Weight kg/100 pc.	Item no.
SLV 62 ALU	10	7.000	**7103586**

Straight connector to connect cable ladders and fittings with a side height of 40 mm.

Alu GB

90° bend with trapezoidal rung, 40

Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLB 90 62 100ALU	100	5	1	69.600	**7099186**
SLB 90 62 200ALU	200	5	1	88.100	**7099188**
SLB 90 62 300ALU	300	5	1	106.600	**7099190**
SLB 90 62 400ALU	400	5	1	125.100	**7099192**
SLB 90 62 500ALU	500	5	1	143.600	**7099194**
SLB 90 62 600ALU	600	5	1	162.100	**7099196**





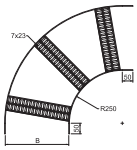
Connectors should be ordered separately and in the appropriate quantity.

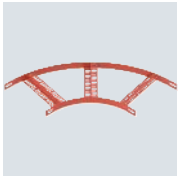
90° bend for shipbuilding cable ladders, type SL 62, with side height of 40 mm with welded, perforated trapezoidal rungs which open in a downwards direction.

St SG

90° bend with Z rung, 35

Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB L 90 100 SG	100	3	1	111.000	**7099201**
SLZB L 90 200 SG	200	3	1	143.000	**7099203**
SLZB L 90 300 SG	300	3	1	174.000	**7099205**
SLZB L 90 400 SG	400	3	1	206.000	**7099208**
SLZB L 90 500 SG	500	3	1	237.000	**7099210**
SLZB L 90 600 SG	600	3	1	269.000	**7099212**





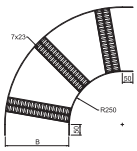
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

St FT

90° bend with Z rung, 35

Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB L 90 100 FT	100	3	1	119.400	**7099221**
SLZB L 90 200 FT	200	3	1	153.300	**7099224**
SLZB L 90 300 FT	300	3	1	187.200	**7099226**
SLZB L 90 400 FT	400	3	1	221.000	**7099228**
SLZB L 90 500 FT	500	3	1	254.900	**7099230**
SLZB L 90 600 FT	600	3	1	288.800	**7099232**





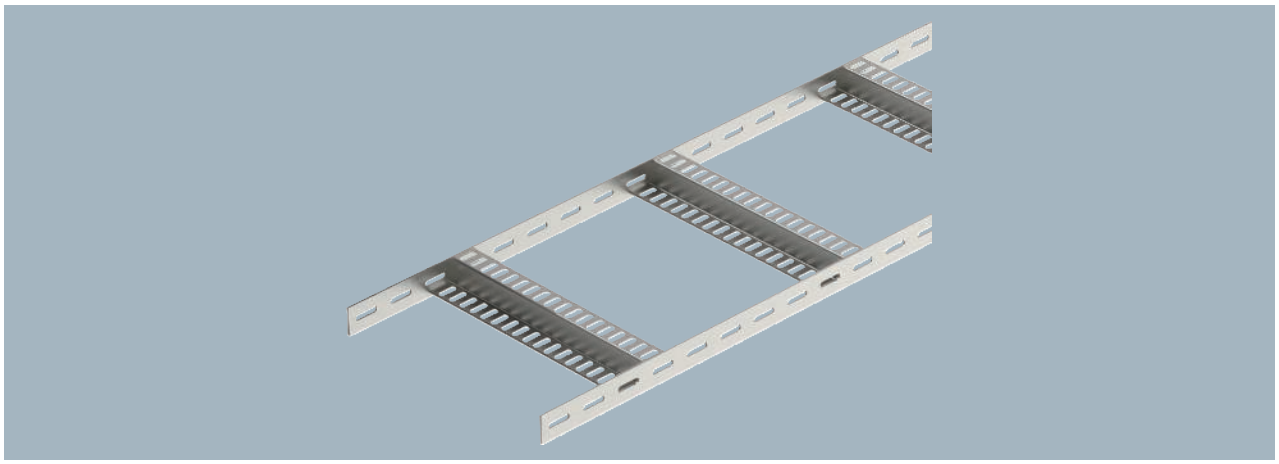
Connectors should be ordered separately and in the appropriate quantity.

90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

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Cable ladder with Z rung, 35

A2 2B

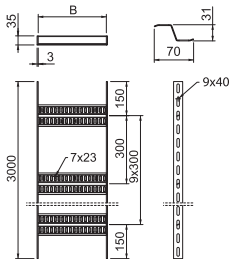


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ L 100 A2	100	3	167.000	**7098062**
SLZ L 200 A2	200	3	187.667	**7098066**
SLZ L 300 A2	300	3	208.667	**7098068**
SLZ L 400 A2	400	3	229.167	**7098070**
SLZ L 500 A2	500	3	250.000	**7098072**
SLZ L 600 A2	600	3	270.667	**7098074**

Light-duty shipbuilding cable ladder with perforated side rail of side height 35 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

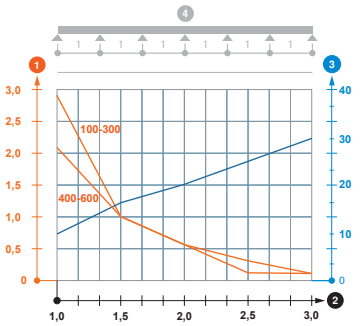
Type	Length mm	Dim. B mm	Side height mm	Rail thick-ness mm
SLZ L 100 A2	3000	106	35	3
SLZ L 200 A2	3000	206	35	3
SLZ L 300 A2	3000	306	35	3
SLZ L 400 A2	3000	406	35	3
SLZ L 500 A2	3000	506	35	3
SLZ L 600 A2	3000	606	35	3

Dimensions



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SLZ L 100 A2	2.8	1	0.55	0.35	0.25
SLZ L 200 A2	2.8	1	0.55	0.35	0.25
SLZ L 300 A2	2.8	1	0.55	0.35	0.25
SLZ L 400 A2	2.2	1	0.55	0.25	0.25
SLZ L 500 A2	2.2	1	0.55	0.25	0.25
SLZ L 600 A2	2.2	1	0.55	0.25	0.25

Load



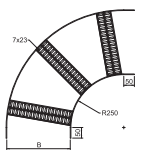
Load diagram, SLZ L cable ladder

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

90° bend, 35

A2 2B





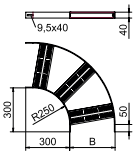
Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB L 90 100 A2	100	3	1	113.000	**7099241**
SLZB L 90 200 A2	200	3	1	145.000	**7099243**
SLZB L 90 300 A2	300	3	1	176.000	**7099245**
SLZB L 90 400 A2	400	3	1	208.000	**7099247**
SLZB L 90 500 A2	500	3	1	240.000	**7099249**
SLZB L 90 600 A2	600	3	1	272.000	**7099251**

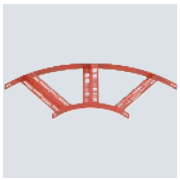
Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ L, with side height of 35 mm with welded, perforated Z rungs.

St SG

90° bend with Z rung, 40

Type	Width mm	Rail thick-ness mm		Pack Piece	Weight kg/100 pc.	Item no.
SLZB 90 100 SG	100	5		1	222.200	**7098976**
SLZB 90 200 SG	200	5		1	295.100	**7098978**
SLZB 90 300 SG	300	5		1	338.600	**7098980**
SLZB 90 400 SG	400	5		1	441.300	**7098982**
SLZB 90 500 SG	500	5		1	514.000	**7098984**
SLZB 90 600 SG	600	5		1	586.600	**7098986**





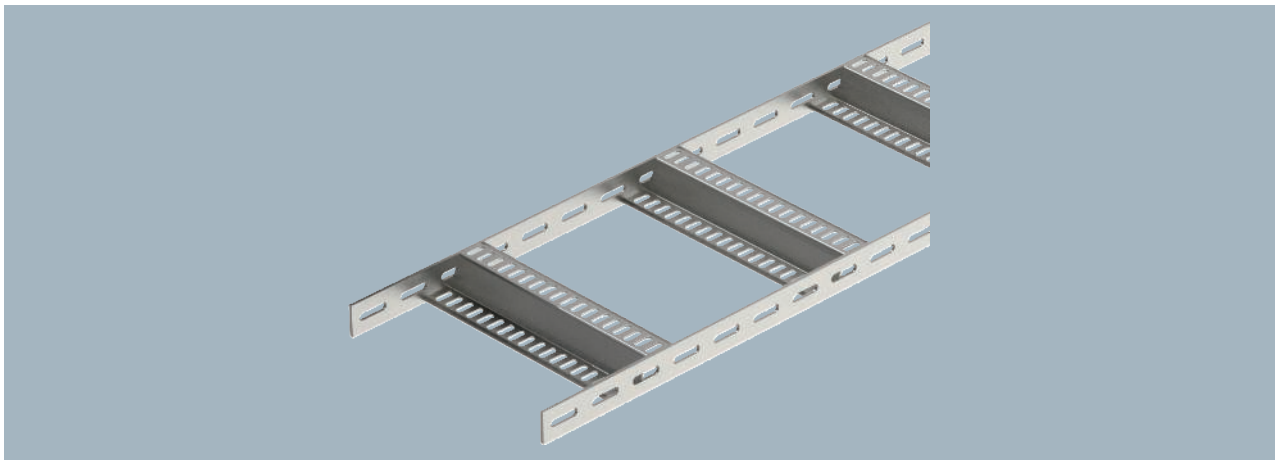
Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.

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Always indicate the item number when ordering.

Cable ladder with Z rung, 40

A2 2B

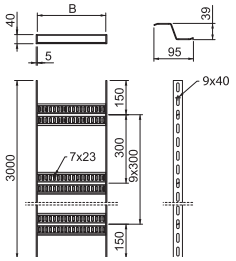


Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ 100 A2	100	3	319.000	**7098192**
SLZ 200 A2	200	3	372.400	**7098194**
SLZ 300 A2	300	3	425.670	**7098196**
SLZ 400 A2	400	3	479.000	**7098198**
SLZ 500 A2	500	3	532.340	**7098200**
SLZ 600 A2	600	3	585.670	**7098202**

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs. Load tested according to IEC in conjunction with connector, type SLV.

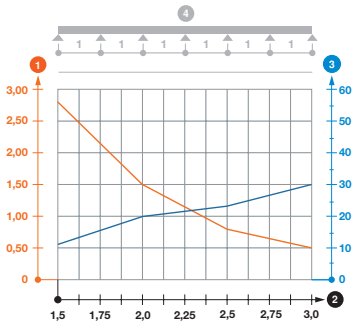
Type	Length mm	Dim. B mm	Side height mm	Rail thick-ness mm
SLZ 100 A2	3000	110	40	5
SLZ 200 A2	3000	210	40	5
SLZ 300 A2	3000	310	40	5
SLZ 400 A2	3000	410	40	5
SLZ 500 A2	3000	510	40	5
SLZ 600 A2	3000	610	40	5

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SLZ 100 A2	2.8	1.5	0.8	0.5
SLZ 200 A2	2.8	1.5	0.8	0.5
SLZ 300 A2	2.8	1.5	0.8	0.5
SLZ 400 A2	2.8	1.5	0.8	0.5
SLZ 500 A2	2.8	1.5	0.8	0.5
SLZ 600 A2	2.8	1.5	0.8	0.5

Load



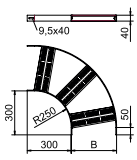
Load diagram, cable ladder SLZ

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width
4. Load scheme during testing

90° bend with Z rung, 40

A2 2B





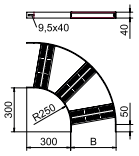
Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB 90 100 A2	100	5	1	225.100	**7099030**
SLZB 90 200 A2	200	5	1	298.300	**7099032**
SLZB 90 300 A2	300	5	1	371.500	**7099034**
SLZB 90 400 A2	400	5	1	444.600	**7099036**
SLZB 90 500 A2	500	5	1	517.700	**7099038**
SLZB 90 600 A2	600	5	1	590.900	**7099040**

Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.

Alu GB

90° bend with Z rung, 40

Type	Width mm	Rail thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
SLZB 90 100 ALU	100	5	1	75.800	**7099090**
SLZB 90 200 ALU	200	5	1	100.400	**7099092**
SLZB 90 300 ALU	300	5	1	125.100	**7099094**
SLZB 90 400 ALU	400	5	1	149.700	**7099096**
SLZB 90 500 ALU	500	5	1	174.300	**7099098**
SLZB 90 600 ALU	600	5	1	198.900	**7099100**





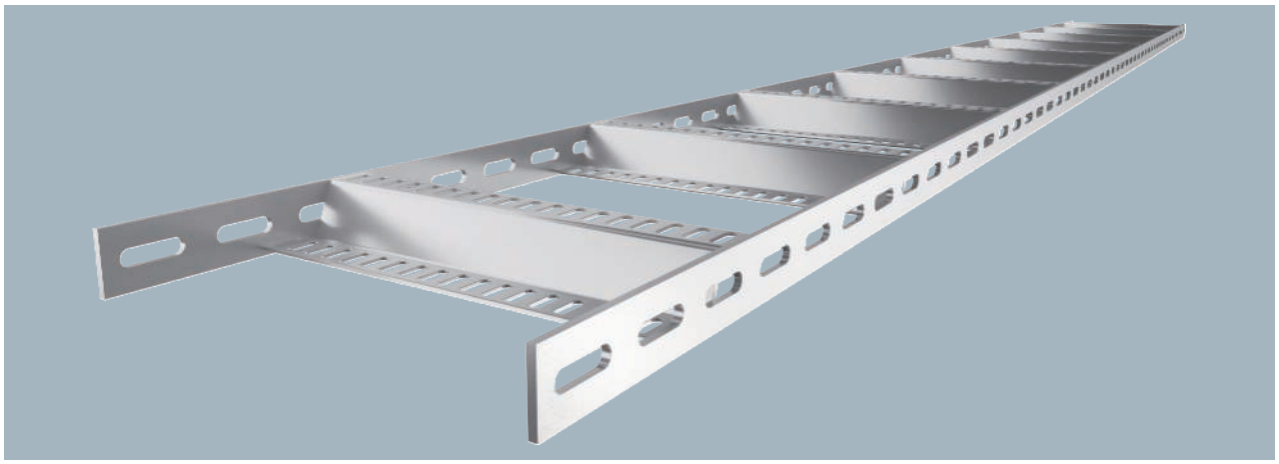
Connectors should be ordered separately and in the appropriate quantity.
90° bend for shipbuilding cable ladders, type SLZ, with side height of 40 mm with welded, perforated Z rungs.

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Always indicate the item number when ordering.

Cable ladder with Z rung, 40

Alu GB



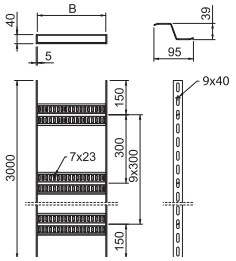
Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLZ 100 ALU	100	3	106.600	**7099772**
SLZ 200 ALU	200	3	124.667	**7099774**
SLZ 300 ALU	300	3	142.734	**7099776**
SLZ 400 ALU	400	3	160.767	**7099778**
SLZ 500 ALU	500	3	178.834	**7099780**
SLZ 600 ALU	600	3	196.900	**7099782**

Shipbuilding cable ladder with perforated side rail of side height 40 mm with welded, perforated Z rungs.

The shipbuilding cable ladder, including fittings, is also available in stainless steel on request. Powder coating according to RAL colours possible.

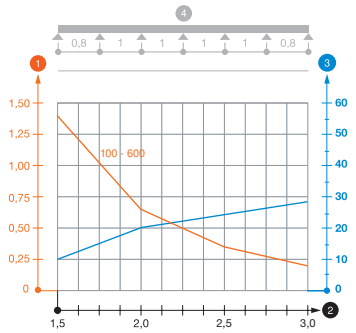
Type	Length mm	Dim. B mm	Side height mm	Rail thick-ness mm
SLZ 100 ALU	3000	110	40	5
SLZ 200 ALU	3000	210	40	5
SLZ 300 ALU	3000	310	40	5
SLZ 400 ALU	3000	410	40	5
SLZ 500 ALU	3000	510	40	5
SLZ 600 ALU	3000	610	40	5

Dimensions



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
SLZ 100 ALU	1.4	0.65	0.35	0.2
SLZ 200 ALU	1.4	0.65	0.35	0.2
SLZ 300 ALU	1.4	0.65	0.35	0.2
SLZ 400 ALU	1.4	0.65	0.35	0.2
SLZ 500 ALU	1.4	0.65	0.35	0.2
SLZ 600 ALU	1.4	0.65	0.35	0.2

Load



Load diagram, SLZ cable ladder

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

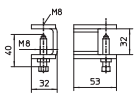
— Strut bend curve according to support width

System accessories

KLL 32 cable ladder beam clamp

St FT





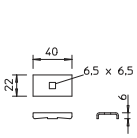
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
KLL 32 FT	32	10	17.500	**6221061**

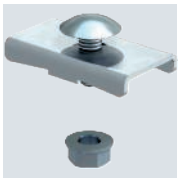
Beam clamp for fastening cable ladders to steel girders.

St FS FT

LKS 40 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 40 FS	10	2.300	6221076
LKS 40 FT	10	2.400	6221084



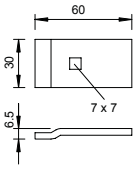


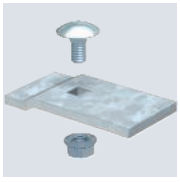
Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6 x 20.

St FT

LKS 60/4 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 60 4 FT	10	6.500	6221122



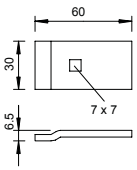


Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

A2 2B

LKS 60/4 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 60 4 A2	10	8.000	6221130



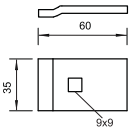


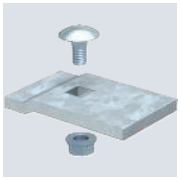
Hold-down clamp for fastening cable ladders.
Fastening on brackets, type AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

St FT

LKS 60/5 hold-down clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 60 5 FT	10	10.000	6232485



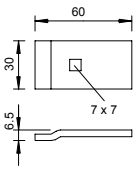


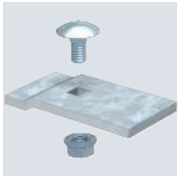
Hold-down clamp for fastening wide span cable ladders.
Fastening on bracket, type AW 80, and AWSS using the enclosed truss-head bolt FRS M8x20.

St FT

LKS 60/4 clamping piece

Type	Pack Piece	Weight kg/100 pc.	Item no.
LKS 60 4 FT 8.8	10	7.000	6221124





Hold-down clamp for fastening cable ladders.
Fastening on brackets, type MWA 12, AW 15, AW 30 and AW 55, using the enclosed truss-head bolt FRS M6x20.

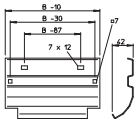
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Always indicate the item number when ordering.

LAB exit plate

St FT





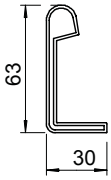
Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LAB 30 FT	300	1	58.000	**6220444**
LAB 60 FT	600	1	120.000	**6220479**

Exit plate for installation on the rung for vertically exiting cables.

Protective cap 60

PE





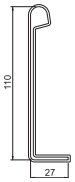
Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 60 OR	Pastel orange	40	1.072	**6222537**

Protective cap to cover cable ladder ends of side height 60 mm.

End cap 110

PE





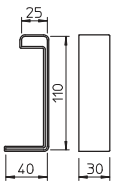
Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 110 OR	Pastel orange	20	1.345	**6222553**

End cap to cover cable ladder ends of side height 110 mm.

End cap 110

PVC



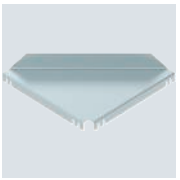


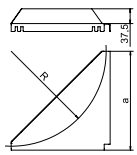
Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKHW 110 OR	Pastel orange	20	4.400	**6310398**

End cap to cover the ends of wide span cable ladders.

Corner plate

St FS DD



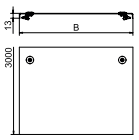


Type	Radius mm	Dim. a mm	Pack Piece	Weight kg/100 pc.	Item no.
LEB 25 FS	250	250	1	64.300	**6221203**
LEB 50 FS	500	500	1	209.300	**6221246**
LEB 25 DD	250	250	1	63.600	**6221216**
LEB 50 DD	500	500	1	205.500	**6221259**

Corner plate to increase the radius and the cable supporting surface.

St FS FT DD

Cover with turn buckle



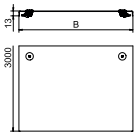


Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 075 FS	75	1.00	3000	3	83.340	**6052029**
DRL 100 FS	100	1.00	3000	3	103.000	**6052096**
DRL 150 FS	150	1.00	3000	3	141.667	**6052150**
DRL 200 FS	200	1.00	3000	3	181.340	**6052207**
DRL 300 FS	300	1.00	3000	3	259.334	**6052304**
DRL 400 FS	400	1.00	3000	3	338.670	**6052401**
DRL 500 FS	500	1.25	3000	3	623.000	**6052509**
DRL 600 FS	600	1.25	3000	3	741.000	**6052606**
DRL 100 FT	100	1.00	3000	3	106.670	**6051340**
DRL 200 FT	200	1.00	3000	3	202.670	**6051367**
DRL 300 FT	300	1.00	3000	3	289.000	**6051383**
DRL 400 FT	400	1.50	3000	3	542.000	**6051413**
DRL 500 FT	500	1.50	3000	3	667.670	**6051448**
DRL 600 FT	600	1.50	3000	3	793.000	**6051472**
DRL 100 DD	100	1.00	3000	3	106.340	**6052703**
DRL 200 DD	200	1.00	3000	3	185.000	**6052709**
DRL 300 DD	300	1.00	3000	3	263.340	**6052712**
DRL 400 DD	400	1.00	3000	3	342.070	**6052715**
DRL 500 DD	500	1.25	3000	3	626.670	**6052718**
DRL 600 DD	600	1.25	3000	3	744.570	**6052724**

Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

A2 2B

Cover with turn buckle





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 100 A2	100	1.00	3000	3	105.070	**6052878**
DRL 200 A2	200	1.00	3000	3	183.500	**6052894**
DRL 300 A2	300	1.00	3000	3	262.240	**6052908**
DRL 400 A2	400	1.00	3000	3	340.400	**6052932**
DRL 500 A2	500	1.25	3000	3	625.340	**6052959**
DRL 600 A2	600	1.25	3000	3	743.240	**6052975**

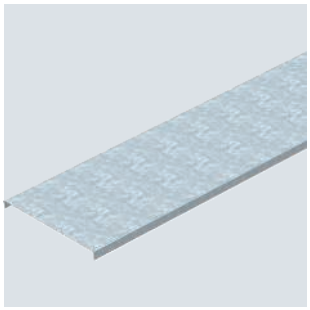
Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with three pairs of turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.

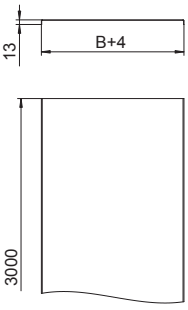
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Always indicate the item number when ordering.

Unperforated cover

St FS DD





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 FS	50	1.00	3000	3	59.767	**6052056**
DRLU 100 FS	100	1.00	3000	3	99.000	**6052103**
DRLU 150 FS	150	1.00	3000	3	138.267	**6052153**
DRLU 200 FS	200	1.00	3000	3	177.500	**6052210**
DRLU 300 FS	300	1.00	3000	3	256.000	**6052307**
DRLU 400 FS	400	1.00	3000	3	334.500	**6052405**
DRLU 500 FS	500	1.50	3000	3	619.234	**6052512**
DRLU 600 FS	600	1.50	3000	3	737.000	**6052609**
DRLU 050 DD	50	1.00	3000	3	59.770	**6052640**
DRLU 100 DD	100	1.00	3000	3	99.000	**6052643**
DRLU 150 DD	150	1.00	3000	3	138.267	**6052647**
DRLU 200 DD	200	1.00	3000	3	177.500	**6052650**
DRLU 300 DD	300	1.00	3000	3	256.000	**6052656**
DRLU 400 DD	400	1.00	3000	3	334.500	**6052662**
DRLU 500 DD	500	1.50	3000	3	619.234	**6052668**
DRLU 600 DD	600	1.50	3000	3	737.000	**6052674**

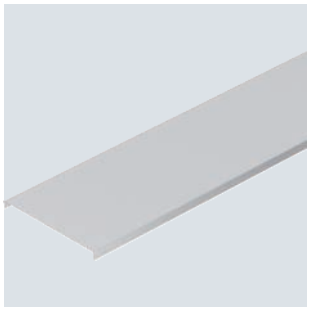
Cover for cable trays and mesh cable trays.

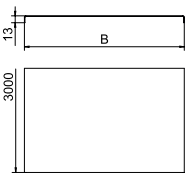
When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

Unperforated cover

A2 2B





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 050 A2	50	1.00	3000	3	59.767	**6052821**
DRLU 100 A2	100	1.00	3000	3	99.000	**6052824**
DRLU 200 A2	200	1.00	3000	3	177.500	**6052831**
DRLU 300 A2	300	1.00	3000	3	256.000	**6052834**
DRLU 400 A2	400	1.00	3000	3	334.500	**6052837**
DRLU 500 A2	500	1.50	3000	3	619.167	**6052841**
DRLU 600 A2	600	1.50	3000	3	736.900	**6052844**

Cover for cable trays and mesh cable trays.

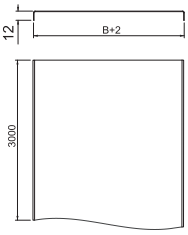
When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

Cover, unperforated

St FS





Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRLU 100 FS RU	100	0.70	3000	3	68.667	**6052021**
DRLU 150 FS RU	150	0.70	3000	3	96.333	**6052022**
DRLU 200 FS RU	200	0.70	3000	3	123.667	**6052023**
DRLU 300 FS RU	300	0.70	3000	3	178.667	**6052025**
DRLU 400 FS RU	400	0.90	3000	3	300.333	**6052027**

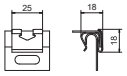
Cover for cable trays and mesh cable trays.

VA 2B

Cover clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
DK DRLU A2	30	0.842	6052810

Cover clamp for secure fastening of covers on cable trays and cable ladders.
At least 6 cover clamps should be mounted for each 3 metres of cover.



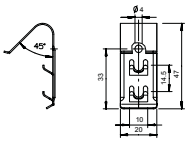


VA 2B

Cover clamp, universal

Type	Pack Piece	Weight kg/100 pc.	Item no.
DKU A2	20	0.794	6065600

Cover clamp for universal fastening of covers on cable trays, mesh cable trays and AZ small ducts.
The cover clamp is not suitable for use with mesh cable trays with a side height of 35 mm.
Depending on the tray width, 4–6 cover clamps are required for secure fastening of a 3 m cover.



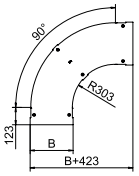


St FS FT

Cover for 90° bend LBD R3

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LBD 90 200 R3 FS	200	1.00	1	145.000	6225990
LBD 90 300 R3 FS	300	1.00	1	232.000	6225992
LBD 90 400 R3 FS	400	1.00	1	331.000	6225994
LBD 90 500 R3 FS	500	1.25	1	550.000	6225996
LBD 90 600 R3 FS	600	1.25	1	705.000	6225998
LBD 90 200 R3 FT	200	1.00	1	158.000	6226010
LBD 90 300 R3 FT	300	1.00	1	251.000	6226012
LBD 90 400 R3 FT	400	1.00	1	359.000	6226014
LBD 90 450 R3 FT	450	1.25	1	513.000	6226016
LBD 90 500 R3 FT	500	1.25	1	589.000	6226018
LBD 90 600 R3 FT	600	1.25	1	755.000	6226020
LBD 90 750 R3 FT	750	1.25	1	857.000	6226022
LBD 90 800 R3 FT	800	1.25	1	939.000	6226024
LBD 90 900 R3 FT	900	1.25	1	1,388.000	6226026
LBD 90 1000 R3FT	1000	1.25	1	1,624.000	6226028
LBD 90 1200 R3FT	1200	1.25	1	2,143.000	6226032

Cover with turn buckles for covering 90° cable ladder bends with welded rungs.



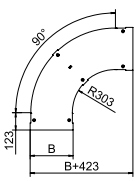


A2 2B

Cover for 90° bend LBD R3

Type	Dim. B mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
LBD 90 200 R3 A2	200	1.00	1	158.000	6226050
LBD 90 300 R3 A2	300	1.00	1	246.000	6226052
LBD 90 400 R3 A2	400	1.00	1	346.000	6226054
LBD 90 500 R3 A2	500	1.25	1	568.000	6226056
LBD 90 600 R3 A2	600	1.25	1	725.000	6226058

Cover with turn buckles for covering 90° cable ladder bends with welded rungs.





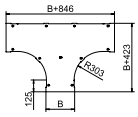
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Always indicate the item number when ordering.

Cover for LTD R3 T piece

St FS FT





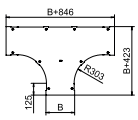
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LTD 200 R3 FS	200	1.00	1	274.000	**6226100**
LTD 300 R3 FS	300	1.00	1	413.000	**6226102**
LTD 400 R3 FS	400	1.00	1	567.000	**6226104**
LTD 500 R3 FS	500	1.25	1	737.000	**6226106**
LTD 600 R3 FS	600	1.25	1	922.000	**6226108**
LTD 200 R3 FT	200	1.00	1	298.000	**6226120**
LTD 300 R3 FT	300	1.00	1	450.000	**6226122**
LTD 400 R3 FT	400	1.00	1	617.000	**6226124**
LTD 450 R3 FT	450	1.25	1	696.000	**6226126**
LTD 500 R3 FT	500	1.25	1	775.000	**6226128**
LTD 600 R3 FT	600	1.25	1	989.000	**6226130**
LTD 750 R3 FT	750	1.25	1	1,687.000	**6226132**
LTD 800 R3 FT	800	1.25	1	1,836.000	**6226134**
LTD 900 R3 FT	900	1.25	1	2,151.000	**6226136**
LTD 1000 R3 FT	1000	1.25	1	2,488.000	**6226138**
LTD 1200 R3 FT	1200	1.25	1	3,222.000	**6226142**

Cover with turn buckles for covering T pieces with welded rungs.

Cover for LTD R3 T piece

A2 2B





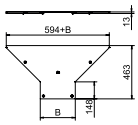
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LTD 200 R3 A2	200	1.00	1	287.000	**6226160**
LTD 300 R3 A2	300	1.00	1	429.000	**6226162**
LTD 400 R3 A2	400	1.00	1	585.000	**6226164**
LTD 500 R3 A2	500	1.25	1	757.000	**6226166**
LTD 600 R3 A2	600	1.25	1	943.000	**6226168**

Cover with turn buckles for covering T pieces with welded rungs.

Cover for add-on tee LAAD R3

St FS FT





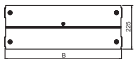
Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LAAD 200 R3 FS	200	1.00	1	171.000	**6226310**
LAAD 300 R3 FS	300	1.00	1	203.000	**6226312**
LAAD 400 R3 FS	400	1.00	1	303.000	**6226314**
LAAD 500 R3 FS	500	1.25	1	351.000	**6226316**
LAAD 600 R3 FS	600	1.25	1	397.000	**6226318**
LAAD 200 R3 FT	200	1.00	1	180.000	**6226330**
LAAD 300 R3 FT	300	1.00	1	219.000	**6226332**
LAAD 400 R3 FT	400	1.00	1	316.000	**6226334**
LAAD 450 R3 FT	450	1.25	1	341.000	**6226336**
LAAD 500 R3 FT	500	1.25	1	365.000	**6226338**
LAAD 600 R3 FT	600	1.25	1	414.000	**6226340**
LAAD 750 R3 FT	750	1.25	1	504.000	**6226342**
LAAD 800 R3 FT	800	1.25	1	528.000	**6226344**
LAAD 900 R3 FT	900	1.25	1	578.000	**6226346**
LAAD 1000 R3 FT	1000	1.25	1	624.000	**6226348**
LAAD 1200 R3 FT	1200	1.25	1	722.000	**6226352**

Cover with turn buckles for covering add-on tee with welded rungs.

St FS FT

Cover for LGBED adjustable vertical bend element

Type	Dim. B mm	Metal thick-ness mm	Pack Piece	Weight kg/100 pc.	Item no.
LGBED 200 FS	200	1.00	1	42.000	**6226210**
LGBED 300 FS	300	1.00	1	60.000	**6226212**
LGBED 400 FS	400	1.00	1	78.000	**6226214**
LGBED 500 FS	500	1.25	1	117.000	**6226216**
LGBED 600 FS	600	1.25	1	139.000	**6226218**
LGBED 200 FT	200	1.00	1	45.000	**6226230**
LGBED 300 FT	300	1.00	1	65.000	**6226232**
LGBED 400 FT	400	1.00	1	85.000	**6226234**
LGBED 450 FT	450	1.25	1	113.000	**6226236**
LGBED 500 FT	500	1.25	1	125.000	**6226238**
LGBED 600 FT	600	1.25	1	149.000	**6226240**
LGBED 750 FT	750	1.25	1	184.000	**6226242**
LGBED 800 FT	800	1.25	1	196.000	**6226244**
LGBED 900 FT	900	1.25	1	219.000	**6226246**
LGBED 1000 FT	1000	1.25	1	243.000	**6226248**
LGBED 1200 FT	1200	1.25	1	290.000	**6226252**





Cover with sash locks for covering adjustable bends with welded rungs.

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Vertical ladder systems

OBO vertical ladder systems for vertical routing of all kinds of cables. Available as light-duty vertical ladders with a side height of 45 mm, as a heavy-duty vertical ladder with U profiles and industrial vertical ladders with I profiles. Both the heavy-duty and industrial vertical ladders can be assembled in variable lengths.









Installation principle



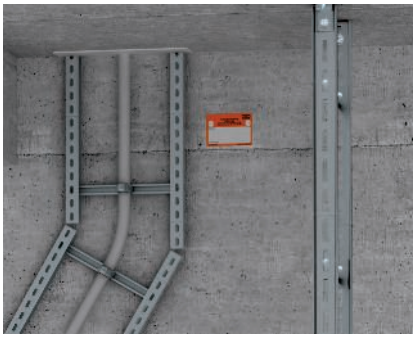
1	Light-duty vertical ladder
2	Heavy-duty vertical ladder
3	Industrial vertical cable ladder
4	Cover with spacer
5	Rung seat with MS4022 rung

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Mounting aid



Wall mounting application
Wall mounting of a vertical ladder with mounting angles.



Change of direction application
Implementation of a change of direction with heavy-duty vertical ladder, type SLM.



Free-standing vertical ladder application
Mounting example for free-standing industrial vertical ladders, type SLS, fastened to the ceiling and floor.



Straight connection of vertical ladders
Connection of vertical ladders, types LG and SSL 60, with connectors, type LVG.



Angle connection of cable ladders
Creation of flexible vertical ladder angles with angle connector, type LWVG.



Adjustable connection of cable ladders
Creation of flexible vertical ladder angles with adjustable connector, type LGVG.



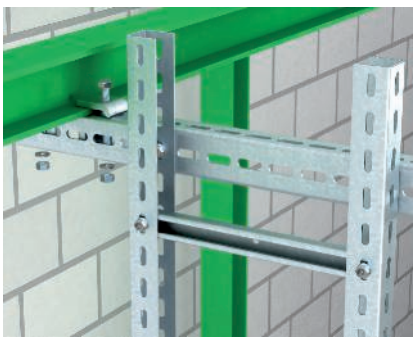
Wall mounting, light-duty vertical ladder
Wall mounting of light-duty vertical ladder, type SLL 45, with wall bracket, type WB 30/75.



Direct wall mounting
Direct fastening of the vertical ladders LG and SSL with anchor bolts on the wall.



Wall mounting, heavy-duty vertical ladder
Wall mounting of heavy-duty vertical ladder, type SLM 50, with mounting angle, type BW.



Vertical ladder mounting on steel
Installation of the heavy-duty vertical ladder, type SLM 50, with cantilever beam made of U profile, on a steel construction.



Cable fastening with U clamp
Fastening of cables to the rung with clamp clips.



Fastening of industrial vertical ladder
Wall mounting of industrial vertical ladder with mounting angle, type BW 80/55.



Fastening of C profile rung
Fastening of C profile rung, type CK 40, in industrial vertical ladders, type SLS 80.



Fastening of angle rung
Fastening of the angle rung, type WSK 40, in industrial vertical ladders, type SLS 80.



Ceiling fastening
Fastening of an industrial vertical ladder, type SLS 80, to the ceiling using mounting angle, type BW.

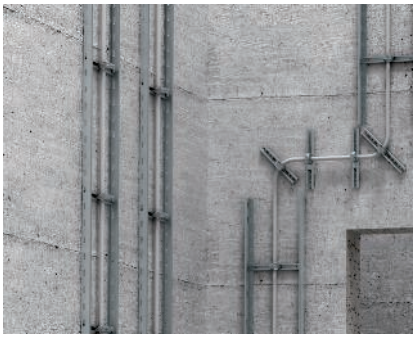


Illustration of vertical shaft
Illustration of complete vertical ladder mounting.



Rung seat fixed to IS 8 support
Fastening of the rung seat, type SA, with profile rail, type MS 4022, in I support.



Rung seat in steel girder
Direct fastening (clamping) of the rung seat, type SAA, with profile rail, type MS 4022, on steel girder.

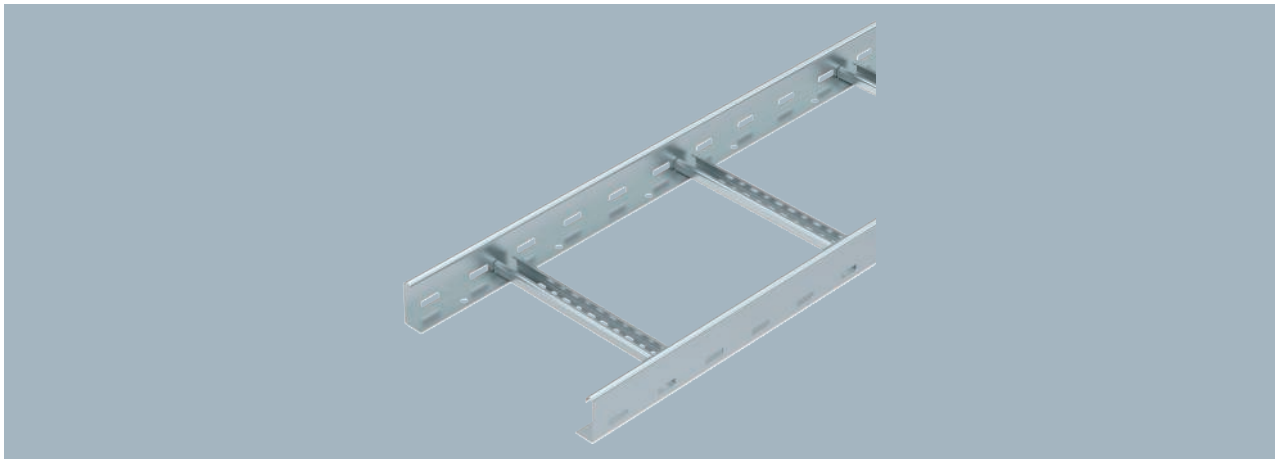


Cover mounting, vertical
Installation of the cover with spacer on a vertical ladder.

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Cable ladder LG 60, 3 m VS

St FS FT



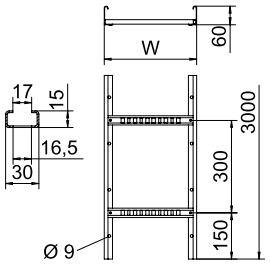
Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 3 FS	200		3	267.000	**6208538**
LG 630 VS 3 FS	300		3	288.933	**6208541**
LG 640 VS 3 FS	400		3	314.600	**6208544**
LG 650 VS 3 FS	500		3	332.600	**6208547**
LG 660 VS 3 FS	600		3	354.266	**6208550**
LG 620 VS 3 FT	200		3	285.066	**6208562**
LG 630 VS 3 FT	300		3	308.000	**6208566**
LG 640 VS 3 FT	400		3	331.000	**6208570**
LG 650 VS 3 FT	500		3	354.733	**6208574**
LG 660 VS 3 FT	600		3	385.400	**6208578**

The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

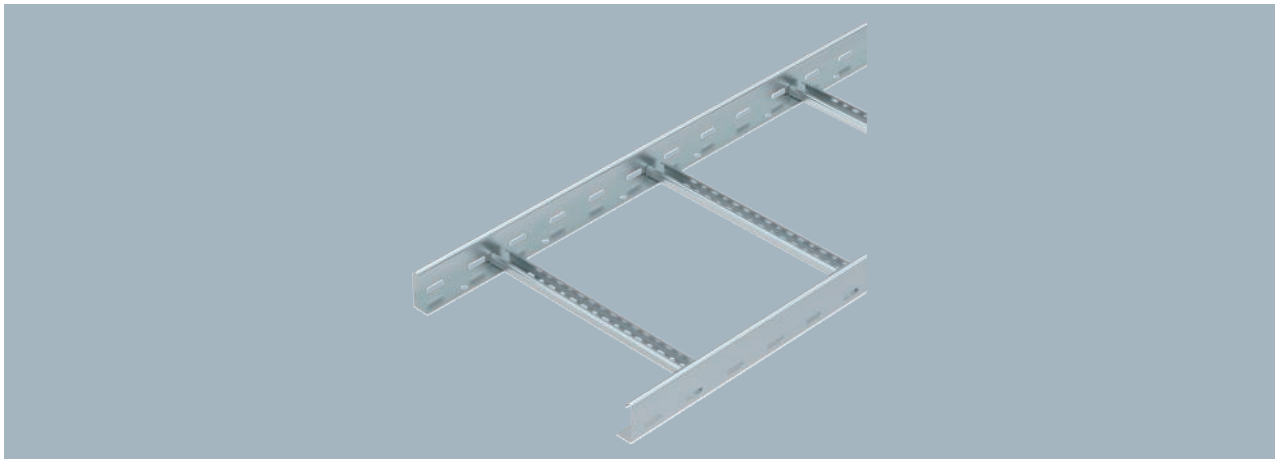
Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm^2	Rung spacing mm
LG 620 VS 3 FS	3000	200	1.5	98	300
LG 630 VS 3 FS	3000	300	1.5	148	300
LG 640 VS 3 FS	3000	400	1.5	198	300
LG 650 VS 3 FS	3000	500	1.5	248	300
LG 660 VS 3 FS	3000	600	1.5	298	300

Dimensions



St FS FT

Cable ladder LG 60, 6 m VS

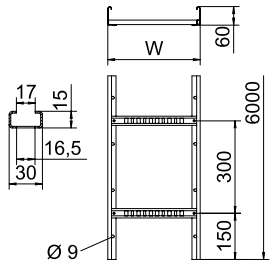


The cable ladder is shipped folded up.
Cables can be mounted with the matching clamp clip, type 2056. The cable ladders in the widths 200 mm to 400 mm are also approved for vertical mounting as a vertical ladder in systems that guarantee the maintenance of electrical functionality according to DIN 4102 Part 12. Cables can be mounted with the clamp clip approved for maintenance of electrical function, type 2056 M.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Type	Width mm	BS	Pack m	Weight kg/100 m	Item no.
LG 620 VS 6 FS	200		6	267.066	**6208627**
LG 630 VS 6 FS	300		6	288.733	**6208630**
LG 640 VS 6 FS	400		6	314.400	**6208633**
LG 650 VS 6 FS	500		6	332.400	**6208636**
LG 660 VS 6 FS	600		6	354.066	**6208639**
LG 620 VS 6 FT	200		6	284.833	**6208650**
LG 640 VS 6 FT	400		6	330.833	**6208656**
LG 650 VS 6 FT	500		6	354.500	**6208659**
LG 660 VS 6 FT	600		6	385.166	**6208661**

Dimensions

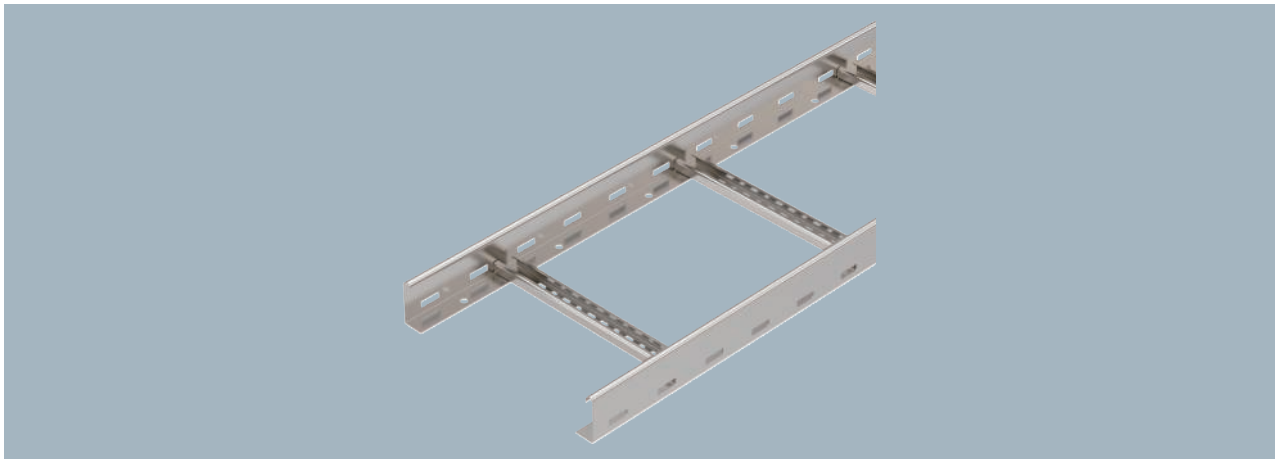


Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm²	Rung spacing mm
LG 620 VS 6 FS	6000	200	1.5	98	300
LG 630 VS 6 FS	6000	300	1.5	148	300
LG 640 VS 6 FS	6000	400	1.5	198	300
LG 650 VS 6 FS	6000	500	1.5	248	300
LG 660 VS 6 FS	6000	600	1.5	298	300

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Always indicate the item number when ordering.

Cable ladder LG 60, 6 m VS



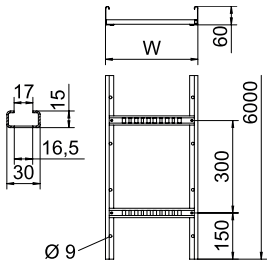
Type	Width mm		Pack m	Weight kg/100 m	Item no.
LG 620 VS6 A2	200		6	267.067	**6208700**
LG 630 VS6 A2	300		6	288.733	**6208703**
LG 640 VS6 A2	400		6	314.400	**6208706**
LG 650 VS6 A2	500		6	332.400	**6208709**
LG 660 VS6 A2	600		6	354.066	**6208712**

The cable ladder is shipped folded up.
You can find the appropriate type 2056 clamp clip in the vertical ladder systems section.

Cable ladder with perforated side rail of side height 60 mm with riveted C profile frames, open in an upwards direction (VS version).

Type	Length mm	Dim. B mm	Rail thickness mm	Usable cross-section cm^2	Rung spacing mm
LG 620 VS6 A2	6000	200	1.5	98	300
LG 630 VS6 A2	6000	300	1.5	148	300
LG 640 VS6 A2	6000	400	1.5	198	300
LG 650 VS6 A2	6000	500	1.5	248	300
LG 660 VS6 A2	6000	600	1.5	298	300

Dimensions

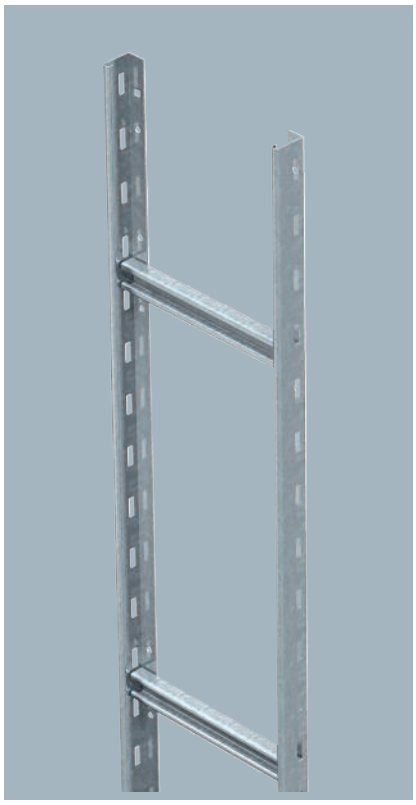


St FS

60

SLL 60 medium-duty vertical ladder, 6 m

Type	Width mm	Rail thick-ness mm		Pack m	Weight kg/100 m	Item no.
SLL 620 CPS 4 FS	200	1.5		6	274.600	**6010620**
SLL 630 CPS 4 FS	300	1.5		6	300.767	**6010622**
SLL 640 CPS 4 FS	400	1.5		6	326.933	**6010624**
SLL 650 CPS 4 FS	500	1.5		6	353.267	**6010626**
SLL 660 CPS 4 FS	600	1.5		6	379.433	**6010628**

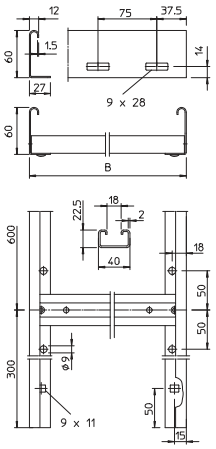


Vertical ladder with a side height of 60 mm with riveted C profile rungs, open in upwards direction.

Fastening takes place directly on the wall or using the wall brackets, type WB 30/75. The slot dimension of the rung is 18 mm and the appropriate clamp clip is type 2056U.

Type	Length mm	Rung spacing mm
SLL 620 CPS 4 FS	6000	600
SLL 630 CPS 4 FS	6000	600
SLL 640 CPS 4 FS	6000	600
SLL 650 CPS 4 FS	6000	600
SLL 660 CPS 4 FS	6000	600

Dimensions



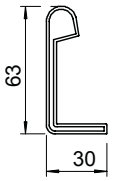
Always indicate the item number when ordering.

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Protective cap 60

PE



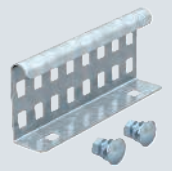


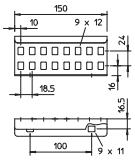
Type	Colour	Pack Pair	Weight kg/100 pairs	Item no.
SKH 60 OR	Pastel orange	40	1.072	**6222537**

Protective cap to cover cable ladder ends of side height 60 mm.

Straight connector 60

St FS FT





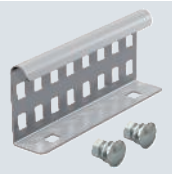
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 FS	60	10	22.000	**6208840**
LVG 60 FT	60	10	23.000	**6208843**

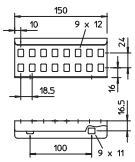
Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.

Straight connector 60

A2 2B





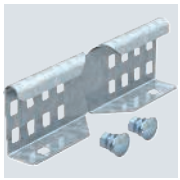
Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LVG 60 A2	60	10	22.000	**6208846**

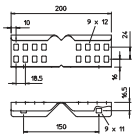
Straight connector as external connector to connect cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector 60

St FS





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 FS	60	10	24.000	**6208895**

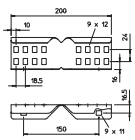
The bolt fastening ensures the continuity of the equipotential bonding.

Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

Angle connector 60

A2 2B





Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LWVG 60 A2	60	10	24.000	**6208898**

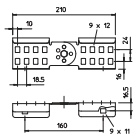
The bolt fastening ensures the continuity of the equipotential bonding.

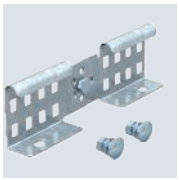
Angle connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation.

St FS FT

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 FS	60	10	28.500	**6208941**
LGVG 60 FT	60	10	29.900	**6208944**





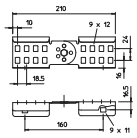
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

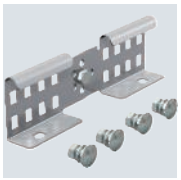
The bolt fastening ensures the continuity of the equipotential bonding.

A2 2B

Adjustable connector 60

Type	Side height mm	Pack Piece	Weight kg/100 pc.	Item no.
LGVG 60 A2	60	10	28.500	**6208947**





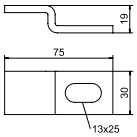
Adjustable connector as external connector to join cable ladders and fittings with a side height of 60 mm and continuous rail perforation. Angle can be adjusted vertically.

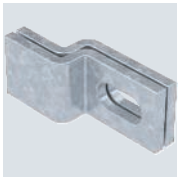
The bolt fastening ensures the continuity of the equipotential bonding.

St FT

Wall bracket

Type	Pack Piece	Weight kg/100 pc.	Item no.
WB 30 75 FT	10	18.100	**6019617**



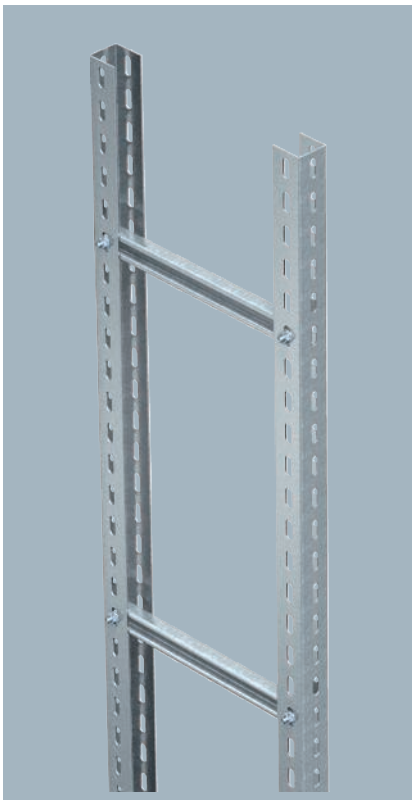


Wall bracket for the fastening of light-weight vertical ladders type SLL, to concrete walls and masonry.

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Heavy-duty vertical cable ladder SLM 50, 3 m C40

St FT

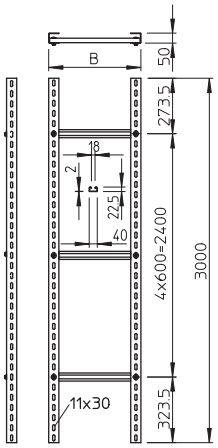


Type	Width mm	Rail thick-ness mm	Pack m	Weight kg/100 m	Item no.
SLM 50 C40 2 FT	200	2.5	3	572.500	**6010466**
SLM 50 C40 3 FT	300	2.5	3	600.167	**6010474**
SLM 50 C40 4 FT	400	2.5	3	627.833	**6010482**
SLM 50 C40 5 FT	500	2.5	3	655.333	**6010490**

The vertical ladder with a 50 mm side height is shipped in an unmounted state and must be screwed together on the construction site.

The appropriate clamp clip for the C profile rung is type 2056U.

Dimensions



Type	Length mm	Dim. B mm	Rung spacing mm
SLM 50 C40 2 FT	3000	200	600
SLM 50 C40 3 FT	3000	300	600
SLM 50 C40 4 FT	3000	400	600
SLM 50 C40 5 FT	3000	500	600

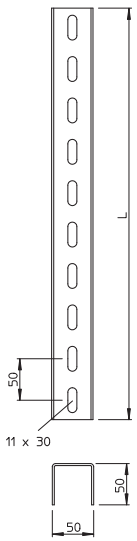
St FT

US 5 support

Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 5 20 FT	200	2.5		1	51.000	**6340881**
US 5 30 FT	300	2.5		1	79.000	**6340903**
US 5 40 FT	400	2.5		1	106.000	**6340911**
US 5 50 FT	500	2.5		1	133.000	**6340938**
US 5 60 FT	600	2.5		1	160.000	**6340946**
US 5 70 FT	700	2.5		1	175.000	**6340950**
US 5 80 FT	800	2.5		1	200.000	**6340954**
US 5 90 FT	900	2.5		1	227.000	**6340958**
US 5 100 FT	1000	2.5		1	265.000	**6340962**
US 5 110 FT	1100	2.5		1	278.000	**6340964**
US 5 150 FT	1500	2.5		1	395.000	**6340966**
US 5 200 FT	2000	2.5		1	506.000	**6340970**
US 5 300 FT	3000	2.5		1	795.000	**6340989**
US 5 600 FT	6000	2.5		1	1,578.000	**6340997**

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.





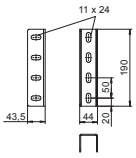
St FT

VUS 5 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 FT	10	61.000	**6018505**

U support connector to connect US 5 supports.

Including appropriate fastening material.



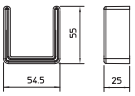


PE

Protective cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 5 KS OR	Pastel orange	20	1.300	**6338462**

Protective cap to cover the ends of US 5 supports.



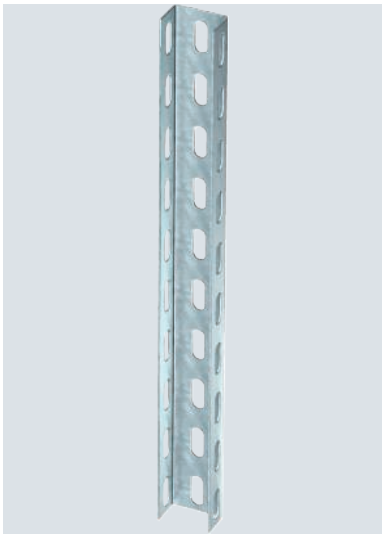


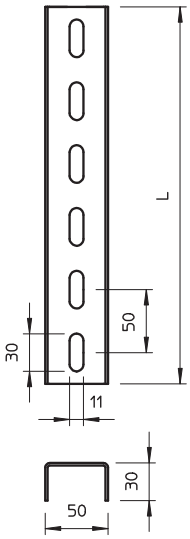
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Always indicate the item number when ordering.

US 3 support

St FT





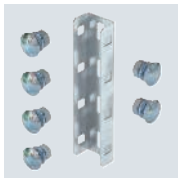
Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 3 600 FT	6000	2	1	834.000	**6342450**

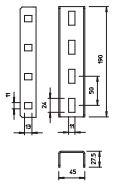
U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

VUS 3 U support connector

St FT





Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 FT	10	48.300	**6018513**

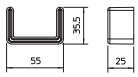
U support connector to connect US 3 supports.

Including appropriate fastening material.

Protective cap

PE





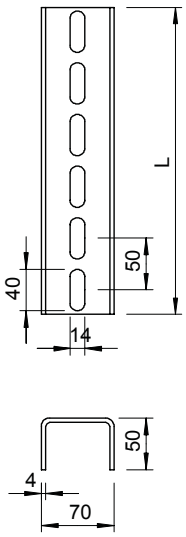
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 3 KS OR	Pastel orange	20	1.068	**6338458**

Protective cap to cover the ends of US 3 supports.

St FT

US 7 support

Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 7 20 FT	200	4		1	81.000	**6340016**
US 7 30 FT	300	4		1	121.000	**6340032**
US 7 40 FT	400	4		1	160.700	**6340059**
US 7 50 FT	500	4		1	200.900	**6340075**
US 7 60 FT	600	4		1	241.100	**6340091**
US 7 70 FT	700	4		1	281.300	**6340113**
US 7 80 FT	800	4		1	323.000	**6340148**
US 7 100 FT	1000	4		1	416.000	**6340180**
US 7 120 FT	1200	4		1	484.000	**6340202**
US 7 130 FT	1300	4		1	540.000	**6340210**
US 7 140 FT	1400	4		1	580.000	**6340229**
US 7 150 FT	1500	4		1	620.000	**6340237**
US 7 160 FT	1600	4		1	660.000	**6340245**
US 7 170 FT	1700	4		1	686.000	**6340253**
US 7 180 FT	1800	4		1	750.000	**6340261**
US 7 190 FT	1900	4		1	790.000	**6340288**
US 7 200 FT	2000	4		1	803.700	**6340296**
US 7 300 FT	3000	4		1	1,250.000	**6340377**
US 7 400 FT	4000	4		1	1,660.000	**6340393**
US 7 600 FT	6000	4		1	2,490.000	**6340318**





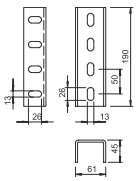
U support in fixed lengths. Dimensions 70 x 50 mm.

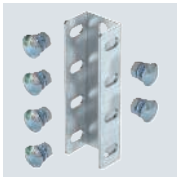
For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

St FT

VUS 7 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 FT	10	112.800	**6018378**





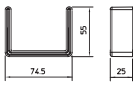
U support connector to connect US 7 supports.

Including appropriate fastening material.

PE

End cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 7 KS OR	Pastel orange	20	1.806	**6338497**



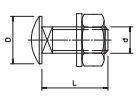


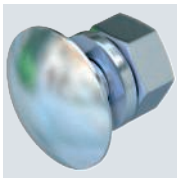
Protective cap to cover the ends of US 7 supports.

St F

Truss-head bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 8x16 F 8.8	M8x16	16	8	20	8.8	50	1.947	**6406963**
FRS 8x25 F	M8x25	25	8	20	8.8	50	2.217	**6406998**
FRS 8x35 F	M8x35	35	8	20	5.6	50	2.431	**6407048**





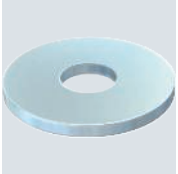
Truss-head bolt with square neck. With washer and hexagonal nut.

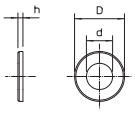
The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

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Large washer

St F





Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN440 9 F	M8	9	28	3	100	1.057	**6408710**

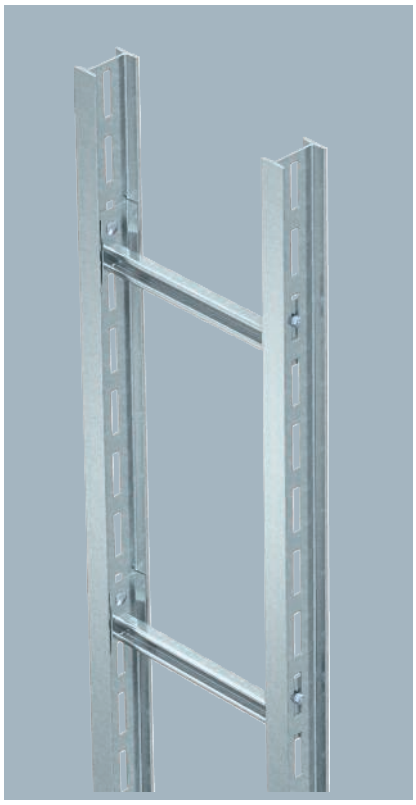
Washer of particularly large outer diameter.

St FT

IS8

Industrial vertical cable ladder, 6 m C40

Type	Width mm	Pack m	Weight kg/100 m	Item no.
SLS 80 C40 2 FT	200	6	1,277.167	**6013384**
SLS 80 C40 3 FT	300	6	1,304.833	**6013392**
SLS 80 C40 4 FT	400	6	1,286.667	**6013406**
SLS 80 C40 5 FT	500	6	1,360.000	**6013414**
SLS 80 C40 6 FT	600	6	1,387.667	**6013422**

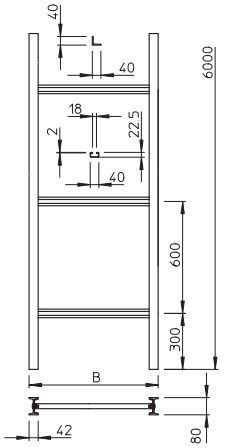


Vertical ladder of side height 80 mm with screwed-in rungs.

The vertical ladder is shipped in an unmounted state.
The appropriate clamp clip is type 2056U.

Type	Length mm	Dim. B mm	Rung spacing mm
SLS 80 C40 2 FT	6000	200	600
SLS 80 C40 3 FT	6000	300	600
SLS 80 C40 4 FT	6000	400	600
SLS 80 C40 5 FT	6000	500	600
SLS 80 C40 6 FT	6000	600	600

Dimensions

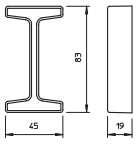


PE

End cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 KS OR	Pastel orange	20	0.705	**6338519**

End cap to cover the ends of IS 8 supports.





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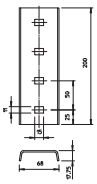
Always indicate the item number when ordering.

VIS 8 I support connector

St FT

IS8



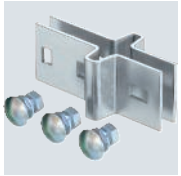


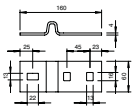
Type		Pack Piece	Weight kg/100 pc.	Item no.
VIS 8 FT		10	87.000	**6018300**

I support connector to connect IS 8 supports.
Including appropriate fastening material.

Support strap

St FT





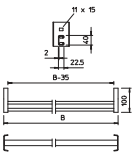
Type		Pack Piece	Weight kg/100 pc.	Item no.
AHIS 8 FT		10	89.900	**6019064**

Including appropriate fastening material.
Support strap for right-angled connection of I supports.

Rung CK 40

St FT





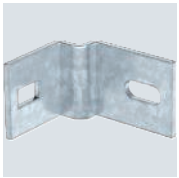
Type	Width mm		Pack Piece	Weight kg/100 pc.	Item no.
CK 40 20 FT	154		1	62.300	**6008224**
CK 40 30 FT	254		1	95.500	**6008232**
CK 40 40 FT	354		1	95.500	**6008240**
CK 40 50 FT	454		1	112.000	**6008259**
CK 40 60 FT	554		1	128.600	**6008267**

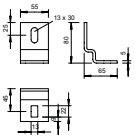
The maximum rung load is 175 kg.
CK40 rung for use in heavy-duty vertical ladders and in IS 8 supports.

System accessories

Mounting angle BW 80

St FT



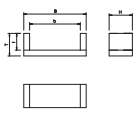


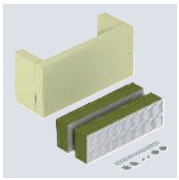
Type		Pack Piece	Weight kg/100 pc.	Item no.
BW 80 55 FT		10	32.900	**6019528**

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.
Including fastening bolt M12x30.
Mounting angle for mounting IS 8 supports on the wall.

Strain relief, three-sided, with mineral wool, interior height 115 mm

Type	Dim. b mm	Dim. t mm	Dim. H mm	Dim. B mm	Dim. T mm	Pack Piece	Weight kg/100 pc.	Item no.
ZSE90-25-11	250	115	140	340	160	1	376.000	**7215702**
ZSE90-35-11	350	115	140	440	160	1	466.000	**7215706**
ZSE90-45-11	450	115	140	540	160	1	506.000	**7215709**

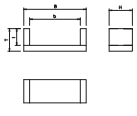


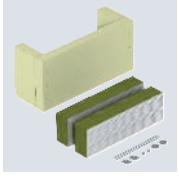


Strain relief as an effective support measure for vertical cable routing, according to DIN 4102 Part 12, approved for all cable types and all vertical routing systems. Maintenance of electrical function classes E30 to E90. Housing including mineral fibre panels, fastening material, ASX fire protection coating in cartridge and identification plate.

Strain relief, three-sided, with mineral wool, interior height 175 mm

Type	Dim. b mm	Dim. t mm	Dim. H mm	Dim. B mm	Dim. T mm	Pack Piece	Weight kg/100 pc.	Item no.
ZSE90-25-17	250	175	160	340	220	1	484.000	**7215713**
ZSE90-35-17	350	175	160	440	220	1	600.000	**7215716**
ZSE90-45-17	450	175	160	540	220	1	700.000	**7215719**
ZSE90-55-17	550	175	160	640	220	1	770.000	**7215726**
ZSE90-65-17	650	175	160	740	220	1	822.000	**7215730**



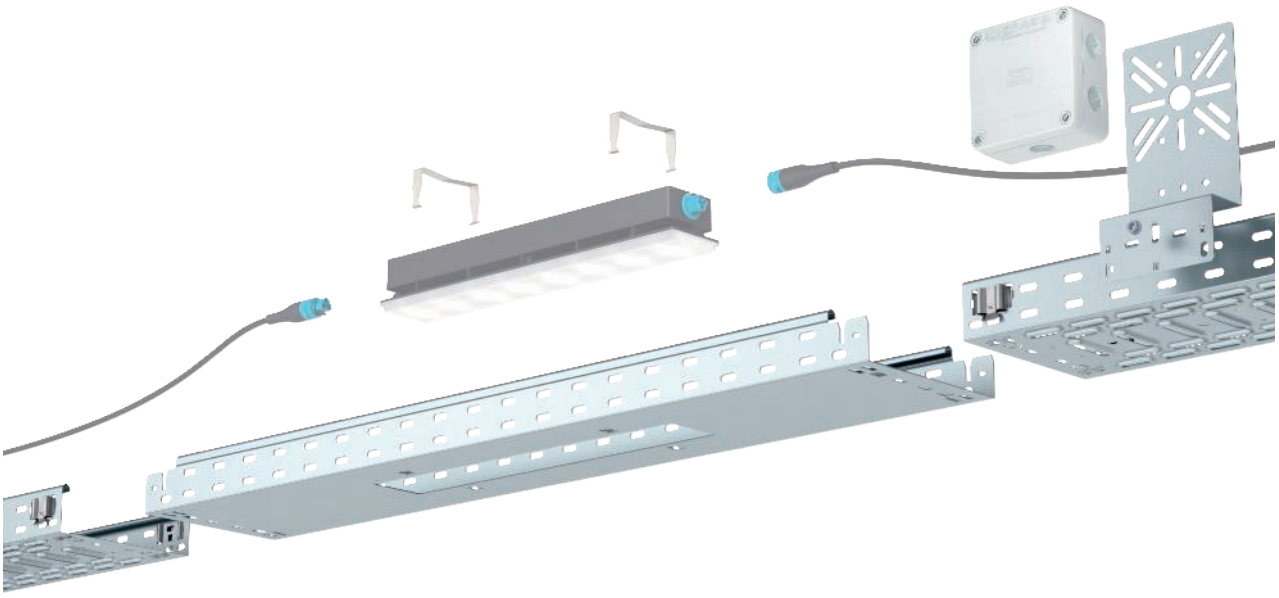


Strain relief as an effective support measure for vertical cable routing, according to DIN 4102 Part 12, approved for all cable types and all vertical routing systems. Maintenance of electrical function classes E30 to E90. Housing including mineral fibre panels, fastening material, ASX fire protection coating in cartridge and identification plate.

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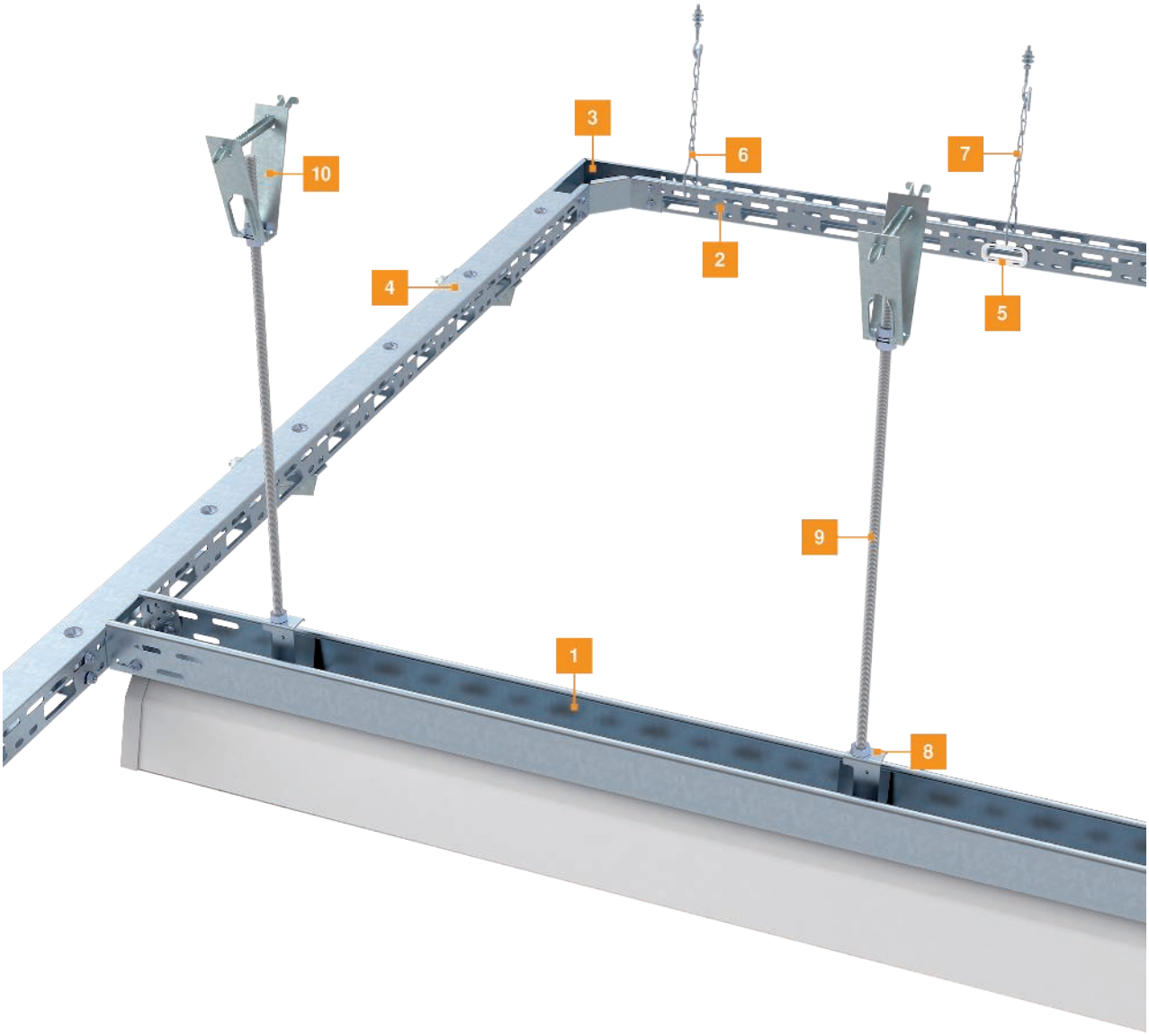
Always indicate the item number when ordering.

System description



Whether in industry, in purpose-built buildings or in especially attractive buildings, OBO luminaire support systems simplify the installation of light systems in many areas of industry and buildings. They are also suitable for flexible power and data supply to machines and workstations. The OBO luminaire support system makes cable laying and the optimum positioning of lighting for any possible application simply child's play.

Installation principle



1	Luminaire support tray
2	Luminaire support channel
3	90° bend
4	Cover with turn buckle
5	Edge protection ring
6	Suspension bracket
7	Suspension chain
8	Centre suspension
9	Threaded rod
10	Trapezoidal fastening

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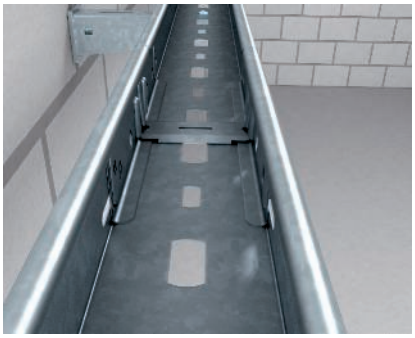
Mounting aid



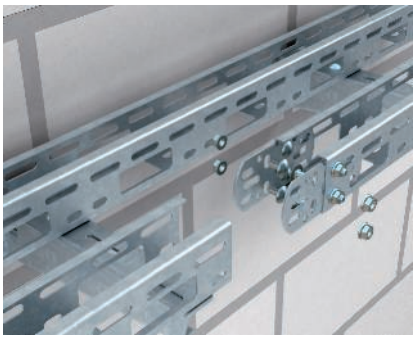
Luminaire support tray application
Suspension of the luminaire support tray with chain and suspension bracket.



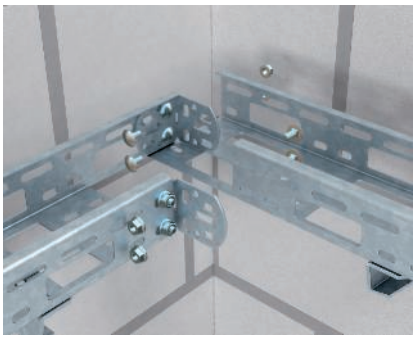
Luminaire support tray application
Suspension of a luminaire support tray with centre suspension MAH and threaded rod.



Straight connection of luminaire support tray
Horizontal straight connection of the luminaire support tray, type LTR with straight connector set, type RV 607.



Longitudinal connection of luminaire support channel
Horizontal longitudinal connection of the luminaire support channel, type LTS, with straight and angle connectors, type VF AZK.



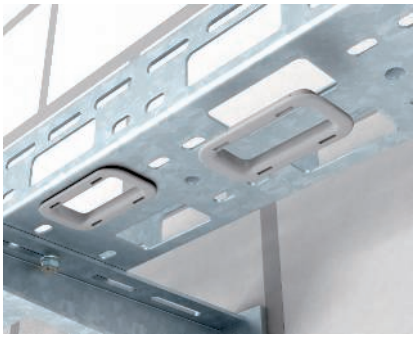
Horizontal angle connection
Horizontal angle connection of the luminaire support channel, type LTS, with straight and angle connectors, type VF AZK.



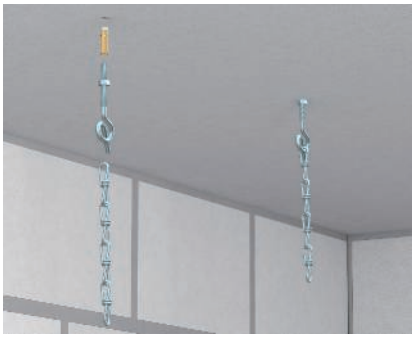
Vertical straight connection
Vertical straight connection of the luminaire support tray, type LTS, with two straight and angle connectors, type VF AZK.



Side rail cable protection ring
Insertion of the cable protection rings, type KSR 910, in the side rail of the luminaire support channel.



Floor cable protection ring
Insertion of the cable protection rings, type KSR 915, in the base of the luminaire support channel.



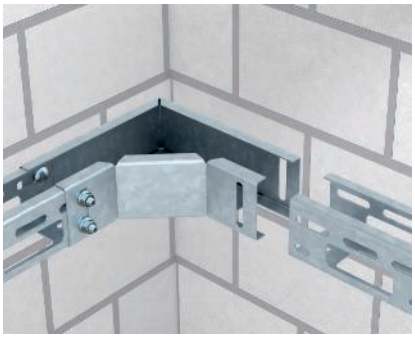
Chain suspension
Implementation of a chain suspension for luminaire support systems with anchors, ceiling hook, type 948/TG6 and suspension chain, type LTK-K.



Centre suspension
Efficient creation of centre suspensions. The luminaire support tray is fastened to the centre suspension hanger without bolts.



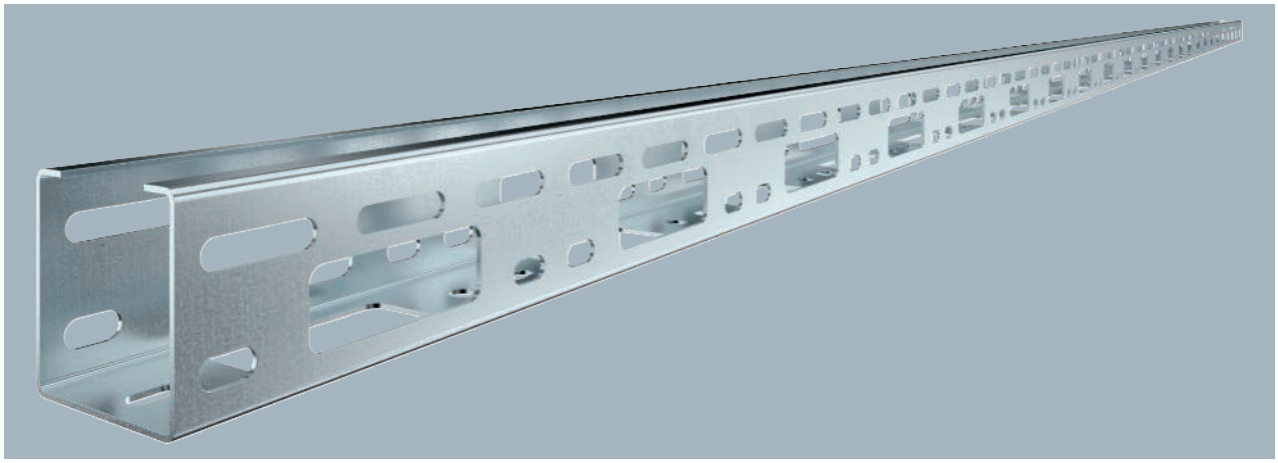
Pre-wired luminaire supports
Mounting of a pre-terminated luminaire beneath a luminaire support tray.



Mounting of luminaire support fitting
Mounting of luminaire support fitting by simple interconnection of fitting and luminaire support tray.

St FS

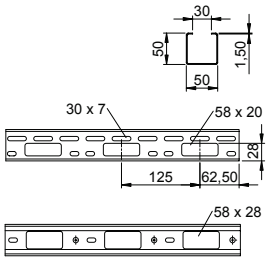
Luminaire support channel 50



Perforated luminaire support channel for cable routing and luminaire mounting.

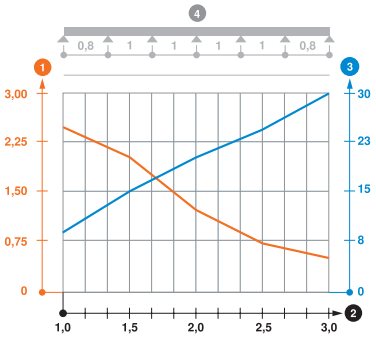
Type		Pack m	Weight kg/100 m	Item no.
LTS 50 FS		6	135.700	**6075000**

Dimensions



Type	Length mm	Width mm	Usable cross-section cm^2	Metal thickness mm
LTS 50 FS	6000	50	22	1.50

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTS 50 FS	2.5	2	1.2	0.85	0.5

Load diagram, luminaire support channel, type LTS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

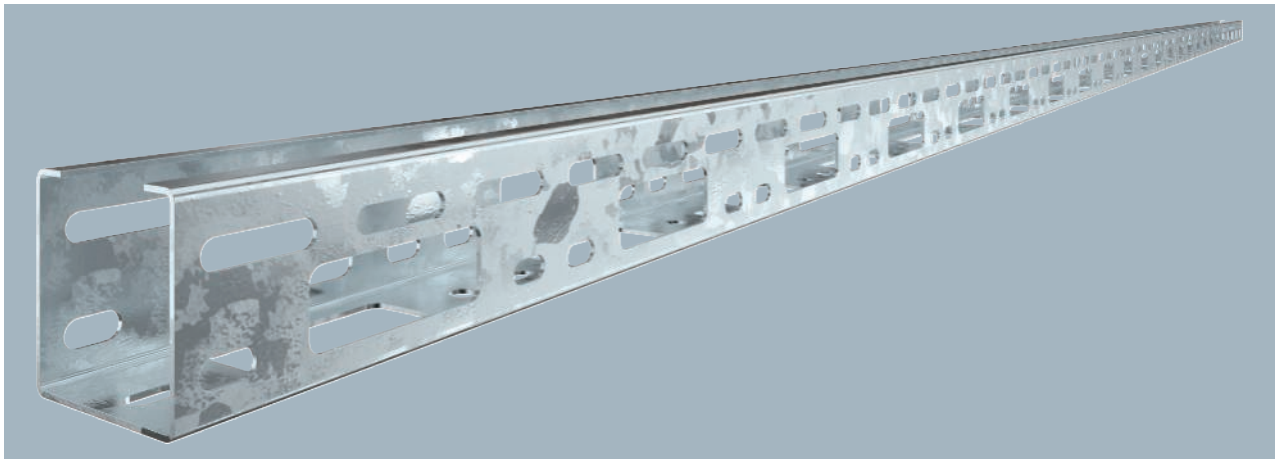
Load curve with cable tray/ladder width in mm

Strut bend curve according to support width

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Luminaire support channel 50

St FT

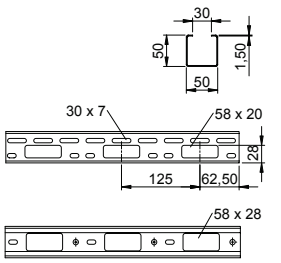


Type		Pack m	Weight kg/100 m	Item no.
LTS 50 FT		6	149.500	6075005

Perforated luminaire support channel for cable routing and luminaire mounting.

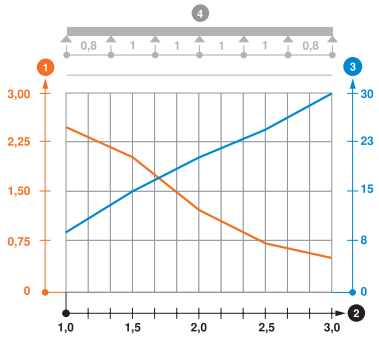
Type	Length mm	Width mm	Usable cross-section cm²	Metal thickness mm
LTS 50 FT	6000	50	22	1.50

Dimensions



Type	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTS 50 FT	2.5	2	1.2	0.85	0.5

Load



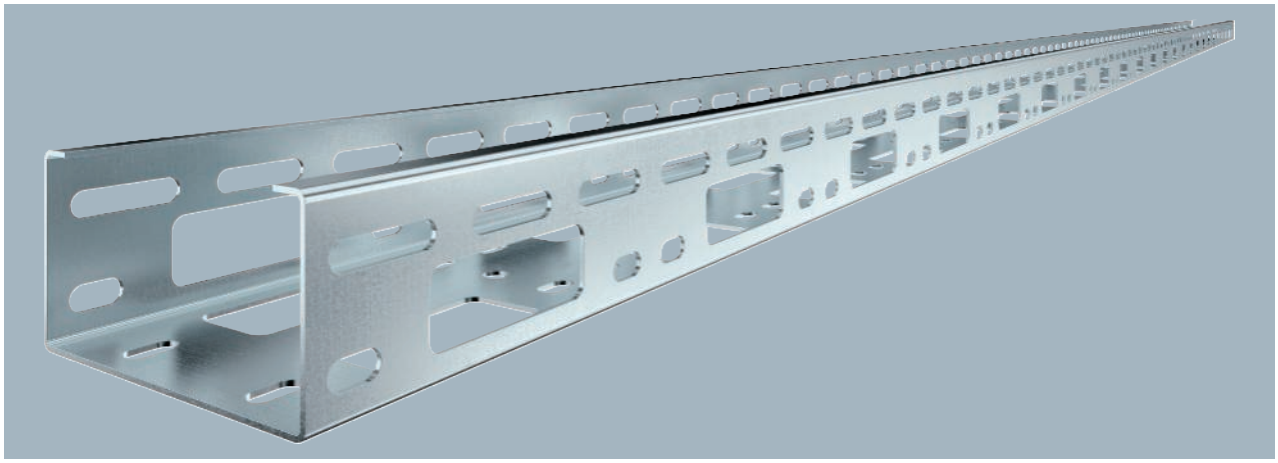
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

— Strut bend curve according to support width

St FS

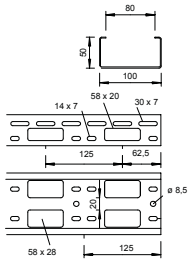
Luminaire support channel 100



Perforated luminaire support channel for cable routing and luminaire mounting.

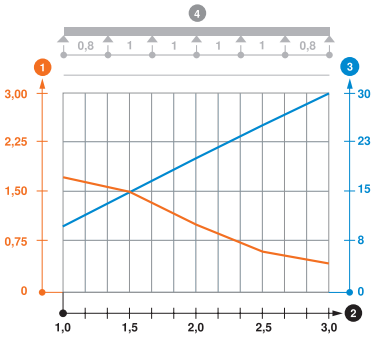
Type	Pack m	Weight kg/100 m	Item no.
LTS 100 FS	6	177.000	6075024

Dimensions



Type	Length mm	Width mm	Usable cross-section cm²	Metal thickness mm
LTS 100 FS	6000	100	46	1.50

Load



	1.0 m kN/m	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTS 100 FS	1.7	1.5	1	0.6	0.4

Load diagram, luminaire support channel, type LTS

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

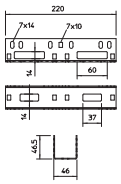
— Strut bend curve according to support width

St FS DD

Straight connector 50

Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK 50 FS	25	27.100	6066615
VF AZK 50 DD	25	27.100	6066623

Straight connector for connection of luminaire support channels and AZ channels.
An adjustable connector can be created using two straight and angle connectors.

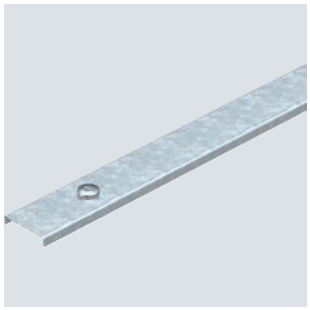


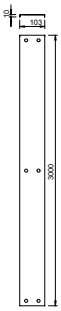


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Cover with turn buckle

St FS





Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 FS	53	3000	3	55.000	**6080138**
AZDMD 100 FS	103	3000	3	97.767	**6080227**

Cover with turn buckle for AZ small duct.

Cover with turn buckle

St DD





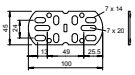
Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 DD	53	3000	3	58.340	**6080154**
AZDMD 100 DD	103	3000	3	101.700	**6080235**

Cover with turn buckle for AZ small duct.

Straight and angle connector 50

St FT





Type	Pack Piece	Weight kg/100 pc.	Item no.
VF AZK FT	25	7.656	**6066550**

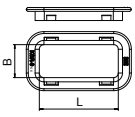
Straight and angle connector for connection of AZ channels.

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.

DR 910 cable protection ring

PE





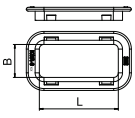
Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-910 PE	Light grey	20 x 58	25	0.470	**6066712**

Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ small ducts and luminaire support channel.

915 cable protection ring

PE





Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-915 PE	Light grey	28 x 58	25	0.520	**6066704**

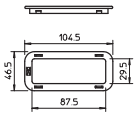
Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.

PE

DR 920 cable protection ring

Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-DR 920 PE	Light grey	32 x 90	25	0.637	6087965

Cable protection ring for side perforation in the side rails of the IKS cable tray.



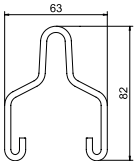


St F

Suspension bracket 50

Type	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 50 D4 FT	0.35	50	1.985	6066505

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.



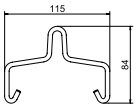


St F

Suspension bracket 100

Type	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 100 D5 FT	0.6	50	4.060	6066510

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.





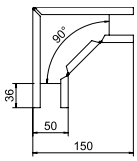
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Luminaire support channel

90° bend LTS B

St DD





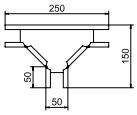
Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LTS B DD	50	50	1	36.600	6074901

90° bend, horizontal, for AZ small duct AZK 050 and luminaire support channel LTS 50.

LTS T T-piece

St DD



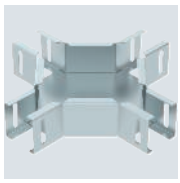


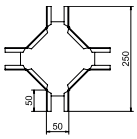
Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LTS T DD	50	50	1	47.800	6074912

Horizontal tee, for AZ small duct AZK 050 and luminaire support channel LTS 50.

LTS K cross-over

St DD





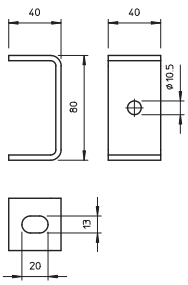
Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
LTS K DD	50	50	1	58.400	6074921

Cross-over, horizontal, for AZ small duct AZK 050 and luminaire support channel LTS 50.

Ceiling bracket

St FT





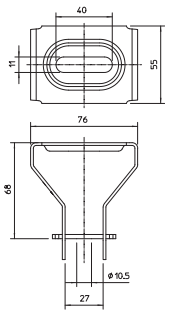
Type	Pack Piece	Weight kg/100 pc.	Item no.
DB FT	20	16.000	6356109

Ceiling bracket for threaded rod suspension.

Ceiling clamp, variable

St FS





Type	Pack Piece	Weight kg/100 pc.	Item no.
DBV FS	20	18.200	6356055

The locked threaded rod seat offers the option of infinite angle adjustment.
Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.

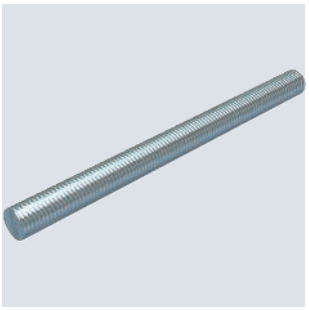
St G

Threaded rod

Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M8 1M G	M8	8	1000	14.6	10	30.000	**3141128**
TR M10 1M G	M10	10	1000	23.2	10	49.000	**3141209**
TR M12 1M G	M12	12	1000	33.7	10	62.000	**3141306**
TR M8 2M G	M8	8	2000	14.6	10	60.000	**3141136**
TR M10 2M G	M10	10	2000	23.2	10	98.000	**3141140**
TR M12 2M G	M12	12	2000	33.7	10	140.000	**3141144**

Threaded rod to DIN 976.



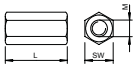


St G

Connection sleeve

Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 G	M8	24	13	50	1.880	**6410081**
CSTR M10 G	M10	30	17	50	4.150	**6410103**
CSTR M12 G	M12	40	19	25	7.000	**6410111**

Connection sleeve with continuous internal thread.





St FS

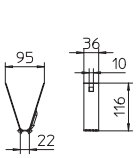
Ceiling bracket, trapezoidal

Type	Material thickness mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 FS	1.5	0.8	20	9.900	**6357506**

Important: Observe the statics of the trapezoidal metal ceiling.

Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.





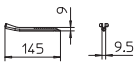
St FS

Splint for trapezoidal ceiling bracket

Type	Material thickness mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB R FS	1.5	0.8	20	3.100	**6357536**

Important: Observe the statics of the trapezoidal metal ceiling.

Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.



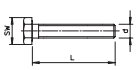


St G

Hexagonal bolt for trapezoidal fastening TPB 100

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x110 G	M 10 x 110	110	10	17	5.6	20	9.500	**6418244**

Hexagonal bolt for mounting trapezoidal fastening TPB 100, with shaft and thread, including hexagonal nut and 2 washers.





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Luminaire support channel

Suspension chain

St G



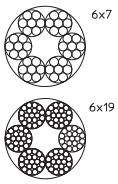
Type	Material thickness mm	Break load kN	Pack m	Weight kg/100 m	Item no.
LTK-K 10 G	2.6	0.9	10	19.000	**6050360**
LTK-K 25 G	2.6	0.9	25	19.000	**6050370**

Suspension chain according to DIN 5686 for suspending luminaire support systems.

Steel wire tensioning rope

St G





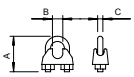
Type	Cable diameter mm	Break load kN	In rings m	Pack m	Weight kg/100 m	Item no.
957 3 G	3	5.29	50	50	3.220	**5303206**

Steel wire tensioning rope, galvanised with fibre inlay (hemp core).
Cable Ø 2–6 mm: round-stranded cable 6 x 7 according to DIN 3055.
Cable Ø 8–10 mm: round-stranded cable 6 x19 according to DIN 3060.
Minimum break force 1770 N/mm².

Wire cable clamp

St G



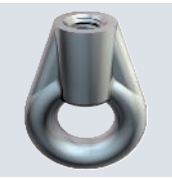


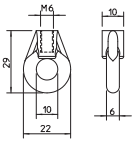
Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Dim. C mm	Pack Piece	Weight kg/100 pc.	Item no.
947 3 G	3	20	4	4	25	1.100	**5302021**

Wire cable clamp for fastening steel wire tensioning ropes.

Ring eyelet

Zn G





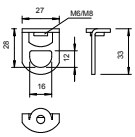
Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2084 K M6	M6	1.15	100	1.500	**3463060**

Ring eyelet with metric internal thread.

TS suspension eyelet

St G



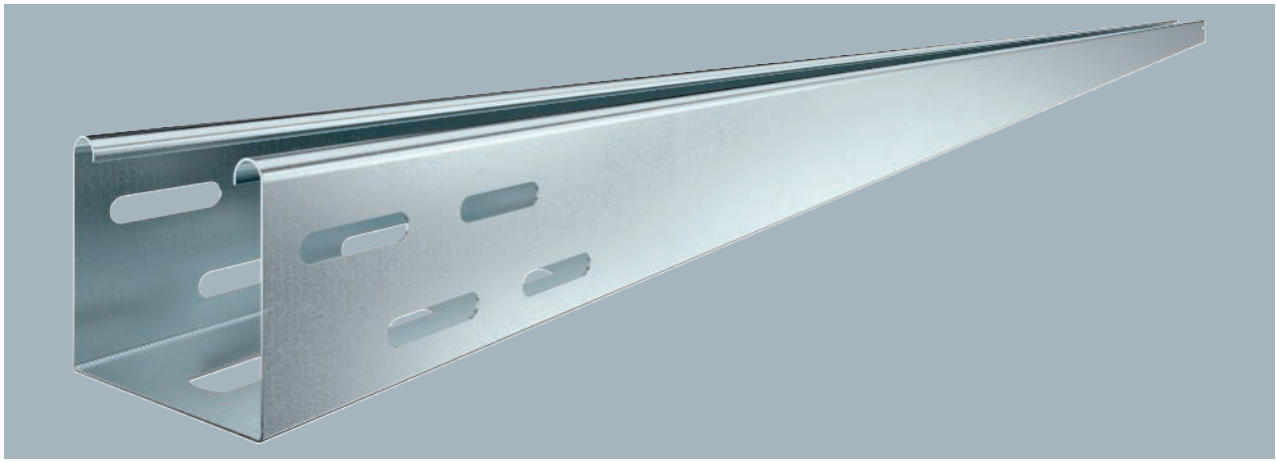


Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2990 M6 G	M6	1.6	50	2.320	**3462862**

Suspension eyelet with interior thread.

St FS

Luminaire support tray

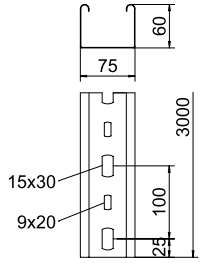


The white version has a visible surface coating.

Luminaire support tray with perforated base for fastening luminaires and cable penetration.

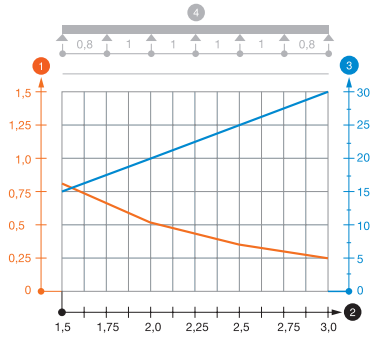
Type	Width mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
LTR 3000 FS	75	0.75	3	125.700	**6055810**
LTR 6000 FS	75	0.75	6	126.020	**6055812**

Dimensions



Type	Length mm	Width mm	Usable cross-section cm²	Metal thickness mm
LTR 3000 FS	3000	75	42	0.75
LTR 6000 FS	6000	75	42	0.75

Load



	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTR 3000 FS	0.8	0.55	0.35	0.25
LTR 6000 FS	0.8	0.55	0.35	0.25

Load diagram, luminaire support tray, type LTR

1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing

— Load curve with cable tray/ladder width in mm

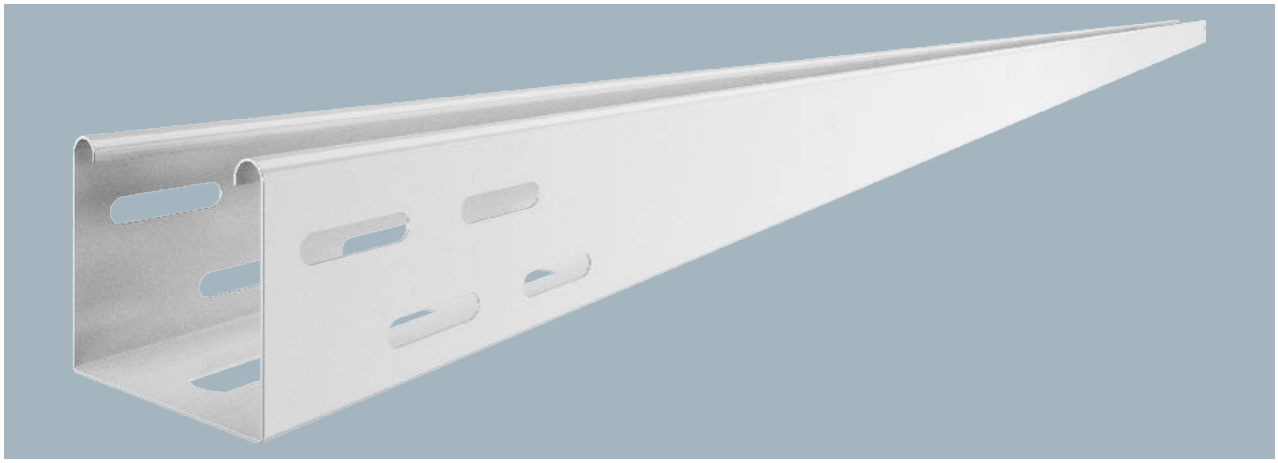
— Strut bend curve according to support width

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Always indicate the item number when ordering.

Luminaire support tray, pure white

St PE50



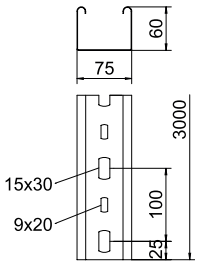
Type	Width mm	Metal thick-ness mm	Colour	Pack m	Weight kg/100 m	Item no.
LTR 6000 FSK RW	75	0.75	Pure white	6	129.500	**6055821**

The luminaire support tray's surface is strip-galvanised and is also powder-coated in white (RAL 9010).

Luminaire support tray with perforated base for fastening luminaires and cable penetration.

Type	Length mm	Width mm	Usable cross-section cm²
LTR 6000 FSK RW	6000	75	42

Dimensions

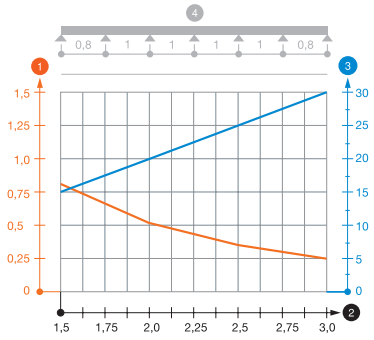


	1.5 m kN/m	2.0 m kN/m	2.5 m kN/m	3.0 m kN/m
LTR 6000 FSK RW	0.8	0.55	0.35	0.25

Load diagram, luminaire support tray, type LTR

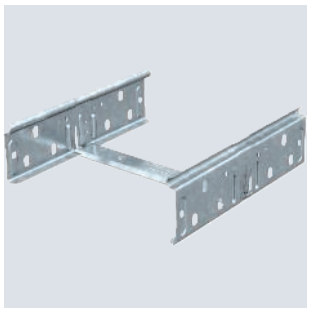
1. Permitted cable tray/ladder load in kN/m without man load
2. Support width in m
3. Rail bend in mm at permitted kN/m
4. Load scheme during testing
- Load curve with cable tray/ladder width in mm
- Strut bend curve according to support width

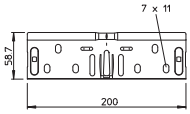
Load



Straight connector set 60

St FS





Type	Side height mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
RV 607 FS	60	75	10	18.800	**6068150**

Quick connector set for straight, screwless connections of cable trays and fittings with a side height of 60 mm.

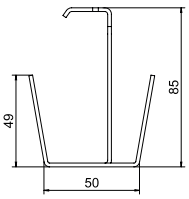
The continuous earthing connection is guaranteed without a screw connection.

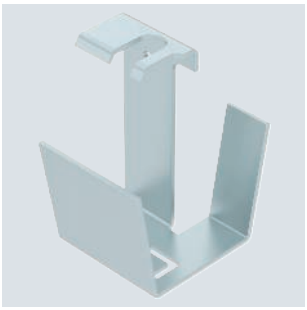
St FS FT

Centre suspension for luminaire support tray

Type	for width mm	For threaded rod	Pack Piece	Weight kg/100 pc.	Item no.
MAH LTR FS	75	M10	25	12.000	**6358810**
MAH LTR FT	75	M10	25	14.000	**6358812**

The central hanger can be used with all cable trays of width 75 mm and side height 60 mm.
Central hanger for luminaire support tray, type LTR, for threaded rod and chain suspension.



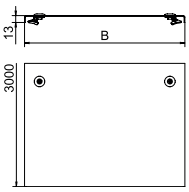


St FS

Cover with turn buckle

Type	Dim. B mm	Metal thick-ness mm	Length mm	Pack m	Weight kg/100 m	Item no.
DRL 075 FS	75	1.00	3000	3	83.340	**6052029**

Transverse bead from 500 mm width.
Cover for cable trays and cable ladders with turn buckles.
When using covers outdoors, additional measures against the influence of wind must be taken.





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Always indicate the item number when ordering.

AZ small duct 50

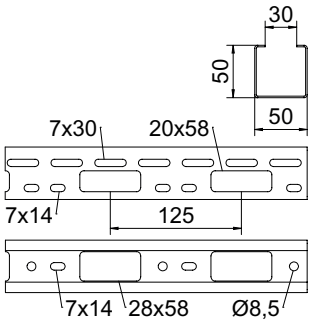
St FS FT



Type	Pack m	Weight kg/100 m	Item no.
AZK 050 FS	3	135.700	**6075096**
AZK 050 FT	3	144.700	**6075142**

AZ channel with a side height of 50 mm.

Dimensions



Type	Length mm	Width mm	Side height mm	Metal thick-ness mm
AZK 050 FS	3000	50	50	1.50

AZ small duct 50

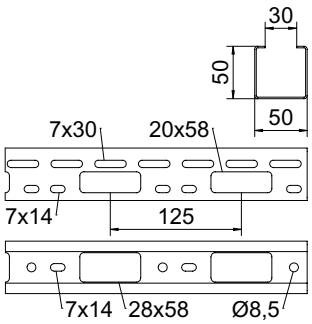
A2 2B



Type	Pack m	Weight kg/100 m	Item no.
AZK 050 A2	3	135.700	**6075150**

AZ channel with a side height of 50 mm.

Dimensions



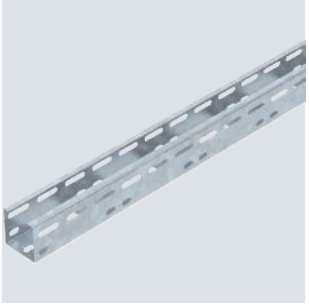
Type	Length mm	Width mm	Side height mm	Metal thick-ness mm
AZK 050 A2	3000	50	50	1.50

St FT

AZ small duct 50

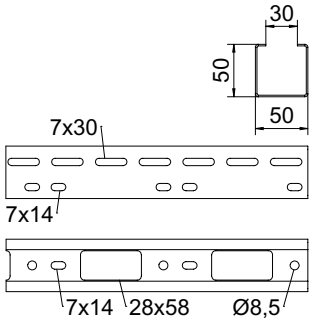
Type		Pack m	Weight kg/100 m	Item no.
AZK A 050 FT		3	165.670	**6076149**

AZ channel with a side height of 50 mm.



Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK A 050 FT	3000	50	50	1.50

Dimensions

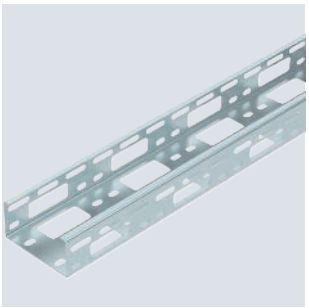


St FS FT

AZ channel 100

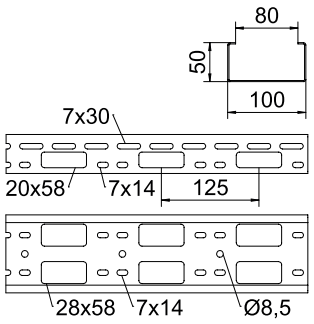
Type		Pack m	Weight kg/100 m	Item no.
AZK 100 FS		3	176.940	**6075231**
AZK 100 FT		3	188.670	**6075258**

AZ channel with a side height of 50 mm.



Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 100 FS	3000	100	50	1.50

Dimensions

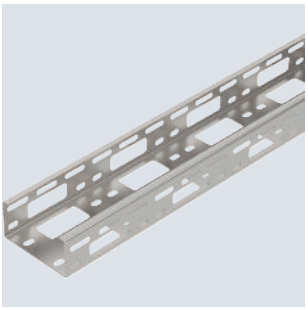


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Always indicate the item number when ordering.

AZ channel 100

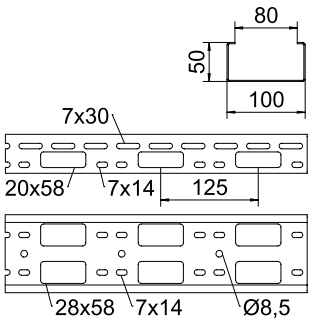
A2 2B



Type	Pack m	Weight kg/100 m	Item no.
AZK 100 A2	3	176.934	**6075304**

AZ channel with a side height of 50 mm.

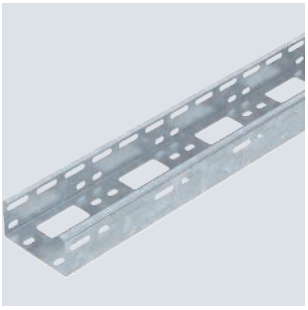
Dimensions



Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 100 A2	3000	100	50	1.50

AZ channel 100

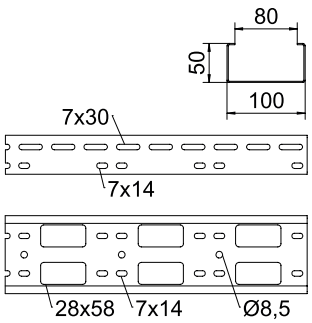
St FT



Type	Pack m	Weight kg/100 m	Item no.
AZK A 100 FT	3	212.000	**6076246**

AZ channel with a side height of 50 mm.

Dimensions



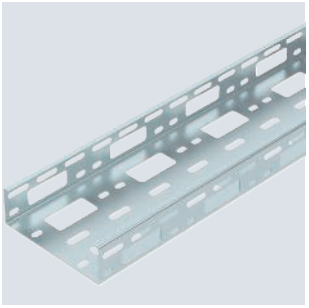
Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK A 100 FT	3000	100	50	1.50

St FS FT

AZ small duct 150

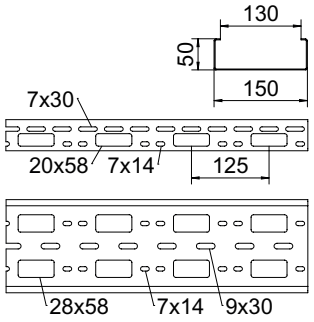
Type		Pack m	Weight kg/100 m	Item no.
AZK 150 FS		3	231.670	**6075320**
AZK 150 FT		3	245.670	**6075325**

AZ channel with a side height of 50 mm.



Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 150 FS	3000	150	50	1.50

Dimensions

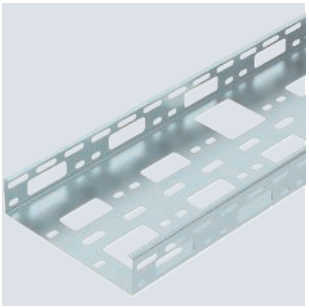


St FS FT

AZ small duct 200

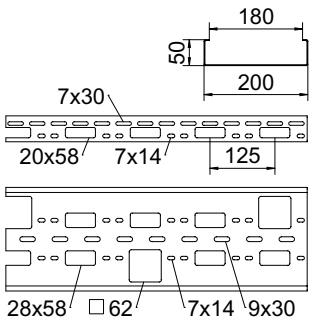
Type		Pack m	Weight kg/100 m	Item no.
AZK 200 FS		3	280.340	**6075345**
AZK 200 FT		3	296.000	**6075350**

AZ channel with a side height of 50 mm.



Type	Length mm	Width mm	Side height mm	Metal thickness mm
AZK 200 FS	3000	200	50	1.50

Dimensions

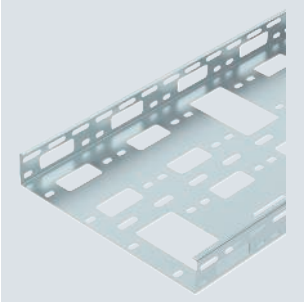


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Always indicate the item number when ordering.

AZ small duct 300

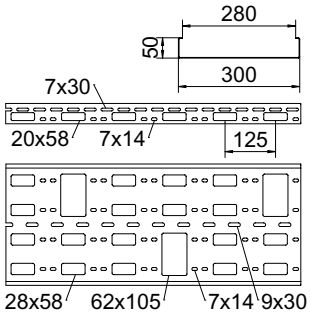
St FS FT



Type	Pack m	Weight kg/100 m	Item no.
AZK 300 FS	3	359.340	**6075370**
AZK 300 FT	3	381.000	**6075375**

AZ channel with a side height of 50 mm.

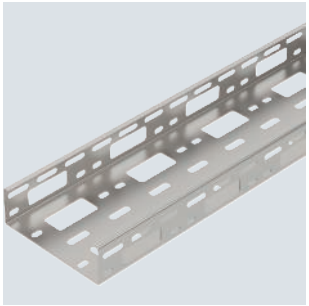
Dimensions



Type	Length mm	Width mm	Side height mm	Metal thick-ness mm
AZK 300 FS	3000	300	50	1.50

AZ small duct 150

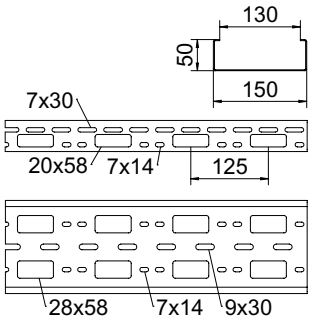
A2 2B



Type	Pack m	Weight kg/100 m	Item no.
AZK 150 A2	3	231.660	**6075330**

AZ channel with a side height of 50 mm.

Dimensions



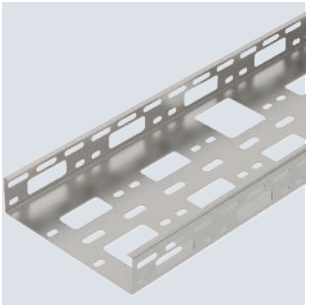
Type	Length mm	Width mm	Side height mm	Metal thick-ness mm
AZK 150 A2	3000	150	50	1.50

A2 2B

AZ small duct 200

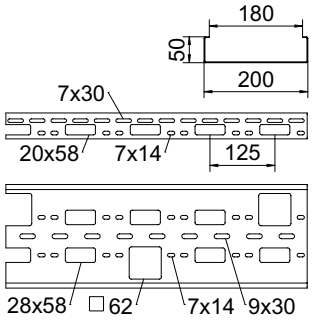
Type		Pack m	Weight kg/100 m	Item no.
AZK 200 A2		3	280.340	6075355

AZ channel with a side height of 50 mm.



Type	Length mm	Width mm	Side height mm	Metal thick-ness mm
AZK 200 A2	3000	200	50	1.50

Dimensions

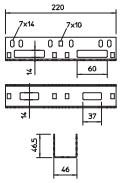


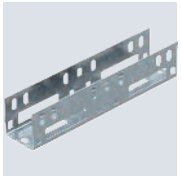
St FS DD

Straight connector 50

Type		Pack Piece	Weight kg/100 pc.	Item no.
VF AZK 50 FS		25	27.100	6066615
VF AZK 50 DD		25	27.100	6066623

An adjustable connector can be created using two straight and angle connectors.
Straight connector for connection of luminaire support channels and AZ channels.



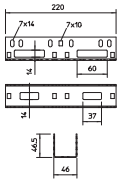


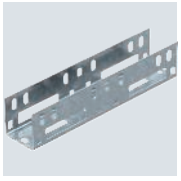
A2 2B

Straight connector 50

Type		Pack Piece	Weight kg/100 pc.	Item no.
VF AZK 50 A2		25	27.400	6066629

An adjustable connector can be created using two straight and angle connectors.
Straight connector for connection of luminaire support channels and AZ channels.



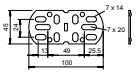


St FT

Straight and angle connector 50

Type		Pack Piece	Weight kg/100 pc.	Item no.
VF AZK FT		25	7.656	6066550

An adjustable connector can be created using two straight and angle connectors. Scope of delivery including bolts with combination nuts.
Straight and angle connector for connection of AZ channels.





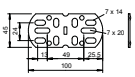
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Always indicate the item number when ordering.

Straight and angle connector 50

A2 2B





Type		Pack Piece	Weight kg/100 pc.	Item no.
VF AZK A2		10	7.746	**6066569**

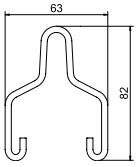
An adjustable connector can be created using two straight and angle connectors. Scope of delivery includes bolts and nuts.

Straight and angle connector for connection of AZ channels.

Suspension bracket 50

St F





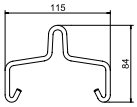
Type	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
AHB 50 D4 FT	0.35		50	1.985	**6066505**

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 50, and the AZ small duct, type AZK 50.

Suspension bracket 100

St F





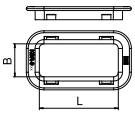
Type	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
AHB 100 D5 FT	0.6		50	4.060	**6066510**

Suspension bracket for chain or steel wire tensioning rope fastening of the luminaire support rail, type LTS 100, and the AZ small duct, type AZK 100.

915 cable protection ring

PE





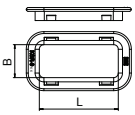
Type	Colour	for perforation mm		Pack Piece	Weight kg/100 pc.	Item no.
KSR-915 PE	Light grey	28 x 58		25	0.520	**6066704**

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.

DR 910 cable protection ring

PE





Type	Colour	for perforation mm		Pack Piece	Weight kg/100 pc.	Item no.
KSR-910 PE	Light grey	20 x 58		25	0.470	**6066712**

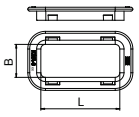
Cable protection ring for bottom perforation in cable trays of type IKS and for side perforation in AZ small ducts and luminaire support channel.

PE

Cable protection ring 920

Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-920 PE	Light grey	62 x 62	25	0.669	6066696

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.



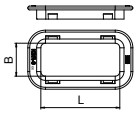


PE

Cable protection ring 925

Type	Colour	for perforation mm	Pack Piece	Weight kg/100 pc.	Item no.
KSR-925 PE	Light grey	105 x 62	25	1.040	6066688

Cable protection ring for bottom perforations in AZ small ducts and luminaire support channels.





St FS

Cover with turn buckle

Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 FS	53	3000	3	55.000	6080138
AZDMD 100 FS	103	3000	3	97.767	6080227
AZDMD 150 FS	153	3000	3	137.040	6080860
AZDMD 200 FS	203	3000	3	172.330	6080885
AZDMD 300 FS	303	3000	3	254.770	6080910

Cover with turn buckle for AZ small duct.





St FT DD

Cover with turn buckle

Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 DD	53	3000	3	58.340	6080154
AZDMD 100 DD	103	3000	3	101.700	6080235
AZDMD 150 FT	153	3000	3	153.070	6080865
AZDMD 200 FT	203	3000	3	197.000	6080890
AZDMD 300 FT	303	3000	3	284.867	6080915

Cover with turn buckle for AZ small duct.





A2 2B

Cover with turn buckle

Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDMD 50 A2	53	3000	3	57.200	6080197
AZDMD 100 A2	103	3000	3	99.933	6080294
AZDMD 150 A2	153	3000	3	139.200	6080870
AZDMD 200 A2	203	3000	3	178.470	6080895

Cover with turn buckle for AZ small duct.





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Always indicate the item number when ordering.

Cover

St DD





Type	Width mm	Length mm	Pack m	Weight kg/100 m	Item no.
AZDU 50 DD	53	3000	3	54.200	**6080158**
AZDU 100 DD	103	3000	3	93.433	**6080239**

Cover without turn buckles for AZ small duct.

Turn buckle 50

St FT





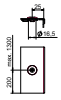
Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
AZDR 50 FT	50	20	1.700	**6065112**

Turn buckle for installation in the cover for AZ channel and BKK system at a later date.

Turn buckle 100

St FT





Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
AZDR 100 FT	100	20	1.100	**6065104**

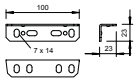
Turn buckle for installation in the cover for AZ small ducts and BKK system at a later date.

BKK system

SSV joint connector

St FT





Type	Metal thickness mm	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
SSV FT	2.00	23 x 23 x 100	25	8.700	**6066046**

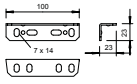
Including appropriate fastening material.

Joint connector for horizontal connection of BKK basic profiles.

SSV joint connector

A2 2B





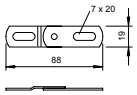
Type	Metal thickness mm	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
SSV A2	2.00	23 x 23 x 100	25	9.800	**6066054**

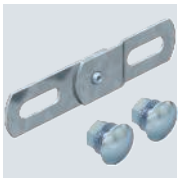
Joint connector for horizontal connection of BKK basic profiles.

St DD

SV hinge connector

Type	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SV DD	2.00	50	3.300	6066941



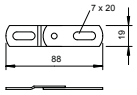


Including appropriate fastening material.
Adjustable connector for vertical bend connections of BKK systems.

A2 2B

SV hinge connector

Type	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
SV A2	2.00	50	4.800	6066933





Hinge connector for vertical connections of BKK systems.

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Selection aid

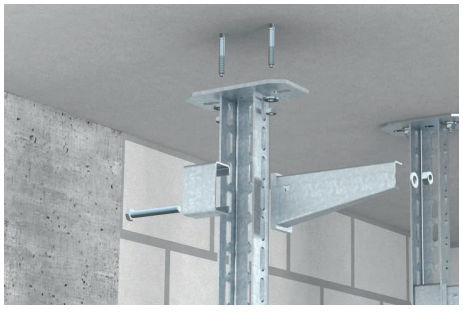
Support and bracket combinations

Bracket arrangement, one-sided

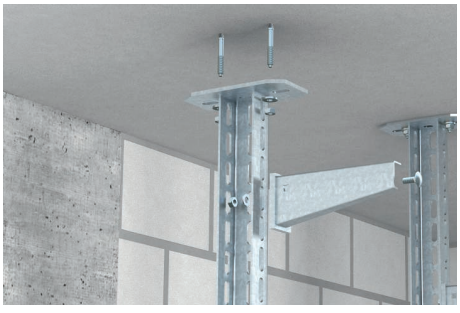
		Support length / Bracket	US 3 K		US 5 K		US 7 K	
								
			200 – 600	700 – 1200	200 – 600	700 – 1200	200 – 600	700 – 1200
MWA12 ...		100	–	DSK25	–	DSK45	–	–
		200	–	DSK25	–	DSK45	–	–
		300	–	DSK25	–	DSK45	–	–
		400	DSK25	DSK25	DSK45	DSK45	DSK61	DSK61
AW 15 ...		100	–	DSK25	–	DSK45	–	–
		200	–	DSK25	–	DSK45	–	–
		300	–	DSK25	–	DSK45	–	–
		400	DSK25	DSK25	DSK45	DSK45	DSK61	DSK61
		500			DSK45*	DSK45*	DSK61	DSK61
		600			DSK45*	DSK45*	DSK61	DSK61
AW 30 ...		100			DSK45	DSK45	–	–
		200			DSK45	DSK45	–	–
		300			DSK45*	DSK45*	–	–
		400			DSK45*	DSK45*	DSK61	DSK61
		500					DSK61	DSK61
		600					DSK61	DSK61
		700					DSK61	DSK61
AW 55 ...		200			DSK45**	DSK45**	DSK61	DSK61
		300			DSK45**	DSK45**	DSK61	DSK61
		400			DSK45**	DSK45**	DSK61*	DSK61*
		500					DSK61*	DSK61*
		600					DSK61*	DSK61*
		700					DSK61*	DSK61*

- No DSK required
 * Observe the overall load, adapt the support distances, refer to the load tables in the catalogue
** Only use with maintenance of electrical function

A spacer must always be used for support lengths > 600 mm and bracket arrangements at the bottom end of the support.



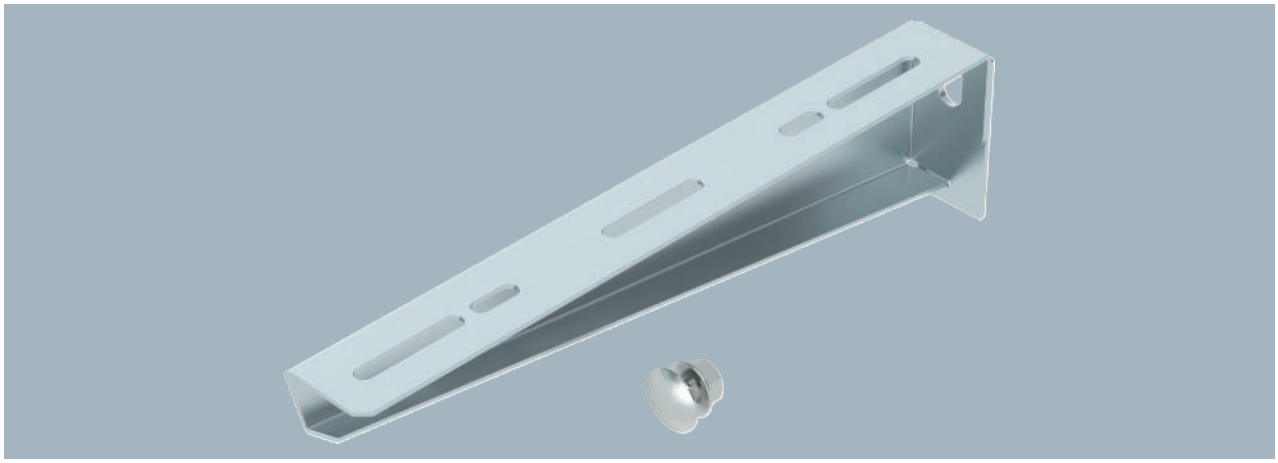
With DSK (spacer)



Without DSK (spacer)

St FS

Wall and support bracket MWA 12

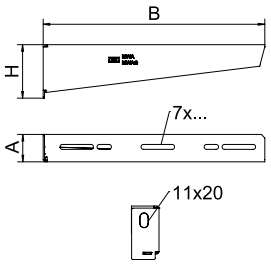


Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket.

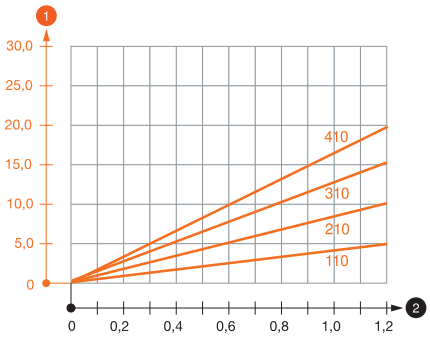
Type	Width mm	F in kN	BS		Pack Piece	Weight kg/100 pc.	Item no.
MWA 12 11S FS	110	1.2			1	16.400	**6424716**
MWA 12 21S FS	210	1.2			1	26.700	**6424732**
MWA 12 31S FS	310	1.2			1	50.300	**6424740**
MWA 12 41S FS	410	1.2			1	68.000	**6424759**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
MWA 12 11S FS	110	32.5	53	11
MWA 12 21S FS	210	32.5	65	11
MWA 12 31S FS	310	38	75	11
MWA 12 41S FS	410	38	83	11

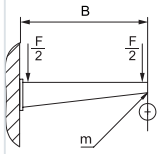
Load



Load diagram, bracket, type MWA 12

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Load characteristics wall and support bracket MWA 12

Item on test	Force F (SWL)	Width B
MWA 12 11S FS	1.2 kN	110 mm
MWA 12 21S FS	1.2 kN	210 mm
MWA 12 31S FS	1.2 kN	310 mm
MWA 12 41S FS	1.2 kN	410 mm

Deformation measurement point m
According to IEC 61537, chapter 10.8.1

Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall and support bracket MWA 12

	Wall fastening			
	Max. load [kN]			
	Bracket width [mm]			
Anchor type	110	210	310	410
BZ3 10x90/0-30	1,20	1,20	1,20	1,20

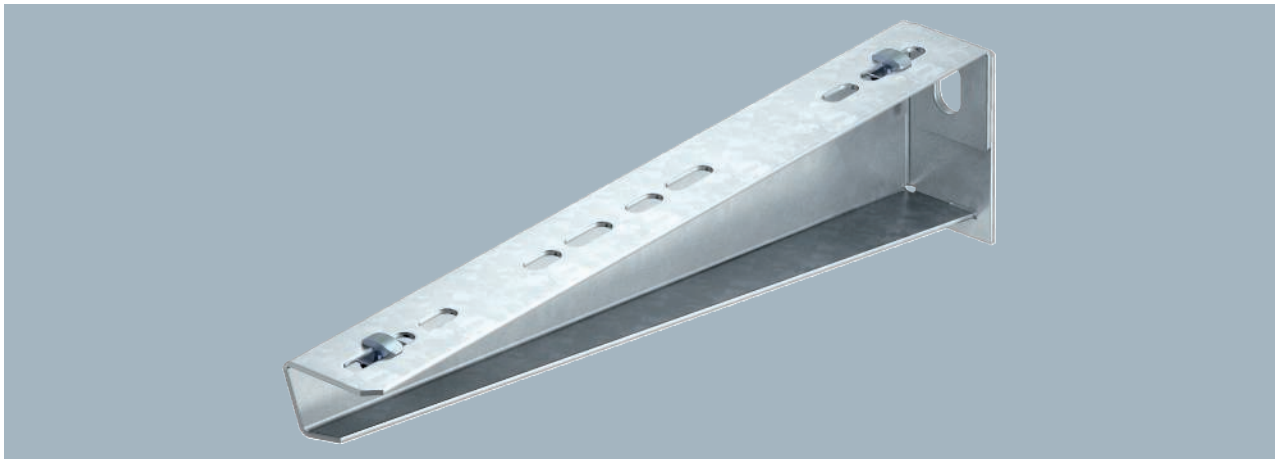
Load values for MWA 12 on suspended support

	Max. total load F in kN			
	Bracket length in mm			
Support	100	200	300	400
US 3 K/ 20-60	1,20	1,20	1,20	1,20
US 3 K/ 70-120	1,20	1,20	1,20	1,20
US 5 K/ 20-60	1,20	1,20	1,20	1,20
US 5 K/ 70-120	1,20	1,20	1,20	1,20

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Wall and support bracket MWAM 12

St FS



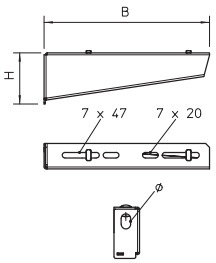
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MWAM 12 11 FS	110	1.2	1	19.500	**6424550**
MWAM 12 21 FS	210	1.2	1	26.000	**6424552**
MWAM 12 31 FS	310	1.2	1	51.900	**6424554**
MWAM 12 41 FS	410	1.2	1	69.700	**6424556**

Wall and support bracket MWAM.. including:
1. Two pre-mounted quick connectors for efficient cable tray fastening.
2. Truss-head bolt M10 x 25 for fastening on the U support.

Light-duty wall and support bracket including quick connector for use with cable trays of type RKSM.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
MWAM 12 11 FS	110	32.5	53	11
MWAM 12 21 FS	210	32.5	65	11
MWAM 12 31 FS	310	38	75	11
MWAM 12 41 FS	410	38	83	11

Dimensions

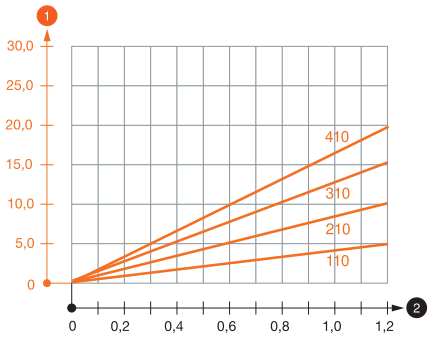


Load

Load diagram, bracket type MWAM 12

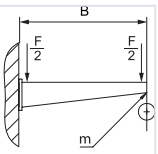
1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic load values for MWAM 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAM 12 11 FS	1.2 kN	110 mm
MWAM 12 21 FS	1.2 kN	210 mm
MWAM 12 31 FS	1.2 kN	310 mm
MWAM 12 41 FS	1.2 kN	410 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall and support bracket MWAM 12

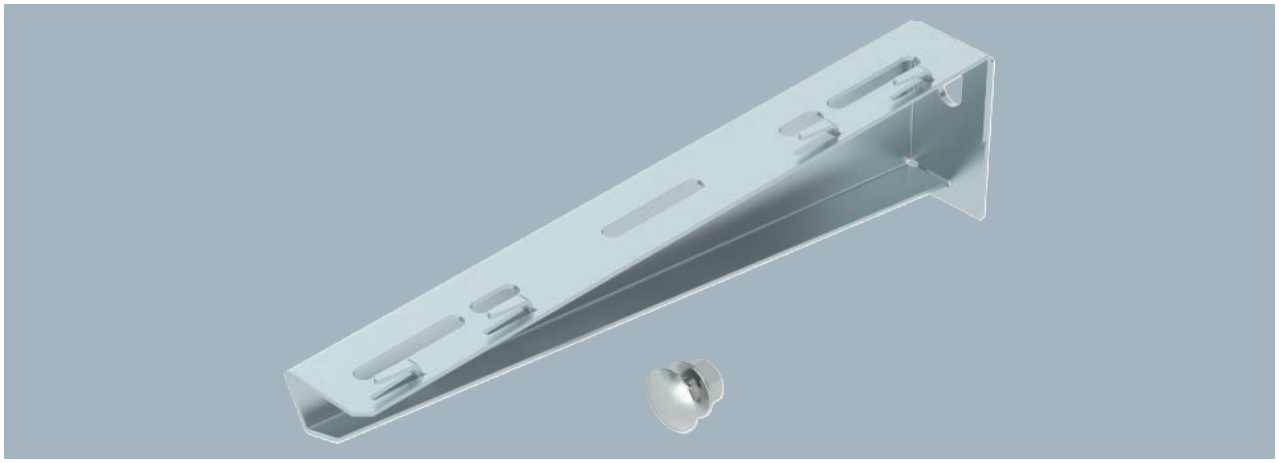
Wall fastening					
		Max. load [kN]			
		Bracket width [mm]			
	Anchor type	110	210	310	410
	BZ3 10x90/0-30	1,20	1,20	1,20	1,20

Load values for MWAM 12 on support

Max. total load F in kN					
		Bracket length in mm			
	Support	100	200	300	400
	US 3 K/ 20 - 60	1,20	1,20	1,20	1,20
	US 3 K/ 70 - 120	1,20	1,20	1,20	1,20
	US 5 K/ 20 - 60	1,20	1,20	1,20	1,20
	US 5 K/ 70 - 120	1,20	1,20	1,20	1,20

St FS

Wall and support bracket MWAG 12

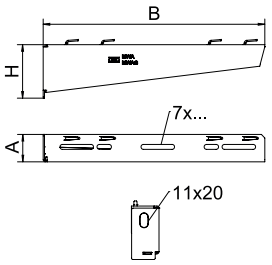


Including truss-head bolt M10 x 25 for fastening to U supports.

Light-duty wall and support bracket with edged design for screw-less mesh cable tray fastening.

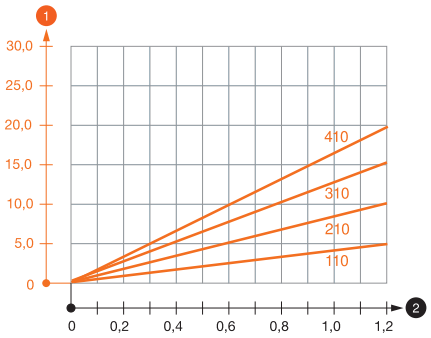
Type	Width mm	F in kN		Pack Piece	Weight kg/100 pc.	Item no.
MWAG 12 11 FS	110	1.2		1	12.700	**6424600**
MWAG 12 21 FS	210	1.2		1	24.400	**6424608**
MWAG 12 31 FS	310	1.2		1	50.300	**6424616**
MWAG 12 41 FS	410	1.2		1	68.000	**6424624**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
MWAG 12 11 FS	110	32.5	53	11
MWAG 12 21 FS	210	32.5	65	11
MWAG 12 31 FS	310	38	75	11
MWAG 12 41 FS	410	38	83	11

Load

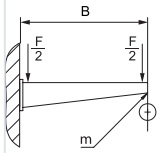


1.2	310

Load diagram, bracket type MWAG 12

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic load values for MWAG 12 wall and support bracket

Item on test	Force F (SWL)	Width B
MWAG 12 11 FS	1.2 kN	110 mm
MWAG 12 21 FS	1.2 kN	210 mm
MWAG 12 31 FS	1.2 kN	310 mm
MWAG 12 41 FS	1.2 kN	410 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall and support bracket MWAG 12



	Wall fastening			
	Max. load [kN]			
	Bracket width [mm]			
Anchor type	110	210	310	410
BZ3 10x90/0-30	1,20	1,20	1,20	1,20

Load values for MWAG 12 on suspended support

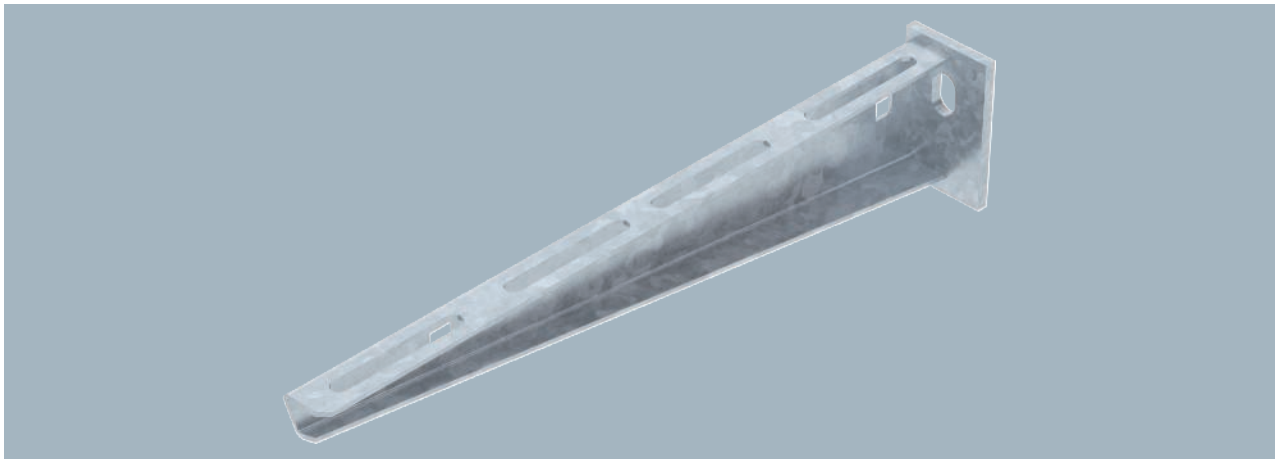


	Max. total load F in kN			
	Bracket length in mm			
Support	100	200	300	400
US 3 K/ 20 - 60	1,20	1,20	1,20	1,20
US 3 K/ 70 - 120	1,20	1,20	1,20	1,20
US 5 K/ 20 - 60	1,20	1,20	1,20	1,20
US 5 K/ 70 - 120	1,20	1,20	1,20	1,20

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Wall and support bracket AW 15

St FT



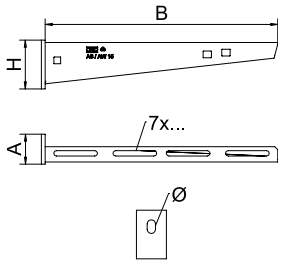
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 FT	110	1.5	1	13.100	**6420656**
AW 15 16 FT	160	1.5	1	20.000	**6420664**
AW 15 21 FT	210	1.5	1	24.000	**6420680**
AW 15 31 FT	310	1.5	1	38.400	**6420710**
AW 15 41 FT	410	1.5	1	54.000	**6420745**
AW 15 51 FT	510	1.5	1	67.300	**6420788**
AW 15 56 FT	560	1.5	1	77.000	**6420796**
AW 15 61 FT	610	1.5	1	85.000	**6420826**

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

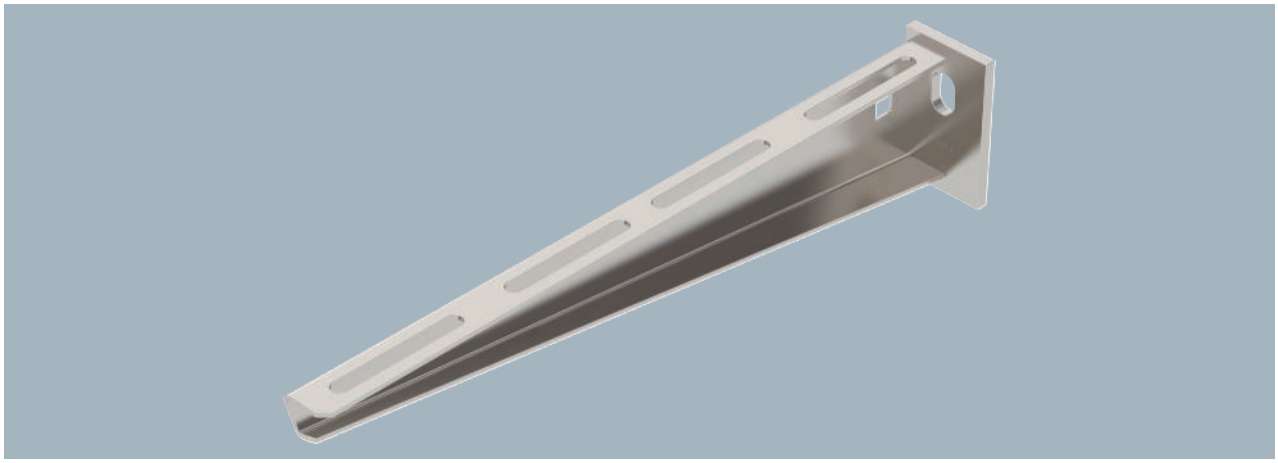
Type	Dim. B mm	Dim. A mm	Dim. H mm
AW 15 11 FT	110	40	50
AW 15 16 FT	160	40	55
AW 15 21 FT	210	40	60
AW 15 31 FT	310	40	65
AW 15 41 FT	410	40	70
AW 15 51 FT	510	40	75
AW 15 56 FT	560	40	80
AW 15 61 FT	610	40	80

Dimensions



A2 2B

Wall and support bracket AW 15

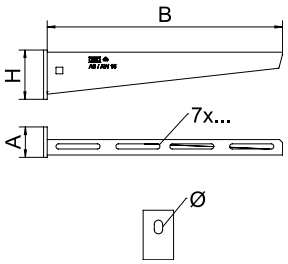


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate.

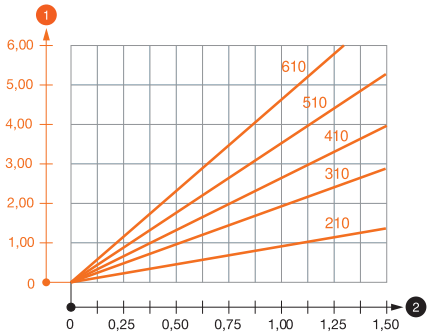
Type	Width mm	F in kN	Pack Piece	Weight kg/100 pc.	Item no.
AW 15 11 A2	110	1.5	1	12.500	**6421008**
AW 15 21 A2	210	1.5	1	24.000	**6421024**
AW 15 31 A2	310	1.5	1	38.200	**6421032**
AW 15 41 A2	410	1.5	1	55.000	**6421036**
AW 15 51 A2	510	1.5	1	64.400	**6421040**
AW 15 61 A2	610	1.5	1	85.000	**6421044**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 15 11 A2	110	40	50	11
AW 15 21 A2	210	40	60	11
AW 15 31 A2	310	40	65	11
AW 15 41 A2	410	40	70	11
AW 15 51 A2	510	40	75	11
AW 15 61 A2	610	40	80	11

Load

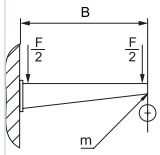


Load diagram, bracket AW 15 VA

1 Bending of the bracket tip at permitted bracket load

2 Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

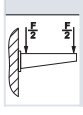


Characteristic anchor load values for wall bracket AW 15 - wall fastening

Item on test	Force F (SWL)	Length L
AW 15 11 A2	0.15 kN	110 mm
AW 15 21 A2	0.15 kN	210 mm
AW 15 31 A2	0.15 kN	310 mm
AW 15 41 A2	0.15 kN	410 mm
AW 15 51 A2	0.15 kN	510 mm
AW 15 61 A2	0.15 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall bracket AW 15

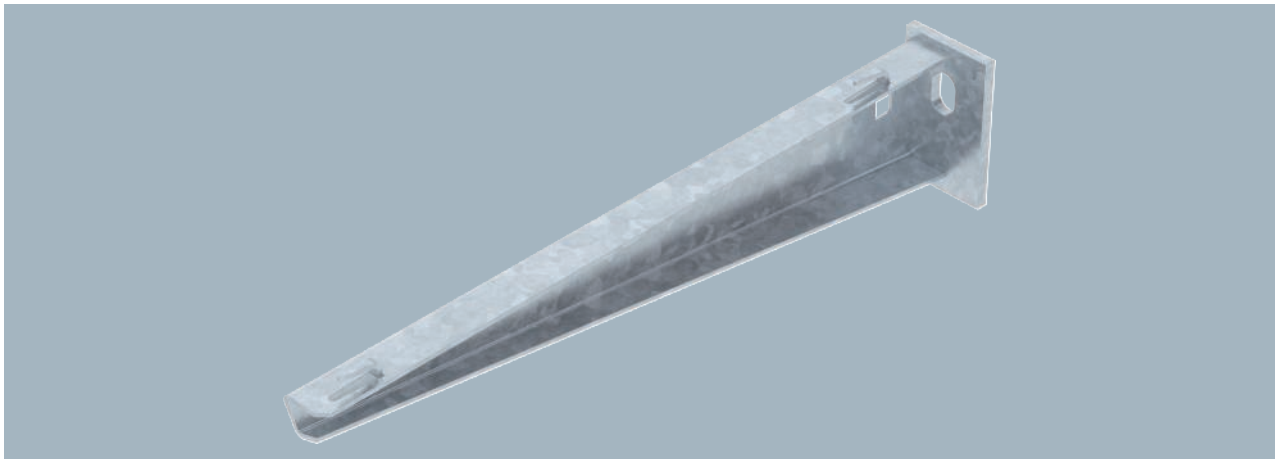


Wall fastening						
	Max. load [kN]					
	Bracket width [mm]					
Anchor type	110	160	210	310	410	510
BZ3 10x90/0-30	1,50	1,50	1,50	1,47	1,25	1,13

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Wall and support bracket AWG 15

St FT



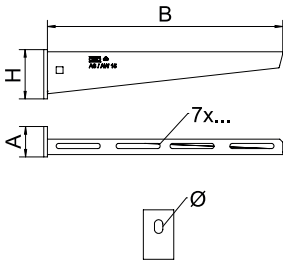
Type	Width mm	F in kN kN			Pack Piece	Weight kg/100 pc.	Item no.
AW G 15 11 FT	110	1.5			1	14.000	**6420606**
AW G 15 16 FT	160	1.5			1	20.000	**6420607**
AW G 15 21 FT	210	1.5			1	26.000	**6420608**
AW G 15 31 FT	310	1.5			1	35.000	**6420610**
AW G 15 41 FT	410	1.5			1	56.000	**6420612**
AW G 15 51 FT	510	1.5			1	69.000	**6420614**
AW G 15 61 FT	610	1.5			1	84.000	**6420616**

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW G 15 11 FT	110	40	50	11
AW G 15 16 FT	160	40	55	11
AW G 15 21 FT	210	40	60	11
AW G 15 31 FT	310	40	65	11
AW G 15 41 FT	410	40	70	11
AW G 15 51 FT	510	40	75	11
AW G 15 61 FT	610	40	80	11

Dimensions



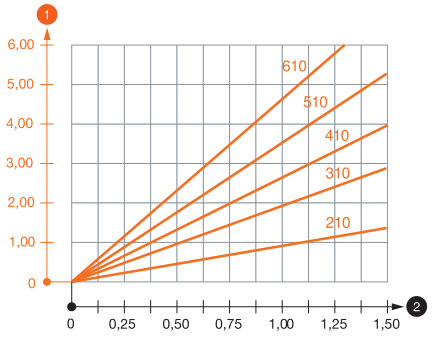
Load

Load diagram, bracket type AW G 15

1 Bending of the bracket tip at permitted bracket load

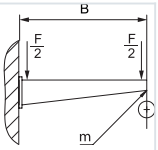
2 Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for wall bracket AWG 15 – wall fastening

Item on test	Force F (SWL)	Width B
AWG 15 11 FT	0.15 kN	110 mm
AWG 15 16 FT	0.15 kN	160 mm
AWG 15 21 FT	0.15 kN	210 mm
AWG 15 31 FT	0.15 kN	310 mm
AWG 15 41 FT	0.15 kN	410 mm
AWG 15 51 FT	0.15 kN	510 mm
AWG 15 61 FT	0.15 kN	610 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall and support bracket AW G 15



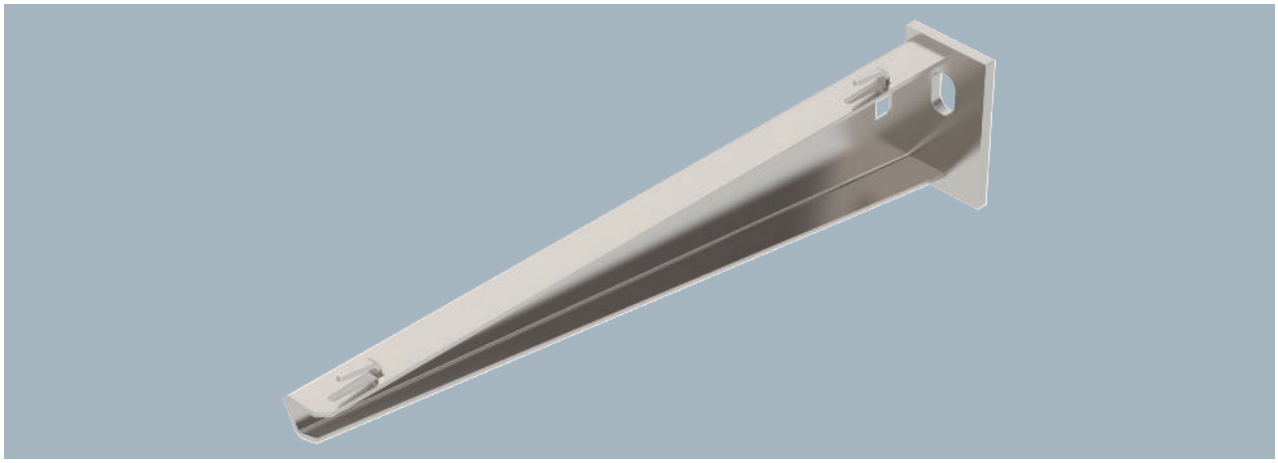
	Wall fastening							
	Max. load [kN]							
	Bracket width [mm]							
Anchor type	110	160	210	310	410	510	560	610
BZ3 10x90/0-30	1,50	1,50	1,50	1,47	1,25	1,13	0,95	0,94

Load values for AWG 15 on support

	Max. total load F in kN			
	Bracket length in mm			
Support	100	200	300	400
US 3 K/ 20 - 60	1,50	1,50	1,30	1,30
US 3 K/ 70 - 120	1,50	1,50	1,30	1,30
US 5 K/ 20 - 60	1,50	1,50	1,50	1,50
US 5 K/ 70 - 120	1,50	1,50	1,40	1,50

A2 2B

Wall and support bracket AWG 15

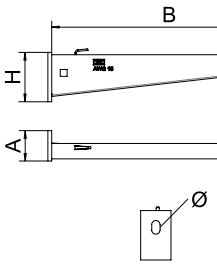


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

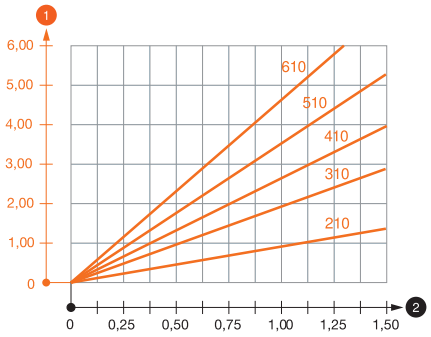
Type	Width mm	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
AWG 15 11 A2	110	1.5		1	13.000	**6420625**
AWG 15 21 A2	210	1.5		1	25.000	**6420628**
AWG 15 41 A2	410	1.5		1	53.000	**6420634**

Dimensions



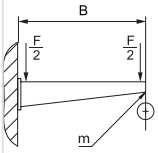
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWG 15 11 A2	110	40	50	11
AWG 15 21 A2	210	40	60	11
AWG 15 41 A2	410	40	70	11

Load



Load diagram, bracket type AW G 15

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm



Characteristic anchor load values for wall bracket AWG 15 - wall fastening

Item on test	Force F (SWL)	Length L
AWG 15 11 A2	0.15 kN	110 mm
AWG 15 21 A2	0.15 kN	210 mm
AWG 15 31 A2	0.15 kN	310 mm
AWG 15 41 A2	0.15 kN	410 mm
AWG 15 51 A2	0.15 kN	510 mm
AWG 15 61 A2	0.15 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

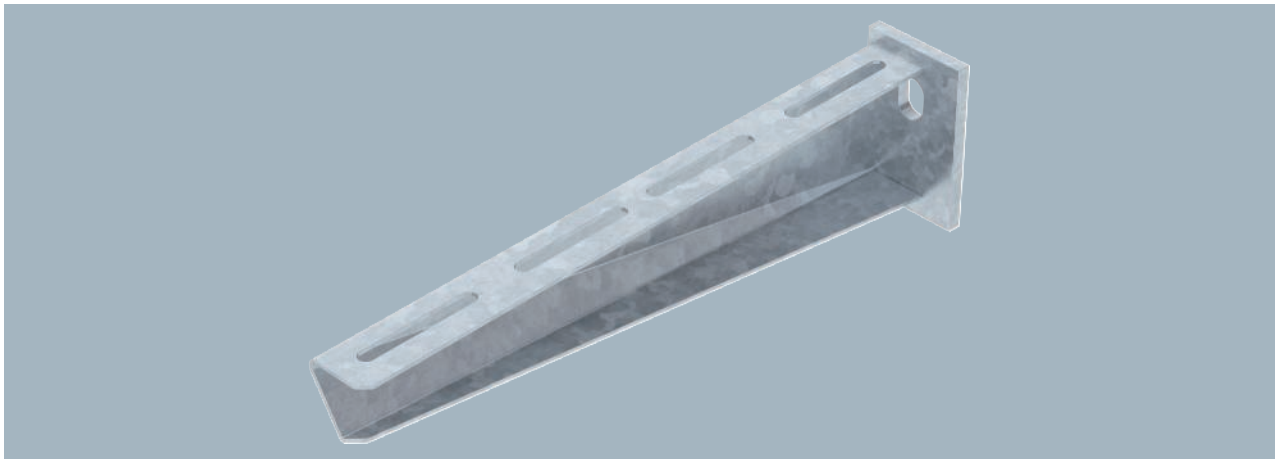
Characteristic anchor load values for wall and support bracket AW G 15

Wall fastening								
	Max. load [kN]							
	Bracket width [mm]							
Anchor type	110	160	210	310	410	510	560	610
BZ3 10x90/0-30	1,50	1,50	1,50	1,47	1,25	1,13	0,95	0,94

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Wall and support bracket AW 30

St FT



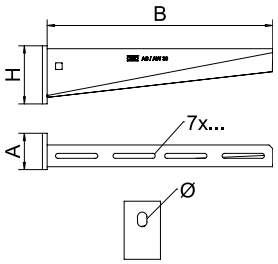
Type	Width mm	F in kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
AW 30 11 FT	110	3		1	22.000	**6419704**
AW 30 16 FT	160	3		1	33.000	**6419712**
AW 30 21 FT	210	3		1	39.300	**6419720**
AW 30 31 FT	310	3		1	63.000	**6419747**
AW 30 41 FT	410	3		1	88.500	**6419763**
AW 30 51 FT	510	3		1	129.000	**6419798**
AW 30 61 FT	610	3		1	157.000	**6419828**

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 30 11 FT	110	50	60	11
AW 30 16 FT	160	50	65	11
AW 30 21 FT	210	50	70	13
AW 30 31 FT	310	50	80	13
AW 30 41 FT	410	50	80	13
AW 30 51 FT	510	50	90	13
AW 30 61 FT	610	50	100	13

Dimensions



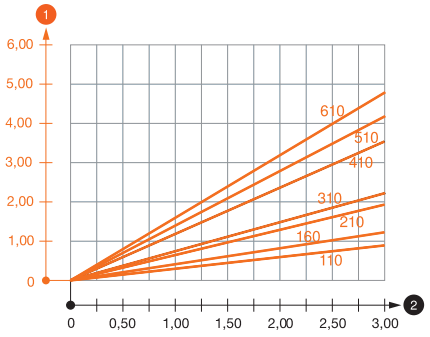
Load

Load diagram, bracket, type AW 30

1 Bending of the bracket tip at permitted bracket load

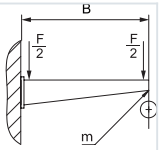
2 Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 FT	3 kN	110 mm
AW 30 16 FT	3 kN	160 mm
AW 30 21 FT	3 kN	210 mm
AW 30 31 FT	3 kN	310 mm
AW 30 41 FT	3 kN	410 mm
AW 30 51 FT	3 kN	510 mm
AW 30 61 FT	3 kN	610 mm
AW 30 71 FT	3 kN	710 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1

Max. total load F = cable weight + cable tray + bracket

Characteristic anchor load values for wall and support bracket AW 30

Wall fastening



Anchor type	Max. load [kN] Bracket width [mm] 110	160	210	310	410	510	560	610	710
BZ3 10x90/0-30	3,00	2,10	-	-	-	-	-	-	-
BZ3 12x110/0-35	-	-	3,00	2,71	2,07	2,02	1,98	1,98	1,51

Load values for AW 30 on suspended support

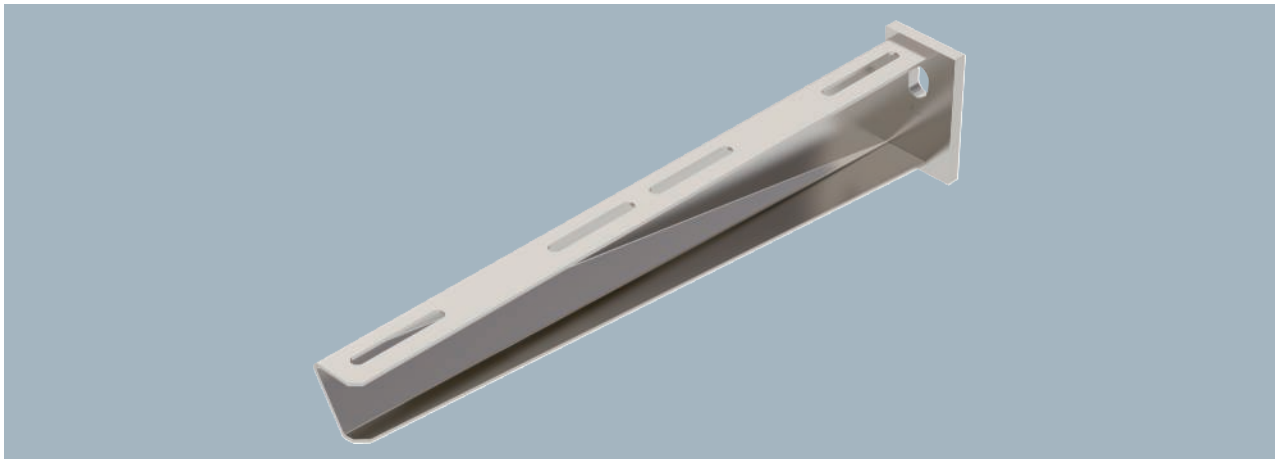
Max. total load F in kN



Support	Bracket length in mm 100	200	300	400
US 3 K/ 20 - 60	2,10	1,80	1,30	1,30
US 3 K/ 70 - 120	1,80	1,50	1,30	1,30
US 5 K/ 20 - 60	2,40	2,00	1,80	2,50
US 5 K/ 70 - 120	2,40	2,00	1,40	2,50

A2 2B

Wall and support bracket AW 30

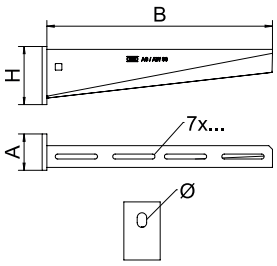


Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Medium-duty wall and support bracket with welded head plate.

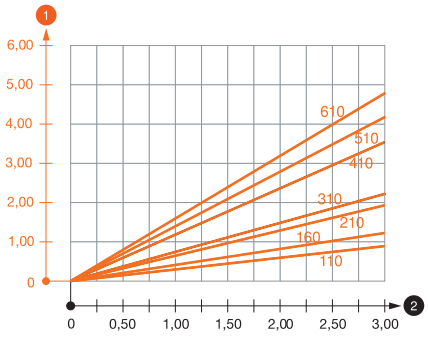
Type	Width mm	F in kN		Pack Piece	Weight kg/100 pc.	Item no.
AW 30 11 A2	110	3		1	21.000	**6442803**
AW 30 21 A2	210	3		1	37.500	**6442838**
AW 30 31 A2	310	3		1	60.500	**6442854**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 30 11 A2	110	50	60	11
AW 30 21 A2	210	50	70	13
AW 30 31 A2	310	50	80	13

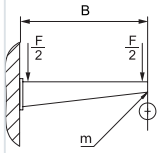
Load



Load diagram, bracket AW 30 VA

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for wall bracket AW 30 - wall fastening

Item on test	Force F (SWL)	Width B
AW 30 11 A2	3 kN	110 mm
AW 30 21 A2	3 kN	210 mm
AW 30 31 A2	3 kN	310 mm
AW 30 41 A2	3 kN	410 mm
AW 30 51 A2	3 kN	510 mm
AW 30 61 A2	3 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall and support bracket AW 30

Wall fastening

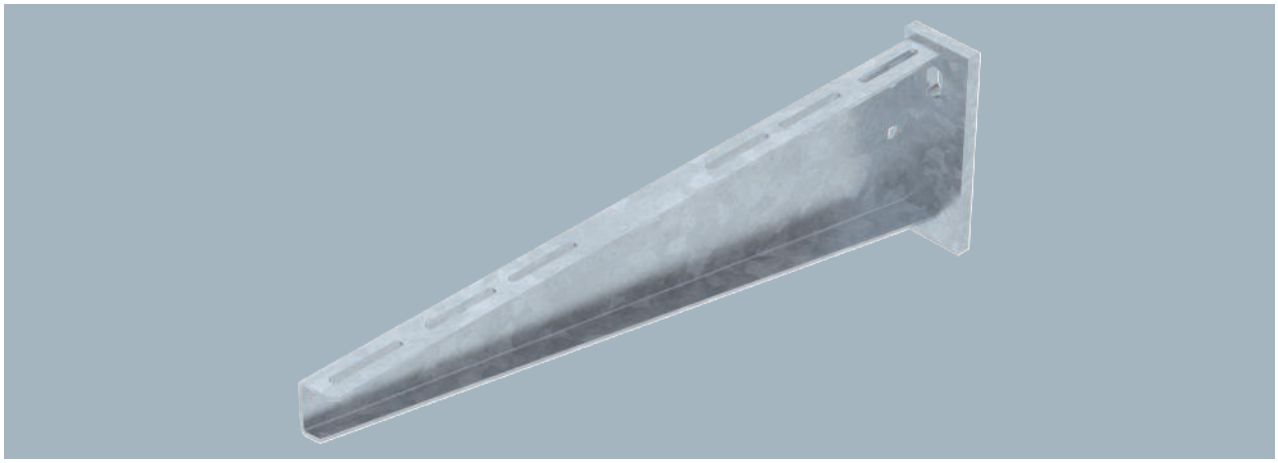


Anchor type	Max. load [kN] Bracket width [mm] 110	160	210	310	410	510	560	610	710
BZ3 10x90/0-30	3,00	2,10	-	-	-	-	-	-	-
BZ3 12x110/0-35	-	-	3,00	2,71	2,07	2,02	1,98	1,98	1,51

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Wall and support bracket AW 55

St FT



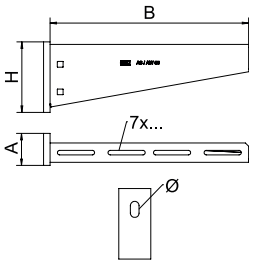
Type	Width mm	F in kN kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
AW 55 21 FT	210	5.5		1	75.700	**6418554**
AW 55 31 FT	310	5.5		1	122.000	**6418570**
AW 55 41 FT	410	5.5		1	164.400	**6418597**
AW 55 51 FT	510	5.5		1	238.200	**6418619**
AW 55 56 FT	560	5.5		1	282.000	**6418627**
AW 55 61 FT	610	5.5		1	305.000	**6418635**
AW 55 71 FT	710	5.5		1	418.000	**6418651**
AW 55 81 FT	810	5.5		1	477.000	**6418686**
AW 55 91 FT	910	5.5		1	558.000	**6418708**
AW 55 101 FT	1010	5.5		1	640.000	**6418724**

Heavy-duty wall and support bracket with welded head plate.

Fastening of the bracket to the U support of width 400 mm or greater using a hexagonal bolt through both sides of the support. Please insert suitable spacers.

Dimensions

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 55 21 FT	210	50	90	13.5
AW 55 31 FT	310	50	110	13.5
AW 55 41 FT	410	50	130	13.5
AW 55 51 FT	510	60	145	13.5
AW 55 56 FT	560	60	165	13.5
AW 55 61 FT	610	60	165	13.5
AW 55 71 FT	710	60	195	13.5
AW 55 81 FT	810	60	195	13.5
AW 55 91 FT	910	60	215	13.5
AW 55 101 FT	1010	60	230	13.5

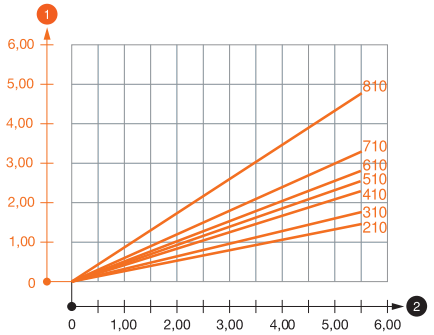


Load

Load diagram, bracket, type AW 55

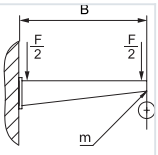
1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for wall bracket AW 55 - wall fastening

Item on test	Force F (SWL)	Width B
AW 55 21 FT	0.950 kN	210 mm
AW 55 31 FT	0.950 kN	310 mm
AW 55 41 FT	0.950 kN	410 mm
AW 55 51 FT	0.950 kN	510 mm
AW 55 56 FT	0.950 kN	560 mm
AW 55 61 FT	0.950 kN	610 mm
AW 55 71 FT	0.950 kN	710 mm
AW 55 81 FT	0.950 kN	810 mm
AW 55 91 FT	0.950 kN	910 mm
AW 55 101 FT	0.950 kN	1,010 mm



Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall and support bracket AW 55

	Wall fastening									
	Max. load [kN]									
	Bracket width [mm]									
Anchor type	210	310	410	510	560	610	710	810	910	1
BZ3 12x110/0-35	3,92	3,83	3,79	3,46	3,30	3,30	3,15	2,53	2,38	2,23

St FT

Wall bracket AW 80

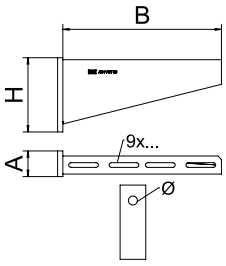


When fastening cable trays and ladders with truss-head bolts of size M6, please order large washers separately (perforation in bracket 9 x ...).

Heavy-duty wall bracket with welded head plate.

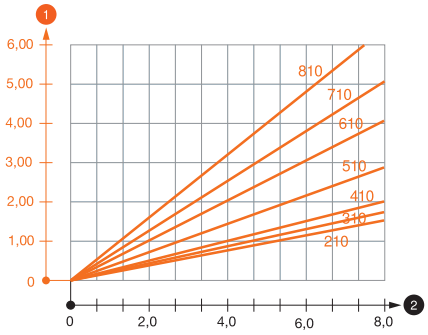
Type	Width mm	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
AW 80 21 FT	210	8		1	104.000	**6417752**
AW 80 31 FT	310	8		1	160.000	**6417779**
AW 80 41 FT	410	8		1	213.000	**6417795**
AW 80 51 FT	510	8		1	355.000	**6417817**
AW 80 61 FT	610	8		1	433.000	**6417833**
AW 80 71 FT	710	8		1	525.000	**6417868**
AW 80 81 FT	810	8		1	623.000	**6417884**

Dimensions



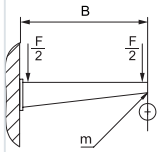
Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AW 80 21 FT	210	50	110	17.5
AW 80 31 FT	310	50	145	17.5
AW 80 41 FT	410	50	165	17.5
AW 80 51 FT	510	60	195	17.5
AW 80 61 FT	610	60	210	17.5
AW 80 71 FT	710	60	235	17.5
AW 80 81 FT	810	60	260	17.5

Load



Load diagram, bracket type AW 80

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm



Characteristic anchor load values for wall bracket AW 80 - wall fastening

Item on test	Force F (SWL)	Width B
AW 80 21 FT	8 kN	210 mm
AW 80 31 FT	8 kN	310 mm
AW 80 41 FT	8 kN	410 mm
AW 80 51 FT	8 kN	510 mm
AW 80 61 FT	8 kN	610 mm
AW 80 71 FT	8 kN	710 mm
AW 80 81 FT	8 kN	810 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Characteristic anchor load values for wall bracket AW 80



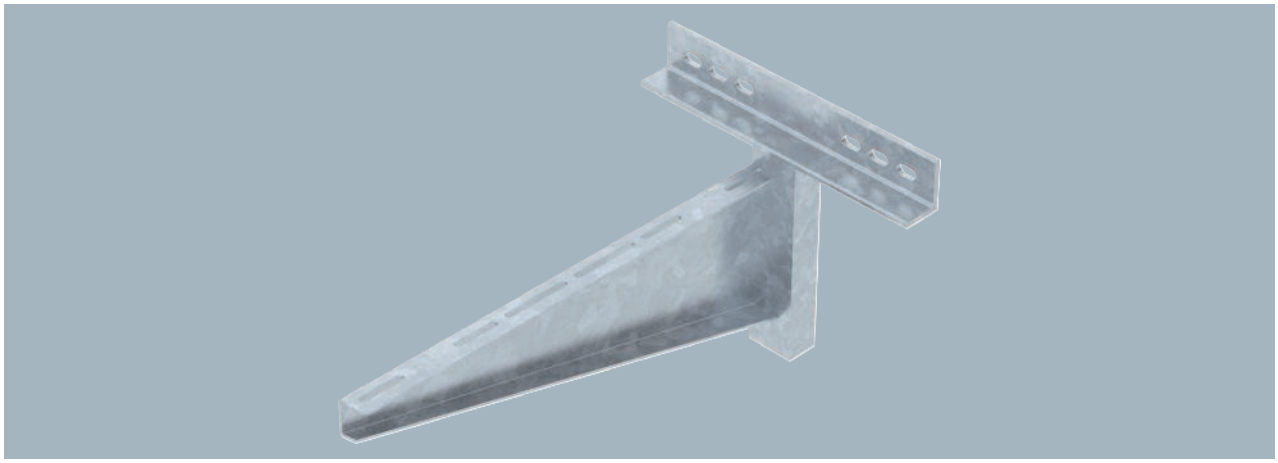
	Wall fastening						
	Max. load [kN]						
	Bracket width [mm]						
Anchor type	210	310	410	510	610	710	810
BZ3 16x135/0-35	7,31	7,66	6,87	6,38	5,90	5,17	4,69

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

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Wall and clamping bracket AWSS

St FT



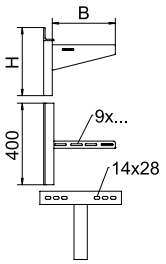
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AWSS 21 FT	210	10	1	305.100	**6417906**
AWSS 31 FT	310	10	1	533.600	**6417910**
AWSS 41 FT	410	10	1	584.400	**6417914**
AWSS 51 FT	510	10	1	693.000	**6417918**
AWSS 61 FT	610	10	1	742.300	**6417922**
AWSS 71 FT	710	8	1	840.000	**6417926**
AWSS 81 FT	810	7	1	923.000	**6417930**
AWSS 91 FT	910	6.5	1	1,020.000	**6417934**
AWSS 101 FT	1010	6	1	1,134.000	**6417938**

The heavy-duty wall bracket can be used in conjunction with wide span systems or for large support distances of cable tray or cable ladder systems.

Wall bracket, heavy duty.

Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWSS 21 FT	210	400	200	14
AWSS 31 FT	310	400	335	14
AWSS 41 FT	410	400	335	14
AWSS 51 FT	510	400	335	14
AWSS 61 FT	610	400	335	14
AWSS 71 FT	710	400	335	14
AWSS 81 FT	810	400	341	14
AWSS 91 FT	910	400	366	14
AWSS 101 FT	1010	400	391	14

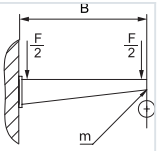
Dimensions



Load diagram, bracket type AWSS

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm

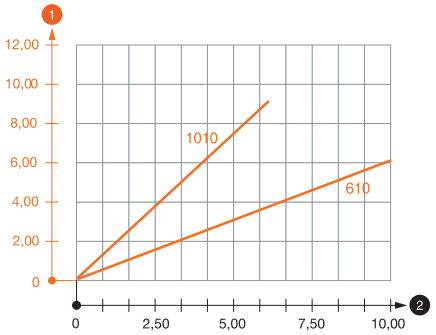
Characteristic anchor load values for wall and clamping bracket AWSS - wall fastening



Item on test	Force F (SWL)	Width B
AWSS 21 FT	10 kN	210 mm
AWSS 31 FT	10 kN	310 mm
AWSS 41 FT	10 kN	410 mm
AWSS 51 FT	10 kN	510 mm
AWSS 61 FT	10 kN	610 mm
AWSS 71 FT	8 kN	710 mm
AWSS 81 FT	7 kN	810 mm
AWSS 91 FT	6.5 kN	910 mm
AWSS 101 FT	6 kN	1,010 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

Load



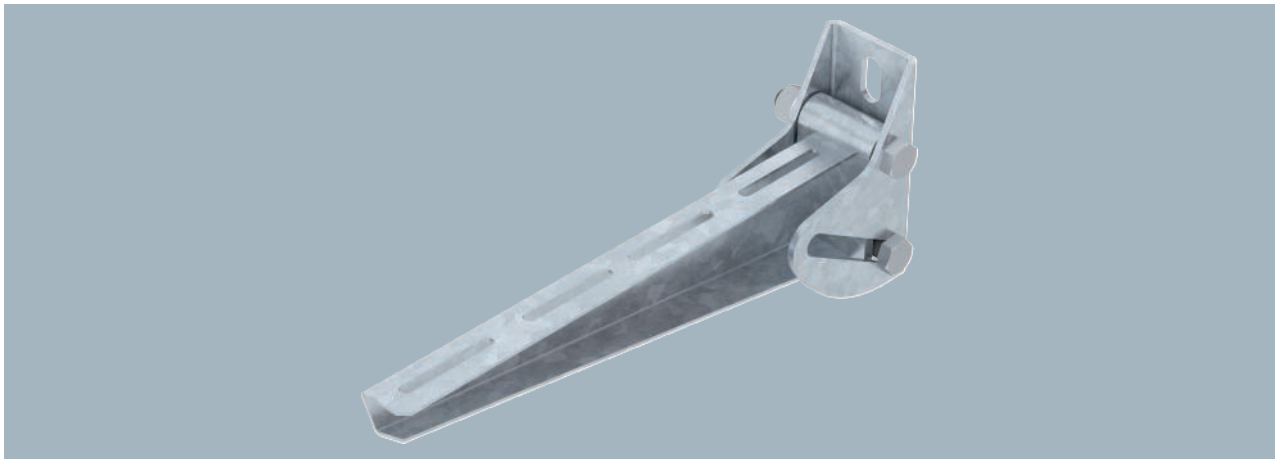
Characteristic anchor load values for wall and clamping bracket AWSS

	Wall fastening								
	Max. load [kN]								
	Bracket width [mm]								
Anchor type	210	310	410	510	610	710	810	910	1
BZ 12-15-35/110	10,00	10,00	10,00	10,00	10,00	8,00	7,00	6,50	5,50

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors).
The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

St FT

Wall bracket, variable AWV

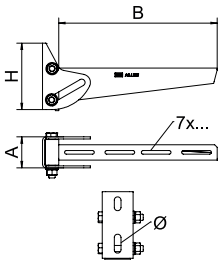


Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 30°.

Variable wall bracket for fixing to sloping or vaulted walls.

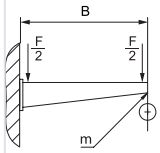
Type	Width mm	F in kN kN		Pack Piece	Weight kg/100 pc.	Item no.
AWV 21 FT	210	0.9		1	129.000	**6419534**
AWV 31 FT	310	0.9		1	149.000	**6419550**
AWV 41 FT	410	0.9		1	171.000	**6419577**
AWV 51 FT	510	0.9		1	209.000	**6419593**
AWV 61 FT	610	0.9		1	239.000	**6419615**

Dimensions



Type	Dim. B mm	Dim. A mm	Dim. H mm	Hole Ø mm
AWV 21 FT	210	60	130	13
AWV 31 FT	310	60	130	13
AWV 41 FT	410	60	130	13
AWV 51 FT	510	60	130	13
AWV 61 FT	610	60	130	13

Load



Characteristic anchor load values for AWV wall bracket – wall fastening

Item on test	Force F (SWL)	Width B
AWV 21 FT	0.9 kN	210 mm
AWV 31 FT	0.9 kN	310 mm
AWV 41 FT	0.9 kN	410 mm
AWV 51 FT	0.9 kN	510 mm
AWV 61 FT	0.9 kN	610 mm

Deformation measuring point m
According to IEC 61537, Chapter 10.8.1
Max. total load F = Cable weight + cable tray + bracket

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Adapter plate KA-AW 30

St FT

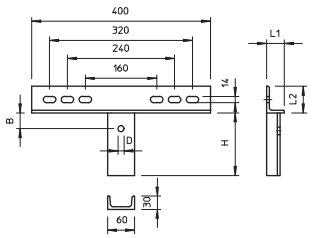


Type	Pack Piece	Weight kg/100 pc.	Item no.
KA-AW 30 FT	1	247.000	**6346715**

The bracket types AW 30, AW 55 and AW 80 can be screwed to the adapter plate.
Please order the hexagonal bolt for bracket mounting (type SKS 12 x 40 GF) separately.

Adapter plate with slots for universal fastening to vertical steel girders and walls.

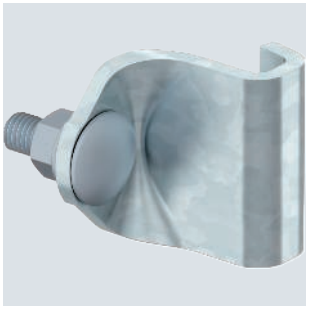
Dimensions

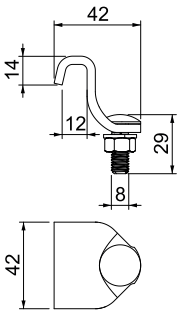


Type	Height mm	Width mm
KA-AW 30 FT	140	400

Clamping lug for AS15 / AS 30

St FT



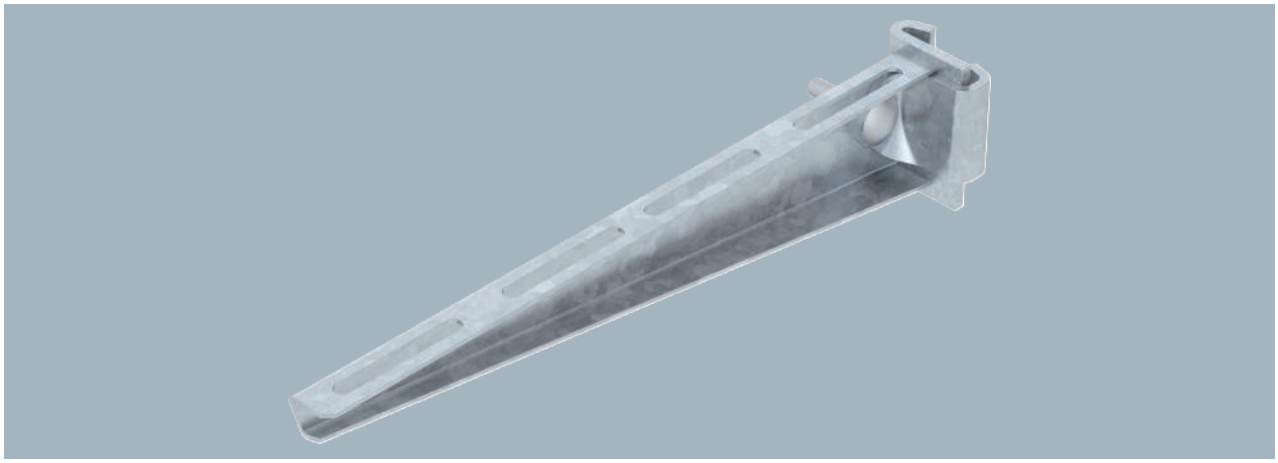


Type	Pack Piece	Weight kg/100 pc.	Item no.
KLAS 15 30 FT	25	7.900	**6419015**

Individual clamping strap for the fastening of the AS 15 brackets in the width 110–160 mm and AS 30 in the width 110 mm on the IS 8 suspended support.

St FT

Support bracket AS 15

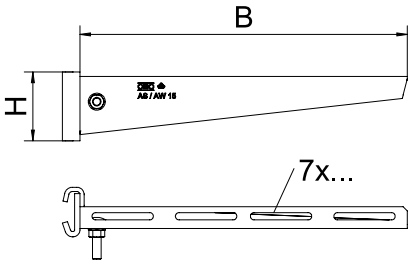


The support bracket can be fastened to both sides of the I support.
The necessary clamping lug (item no. 6419015), including bolt and nut can be ordered individually for bracket widths 110–160 mm.

Light-duty support bracket for infinitely adjustable fastening on IS 8 support.

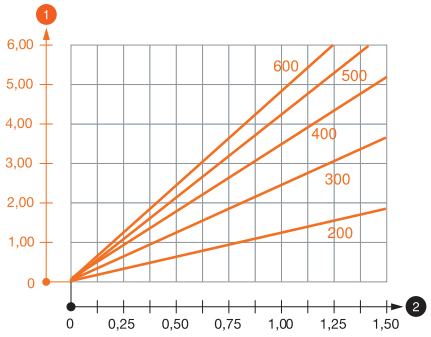
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AS 15 11 FT	110	1.5	1	27.400	**6421326**
AS 15 16 FT	160	1.5	1	32.800	**6421334**
AS 15 21 FT	210	1.5	1	39.400	**6421350**
AS 15 31 FT	310	1.5	1	46.500	**6421385**
AS 15 41 FT	410	1.5	1	66.000	**6421423**
AS 15 51 FT	510	1.5	1	79.600	**6421466**
AS 15 61 FT	610	1.5	1	87.100	**6421490**

Dimensions



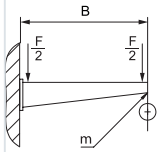
Type	Dim. B mm	Dim. H mm
AS 15 11 FT	110	50
AS 15 16 FT	160	55
AS 15 21 FT	210	60
AS 15 31 FT	310	65
AS 15 41 FT	410	70
AS 15 51 FT	510	75
AS 15 61 FT	610	80

Load



Load diagram, bracket type AS 15

1 Bending of the bracket tip at permitted bracket load
2 Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm



Characteristic anchor load values for AS 15 wall and support bracket – wall fastening

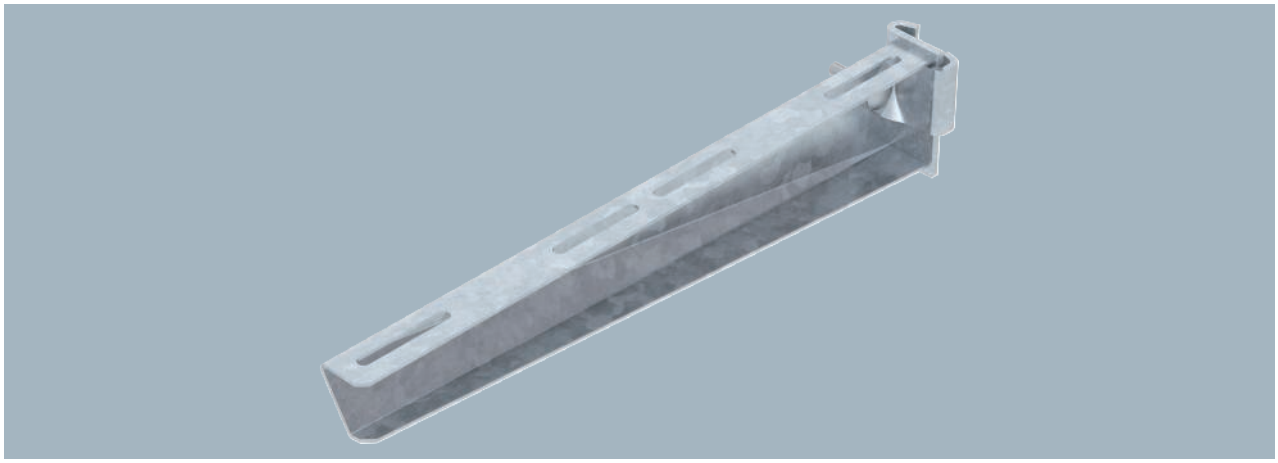
Item on test	Force F (SWL)	Width B
AS 15 11 FT	0.15 kN	110 mm
AS 15 16 FT	0.15 kN	160 mm
AS 15 21 FT	0.15 kN	210 mm
AS 15 31 FT	0.15 kN	310 mm
AS 15 41 FT	0.15 kN	410 mm
AS 15 51 FT	0.15 kN	510 mm
AS 15 61 FT	0.15 kN	610 mm

Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1,010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

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Support bracket AS 30

St FT



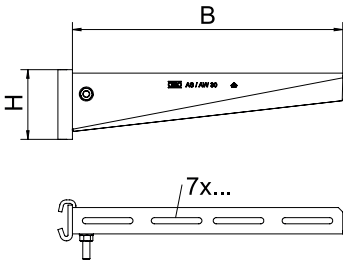
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AS 30 11 FT	110	3	1	30.000	**6419370**
AS 30 16 FT	160	3	1	37.000	**6419376**
AS 30 21 FT	210	3	1	44.000	**6419382**
AS 30 31 FT	310	3	1	73.000	**6419388**
AS 30 41 FT	410	3	1	100.000	**6419394**
AS 30 51 FT	510	3	1	140.000	**6419400**
AS 30 61 FT	610	3	1	168.000	**6419412**

The support bracket can be fastened to both sides of the I support.
The individual clamping lug, including bolt, nut and washer can also be ordered separately under the item no. 6419007.

Medium-duty support bracket for infinitely adjustable fastening on IS 8 support.

Type	Dim. B mm	Dim. H mm
AS 30 11 FT	110	60
AS 30 16 FT	160	65
AS 30 21 FT	210	70
AS 30 31 FT	310	80
AS 30 41 FT	410	80
AS 30 51 FT	510	90
AS 30 61 FT	610	100

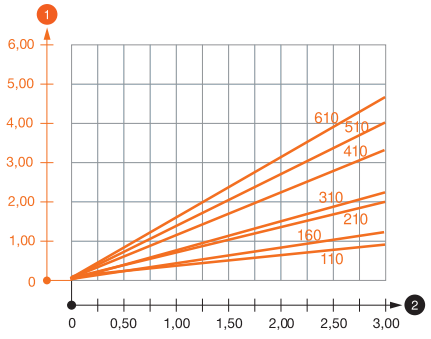
Dimensions



Load diagram, bracket type AS 30

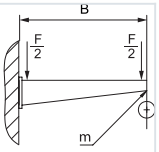
1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm

Load



Characteristic anchor load values for AS30 support bracket

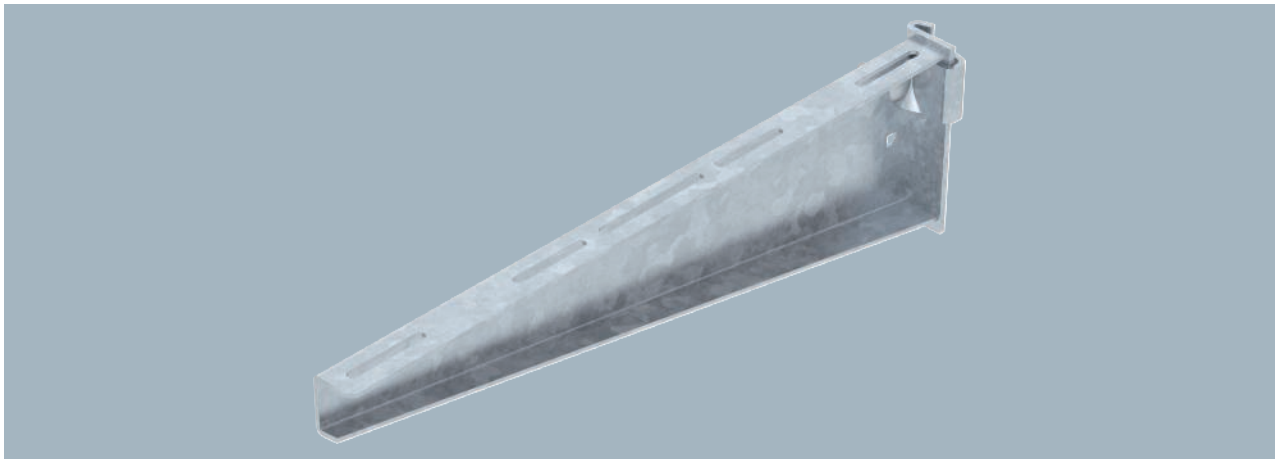
Item on test	Force F (SWL)	Width B
AS 30 11 FT	3 kN	110 mm
AS 30 16 FT	3 kN	160 mm
AS 30 21 FT	3 kN	210 mm
AS 30 31 FT	3 kN	310 mm
AS 30 41 FT	3 kN	410 mm
AS 30 51 FT	3 kN	510 mm
AS 30 56 FT	3 kN	560 mm
AS 30 61 FT	3 kN	610 mm
AS 30 71 FT	3 kN	710 mm



Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

St FT

Support bracket AS 55

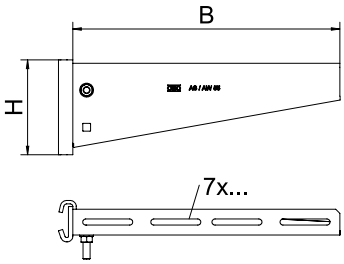


The support bracket can be fastened to both sides of the I support.
The individual clamping lug, including bolt, nut and washer can also be ordered separately under the item no. 6419007.

Heavy-duty support bracket for infinitely adjustable fastening on IS 8 support.

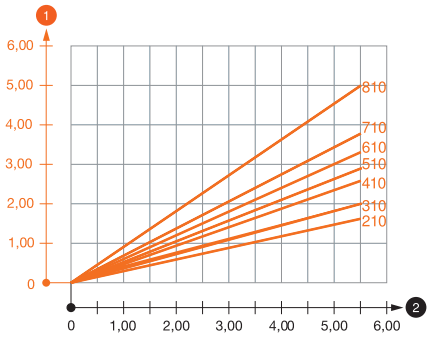
Type	Width mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
AS 55 21 FT	210	5.5	1	74.200	**6419286**
AS 55 31 FT	310	5.5	1	133.000	**6419292**
AS 55 41 FT	410	5.5	1	153.000	**6419298**
AS 55 51 FT	510	5.5	1	233.000	**6419304**
AS 55 61 FT	610	5.5	1	283.000	**6419316**

Dimensions



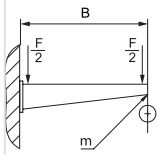
Type	Dim. B mm	Dim. H mm
AS 55 21 FT	210	90
AS 55 31 FT	310	110
AS 55 41 FT	410	130
AS 55 51 FT	510	145
AS 55 61 FT	610	165

Load



Load diagram, bracket type AS 55

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm



Characteristic anchor load values for AS55 support bracket

Item on test	Force F (SWL)	Width B
AS 55 21 FT	0.950 kN	210 mm
AS 55 31 FT	0.950 kN	310 mm
AS 55 41 FT	0.950 kN	410 mm
AS 55 51 FT	0.950 kN	510 mm
AS 55 56 FT	0.950 kN	560 mm
AS 55 61 FT	0.950 kN	610 mm
AS 55 71 FT	0.950 kN	710 mm
AS 55 81 FT	0.950 kN	810 mm
AS 55 91 FT	0.950 kN	910 mm
AS 55 101 FT	0.950 kN	1,010 mm

Max. total load F = Cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance grade C20/25. Comply with the installation conditions of the DIBt approval (anchors). The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.

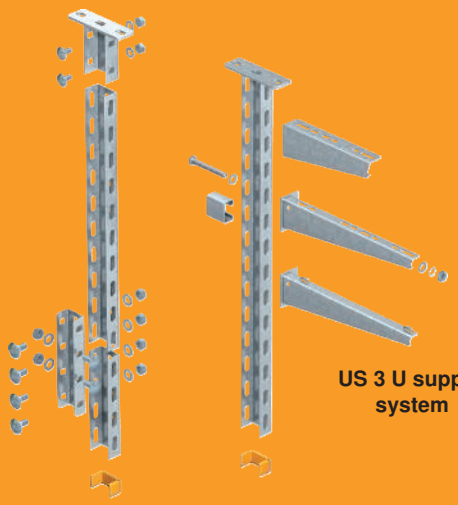
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Always indicate the item number when ordering.



U support family

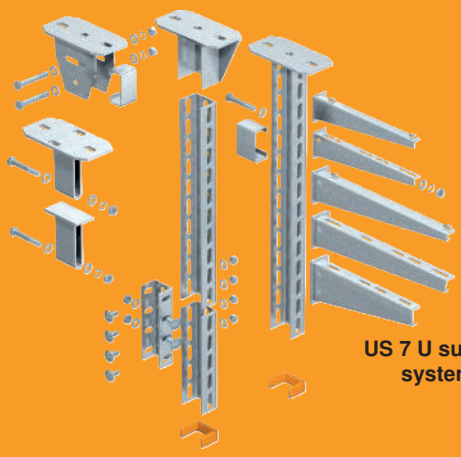
The perfectly matched U support family consists of US 3 (light-duty system), US 5 (medium-duty system) and US 7 (heavy-duty system). The U support range is particularly noted for its versatility. The U supports can be used as ceiling suspension, floor stand-off or as construction profiles.



US 3 U support system

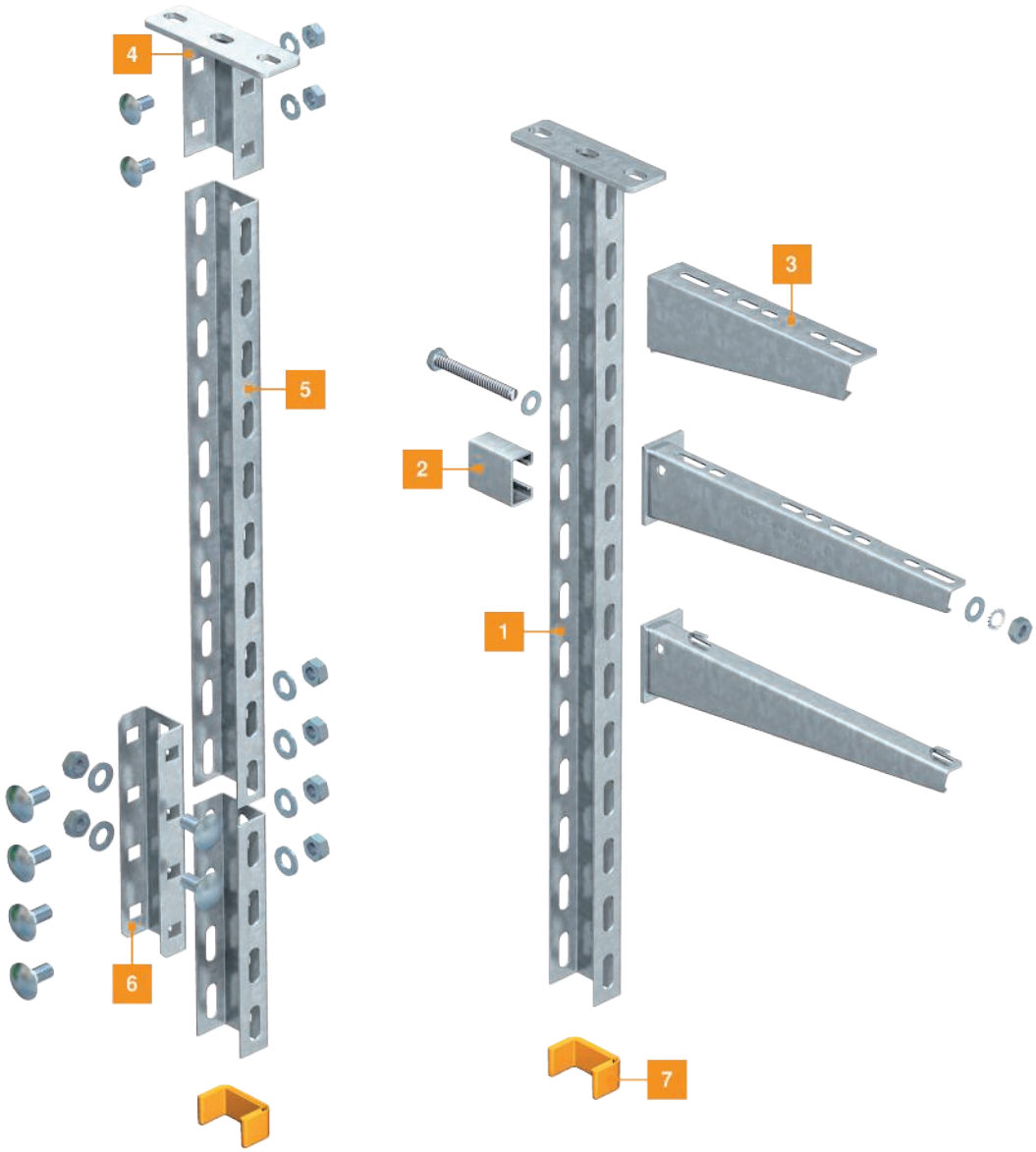


US 5 U support system



US 7 U support system

Installation principle



1	US 3 suspended support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 3 support
6	U support connector
7	End cap

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Mounting aid

U supports and brackets



Standard mounting of suspended support with wall bracket, single-sided without spacer
Ceiling fastening of a suspended support with single-sided bracket fastening. A spacer is not always required for widths up to and including 300 mm.



Standard mounting of support with wall and support bracket, single-sided with spacer
Cover fixing of a suspended support with single-sided bracket fixing. For widths of over 400 mm, we recommend using a spacer.



Standard mounting of support with wall and support bracket, double-sided
Cover fixing of a suspended support with double-sided bracket mounting.



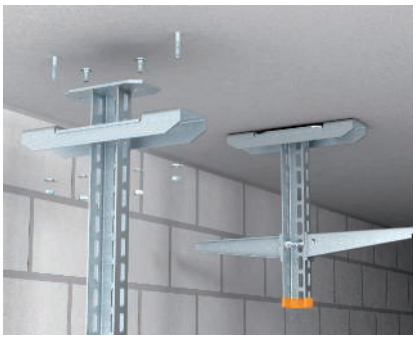
Ceiling mounting
Standard mounting of U supports US 3 K, US 5 K and US 7 K on the ceiling with fastening of the wall and support brackets.



Head plate mounting
Mounting of the standard head plate to support and ceiling. Use with spacer DSK 25 (US 3), DSK 45 (US 5) or DSK 61 (US 7).



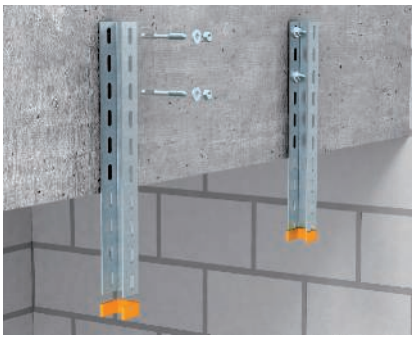
Adapter head plate, asymmetrical
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with suspended supports, type US 7 K and IS 8 K.



Adapter head plate, symmetrical
Symmetrical head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



Traverse
Mounting of U suspended supports US 3 K, US 5 K and US 7 K under the ceiling using bolt ties and a trapeze, consisting of U profile US 3, US 5 or US 7.



U support wall mounting
U supports are mounted on walls or girders using bolt ties, directly through the system perforation in the U support.



U support connection
To connect U supports, use the appropriate U support connectors, types VUS 3, VUS 5 and VUS 7.



Installation of spacer
Installation of the spacer DSK 47 with US 5 supports or DSK 45 with US 7 supports in conjunction with a variable head plate KU 5 V or KU 7 VQP.



Variable head plate with US 3 support
Installation of the variable head plate, type KU 3 V on US 3 support.



Variable head plate
Fastening of the variable head plate KU 5 V to sloping concrete ceilings using bolt ties and spacer DSK 47.



Variable head plate
Fastening of the variable head plate KU 7 VQP to sloping concrete ceilings using bolt ties and spacer DSK 45.



45° adapter plate, concrete mounting
Installation of the 45° adapter plate, type KA-E, on a concrete wall. For additional support and implementation of trays at room corners.



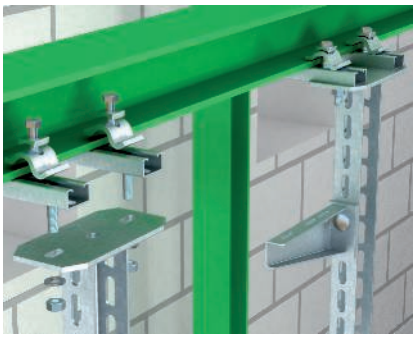
45° adapter plate, steel clamping
Mounting of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of routes in angles and at room corners.



Direct girder clamping
Direct girder clamping of a U suspended support using KWS clamping angle. Route in longitudinal direction of steel girder.



Steel clamping with C profile, route in longitudindal direction
U suspended support mounting, clamped to steel girder with C profile, type MS 4022, and TKH-L-25 light-duty chuck jaw. Route along steel girder.



Steel clamping with C profile, route in transverse direction
U suspended support mounting, clamped to steel girder with C profile, type MS 4022, and TKH-L-25 light-duty chuck jaw. Route transverse to steel girder.



Head plate mounting
Installation of the head plate using the example KU 7 AOX for direct welding on steel girders.

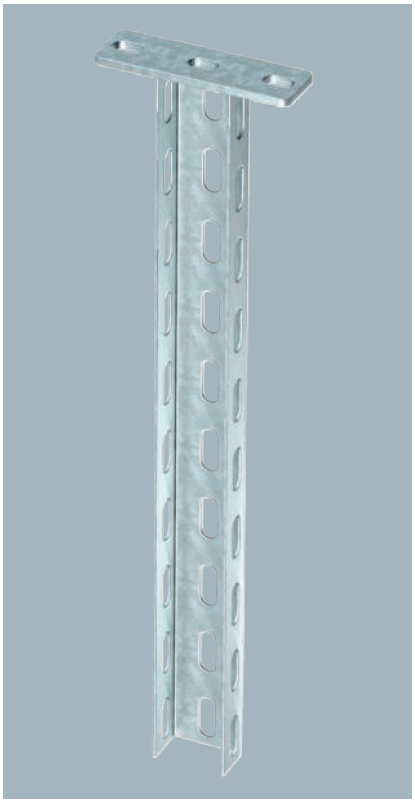


Cantilever beam on steel
U supports can be used as cantilever beams on steel girders with chuck jaws of type TKS-L-25. Use DSK spacers for safe functioning.

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US 3 support

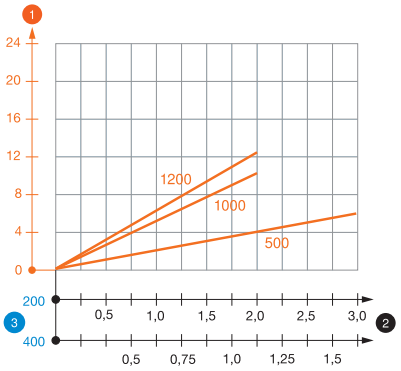
St FT



Type	Length mm	Material thickness mm	Tensile load kN	BS		Pack Piece	Weight kg/100 pc.	Item no.
US 3 K 20 FT	200	2	5			1	50.500	**6342351**
US 3 K 30 FT	300	2	5			1	64.400	**6342353**
US 3 K 40 FT	400	2	5			1	78.300	**6342355**
US 3 K 50 FT	500	2	5			1	92.300	**6342357**
US 3 K 60 FT	600	2	5			1	106.200	**6342359**
US 3 K 70 FT	700	2	5			1	120.200	**6342362**
US 3 K 80 FT	800	2	5			1	134.100	**6342364**
US 3 K 90 FT	900	2	5			1	147.800	**6342366**
US 3 K 100 FT	1000	2	5			1	162.000	**6342368**
US 3 K 110 FT	1100	2	5			1	175.900	**6342370**
US 3 K 120 FT	1200	2	5			1	189.900	**6342372**

Load

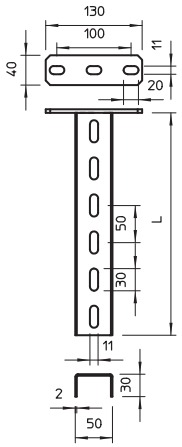
Load diagram, U support, type US 3 K

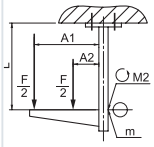


1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

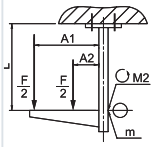
Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.





Testing of the bending torque on the support with bracket

Item on test	US 3 K 80	US 3 K 120
	AW 15 31	AW 15 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm



Testing of the bending torque on the support with bracket with spacer

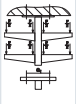
Item on test	US 3 K 80	US 3 K 120
	AW 15 61	**AW 15 61**
Deformation measuring point m		
A1 lever arm	**610 mm**	**610 mm**
A2 lever arm	**10 mm**	**10 mm**
Length L	**500 mm**	**1,000 mm**
Force F	**0.850 kN**	**0.850 kN**
Bending torque M2 (SWL)	**290 Nm**	**290 Nm**

According to IEC 61537, Chapter 10.8.2.3, without spacer

Characteristic anchor load values for US 3 K suspended support



Single-sided load	Max. load [kN]			
	Bracket width [mm]			
Anchor type	110%	210	310	410
BZ-U 8-10-21/75	2,18	1,59	1,25	1,02
BZ3 10x90/0-30	3,05	2,00	1,49	1,18

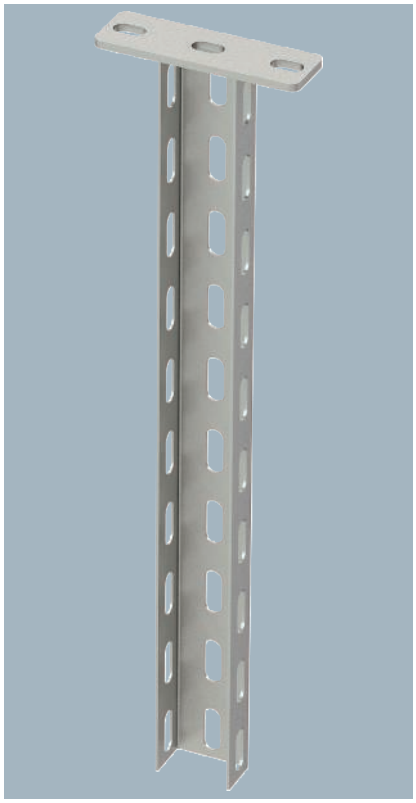


Double-sided load	Max. load [kN]			
	Bracket width [mm]			
Anchor type	110%	210	310	410
BZ-U 8-10-21/75	4,54	3,78	3,21	1,50
BZ3 10x90/0-30	7,17	5,96	5,07	4,50

A2 2B

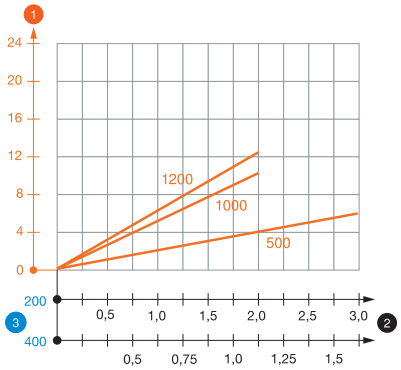
US 3 support

Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
US 3 K 20 A2	200	2	5	1	44.000	**6342401**
US 3 K 50 A2	500	2	5	1	84.000	**6342407**
US 3 K 60 A2	600	2	5	1	97.000	**6342409**
US 3 K 100 A2	1000	2	5	1	150.000	**6342417**



Load

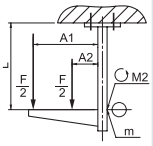
Load diagram, U support, type US 3 K



1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm

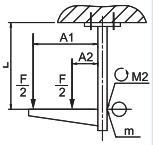
Testing of the bending torque on the support with bracket

Item on test	US 3 K 80 AW 15 31	US 3 K 120 AW 15 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.947 kN	0.790 kN
Bending torque M2 (SWL)	180 Nm	150 Nm



Testing of the bending torque on the support with bracket with spacer

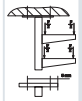
Item on test	US 3 K 80 AW 15 61	US 3 K 120 AW 15 61
Deformation measuring point m		
A1 lever arm	610 mm	610 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	0.850 kN	0.850 kN
Bending torque M2 (SWL)	290 Nm	290 Nm



According to IEC 61537, Chapter 10.8.2.3, without spacer

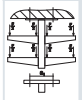
Characteristic anchor load values for US 3 K suspended support

Single-sided load



Anchor type	Max. load [kN] Bracket width [mm] 110%	210	310	410
BZ3 8x75/0-20	2,18	1,59	1,25	1,02
BZ3 10x90/0-30	3,05	2,00	1,49	1,18

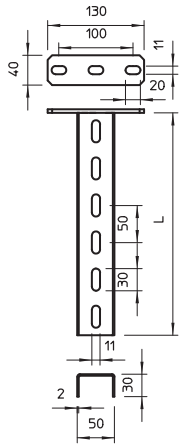
Double-sided load



Anchor type	Max. load [kN] Bracket width [mm] 110%	210	310	410
BZ3 8x75/0-20	4,54	3,78	3,21	2,66
BZ3 10x90/0-30	7,17	5,96	5,07	4,14

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

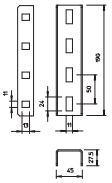
Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.



St FT

VUS 3 U support connector

Type	Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 FT	10	48.300	**6018513**





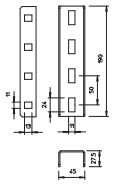
U support connector to connect US 3 supports.
Including appropriate fastening material.

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VUS 3 U support connector

A2 2B





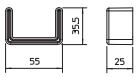
Type		Pack Piece	Weight kg/100 pc.	Item no.
VUS 3 A2		1	48.200	6018517

U support connector to connect US 3 supports.
Including appropriate fastening material.

Protective cap

PE





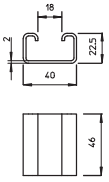
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 3 KS OR	Pastel orange	20	1.068	6338458

Protective cap to cover the ends of US 3 supports.

DSK 25 spacer

St FT



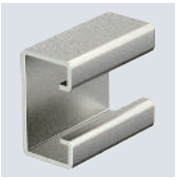


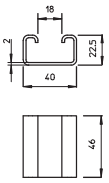
Type		Pack Piece	Weight kg/100 pc.	Item no.
DSK 25 FT		20	7.500	6416446

Spacer for use in US 3 supports.

DSK 25 spacer

A2 2B





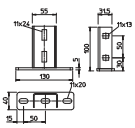
Type		Pack Piece	Weight kg/100 pc.	Item no.
DSK 25 A2		10	7.500	6416448

Spacer for use in US 3 supports.

Head plate

St FT





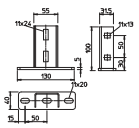
Type		Pack Piece	Weight kg/100 pc.	Item no.
KU 3 FT		1	42.300	6348874

The head plate can be mounted to fixed lengths of the U support, type US 3.
Including appropriate fastening material.
Head plate for mounting on US 3 supports.

A2 2B

Head plate

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 A2	1	41.000	6348876





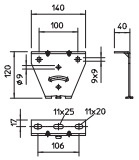
The head plate can be mounted to fixed lengths of the U support, type US 3.
Including appropriate fastening material.

Head plate for mounting on US 3 supports.

St FS FT

Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 3 V FS	1	40.000	6348881
KU 3 V FT	1	41.300	6348883





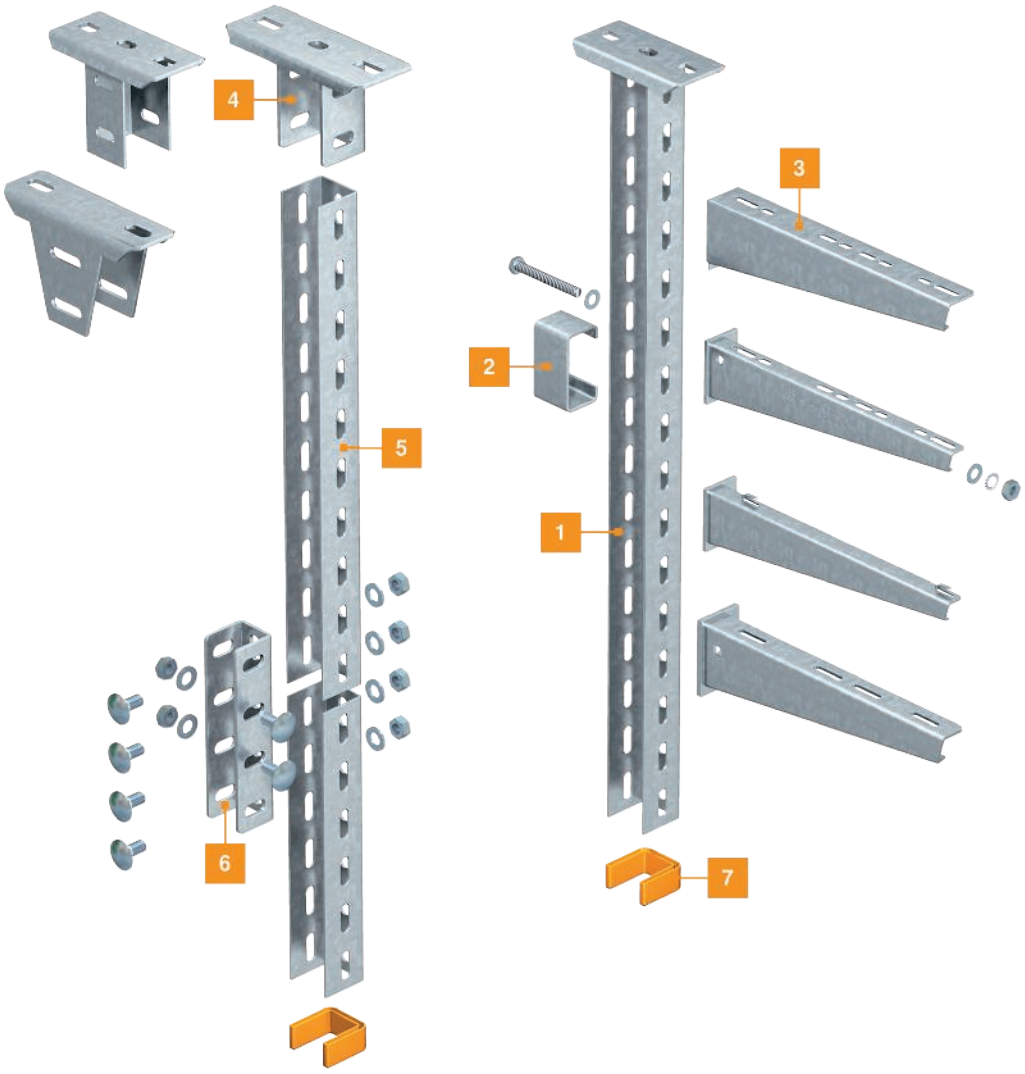
The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type AML3518/AMS3518 and CML3518/CMS3518. The maximum angle adjustment is 20° on one side.

Variable head plate for installation on US 3 supports and profile rails, type AML3518/AMS3518 and CML3518/CMS3518.

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US 5 U support system

Installation principle



1	US 5 suspended support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 5 support
6	U support connector
7	End cap

St FT

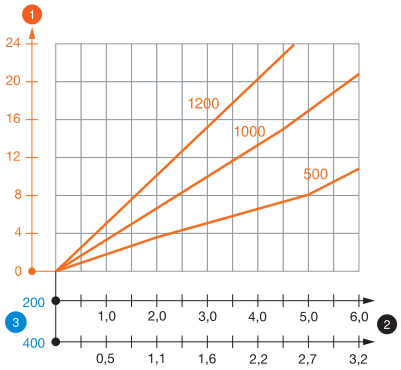
US 5 support

Type	Length mm	Material thickness mm	Tensile load kN	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 5 K 20 FT	200	2.5	10		1	85.000	**6341527**
US 5 K 30 FT	300	2.5	10		1	110.000	**6341535**
US 5 K 40 FT	400	2.5	10		1	136.000	**6341543**
US 5 K 50 FT	500	2.5	10		1	161.000	**6341551**
US 5 K 60 FT	600	2.5	10		1	185.000	**6341578**
US 5 K 70 FT	700	2.5	10		1	210.000	**6341586**
US 5 K 80 FT	800	2.5	10		1	236.000	**6341594**
US 5 K 90 FT	900	2.5	10		1	261.000	**6341608**
US 5 K 100 FT	1000	2.5	10		1	286.000	**6341616**
US 5 K 110 FT	1100	2.5	10		1	311.000	**6341624**
US 5 K 120 FT	1200	2.5	10		1	337.000	**6341632**



Load

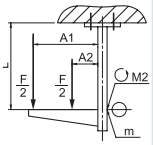
Load diagram, U support, type US 5 K



1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm

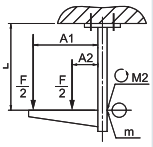
Testing of the bending torque on the support with bracket

Item on test	US 5 K 80	US 5 K 120
	AW 30 31 FT	AW 30 31 FT
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.253 kN	1.358 kN
Bending torque M2 (SWL)	240 Nm	260 Nm



Testing of the bending torque on the support with bracket with spacer

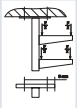
Item on test	US 5 K 80	US 5 K 120
	AW 30 71 FT	**AW 30 71 FT**
Deformation measuring point m		
A1 lever arm	**710 mm**	**710 mm**
A2 lever arm	**10 mm**	**10 mm**
Length L	**500 mm**	**1,000 mm**
Force F	**1.272 kN**	**1.094 kN**
Bending torque M2 (SWL)	**500 Nm**	**430 Nm**



According to IEC 61537, Chapter 10.8.2.3

Characteristic anchor load values for US 5 K support

Single-sided load



Anchor type	Max. load [kN] Bracket width [mm] 110%	210	310	410
BZ3 10x90/0-30	4,31	3,18	2,51	2,06
BZ3 12x110/0-35	5,82	4,29	3,39	2,77

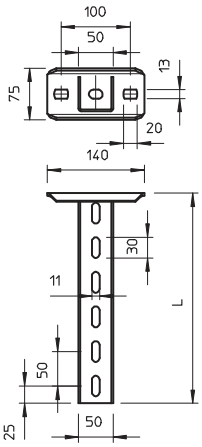
Double-sided load



Anchor type	Max. load [kN] Bracket width [mm] 110%	210	310	410	510	610
BZ3 10x90/0-30	8,56	7,24	6,20	5,17	4,58	4,12
BZ3 12x110/0-35	11,58	9,79	8,38	6,99	6,19	5,57

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

U support of dimensions 50 x 50 mm with welded head plate.

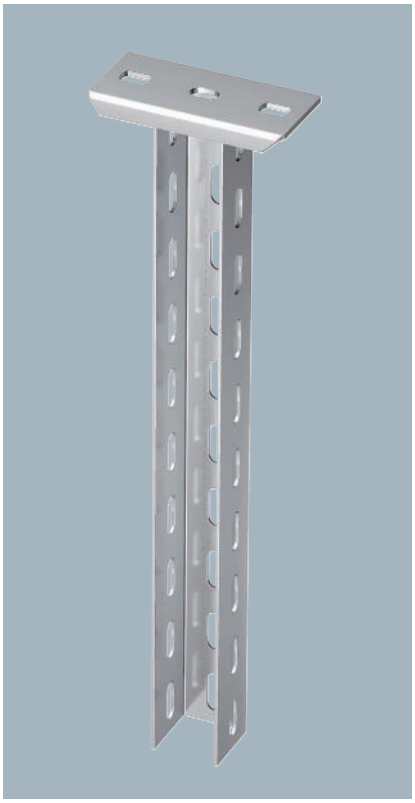


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Always indicate the item number when ordering.

US 5 support

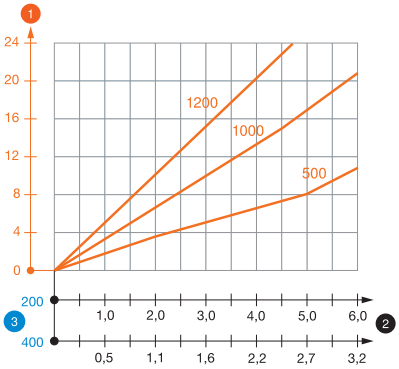
A2 2B



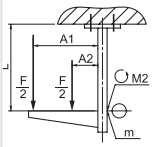
Type	Length mm	Material thickness mm	Tensile load kN		Pack Piece	Weight kg/100 pc.	Item no.
US 5 K 120 A2	1200	2.5	10		1	360.000	**6341398**

Load

Load diagram, U support, type US 5 K VA

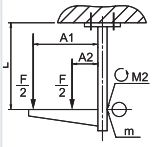


1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm



Testing of the bending torque on the support with bracket

Item on test	US 5 K 80	US 5 K 120
	AW 30 31	AW 30 31
Deformation measuring point m		
A1 lever arm	310 mm	310 mm
A2 lever arm	10 mm	10 mm
Length L	500 mm	1,000 mm
Force F	1.253 kN	1.358 kN
Bending torque M2 (SWL)	240 Nm	260 Nm



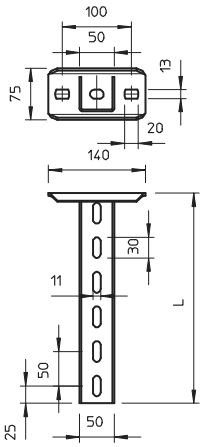
Testing of the bending torque on the support with bracket with spacer

Item on test	US 5 K 80	US 5 K 120
	AW 30 71	**AW 30 71**
Deformation measuring point m		
A1 lever arm	**710 mm**	**710 mm**
A2 lever arm	**10 mm**	**10 mm**
Length L	**500 mm**	**1,000 mm**
Force F	**1.272 kN**	**0.950 kN**
Bending torque M2 (SWL)	**500 Nm**	**430 Nm**

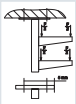
According to IEC 61537, Chapter 10.8.2.3

For fastening to horizontal concrete ceilings and steel girders. For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.

Suspended support (U profile) with welded head plate.



Characteristic anchor load values for US 5 K support



Single-sided load

Anchor type	Max. load [kN] Bracket width [mm] 110%	210	310	410
BZ3 10x90/0-30	4,31	3,18	2,51	2,06
BZ3 12x110/0-35	5,82	4,29	3,39	2,77



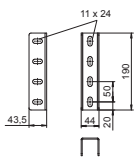
Double-sided load

Anchor type	Max. load [kN] Bracket width [mm] 110%	210	310	410	510	610
BZ3 10x90/0-30	8,56	7,24	6,20	5,17	4,58	4,12
BZ3 12x110/0-35	11,58	9,79	8,38	6,99	6,19	5,57

VUS 5 U support connector

St FT





Type		Pack Piece	Weight kg/100 pc.	Item no.
VUS 5 FT		10	61.000	**6018505**

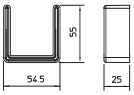
U support connector to connect US 5 supports.
Including appropriate fastening material.

PE

Protective cap

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 5 KS OR	Pastel orange	20	1.300	6338462

Protective cap to cover the ends of US 5 supports.





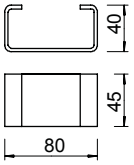
St FT

Spacer DSK 45

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 45 FT	20	18.000	6416500

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

Spacer for use in US 5 support and in the head plate, type KU 7 VQP.





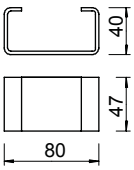
St FT

Spacer DSK 47

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 47 FT	20	19.000	6416504

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.

Spacer for use in head plate, type KU 5 V.





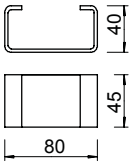
A2 2B

Spacer DSK 45

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 45 A2	10	14.600	6416489

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.

Spacer for use in US 5 supports.





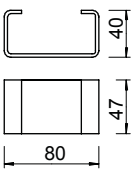
A2 2B

Spacer DSK 47

Type	Pack Piece	Weight kg/100 pc.	Item no.
DSK 47 A2	10	15.600	6416507

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the bolts are tightened.

Spacer for use in head plate, type KU 5 V.





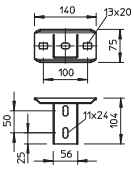
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Always indicate the item number when ordering.

Head plate US 5

St FT





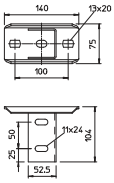
Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 FT	1	61.900	6348904

When installing the head plate, please use the spacer, type DSK 45.
Head plate for installation in US 5 support.

Head plate US 5 NOK

St FT





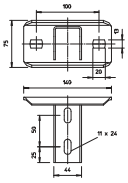
Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 NOK FT	1	75.000	6348939

Head plate with U support mounting rotated 90°.
When installing the head plate, please use the spacer, type DSK 45.

Head plate US 5 NOK

A2 2B





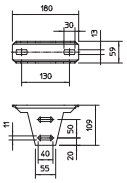
Type	Pack Piece	Weight kg/100 pc.	Item no.
KUS 5 NOK A2	1	61.000	6348947

When installing the head plate, please use the spacer, type DSK 45.
Head plate with U support mounting rotated 90°.

KU 5 head plate, variable

St FT

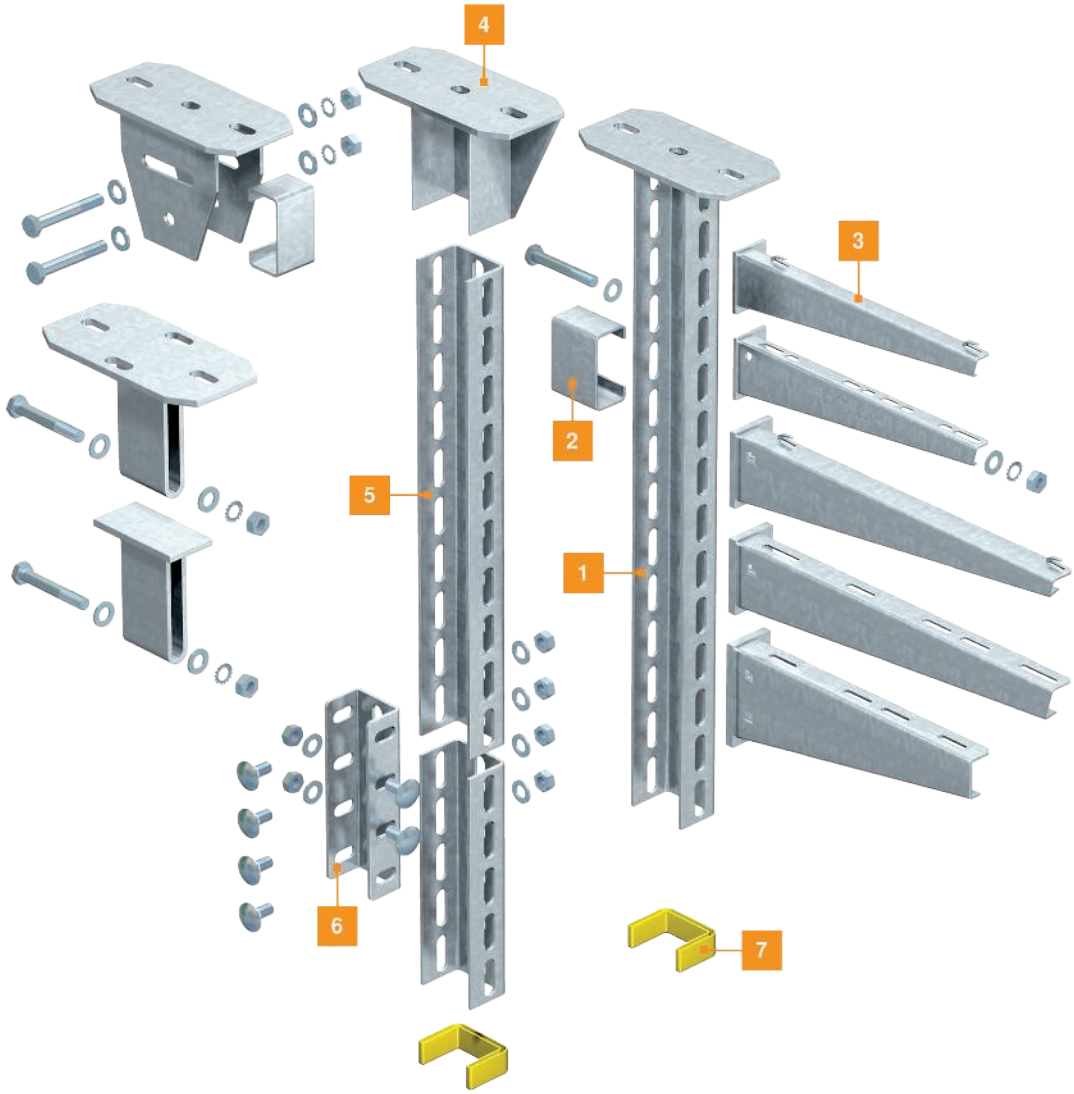




Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 5 V FT	1	82.000	6348920

The spacer, type DSK 47, is used for stabilisation when mounting the head plate. The maximum angle adjustment is approx. 30° on one side.
Variable head plate for installation on US 5 support.

Installation principle

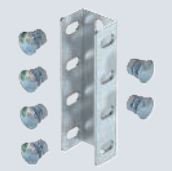


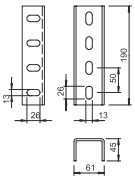
1	US 7 suspended support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 7 support
6	U support connector
7	Protective cap

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VUS 7 U support connector

St FT





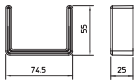
Type		Pack Piece	Weight kg/100 pc.	Item no.
VUS 7 FT		10	112.800	6018378

U support connector to connect US 7 supports.
Including appropriate fastening material.

End cap

PE





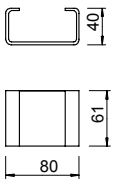
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
US 7 KS OR	Pastel orange	20	1.806	6338497

Protective cap to cover the ends of US 7 supports.

DSK 61 spacer

St FT





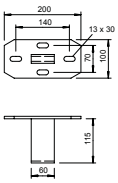
Type		Pack Piece	Weight kg/100 pc.	Item no.
DSK 61 FT		20	25.000	6416519

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.
Spacer for use in US 7 supports.

Head plate, light-duty version

St FT



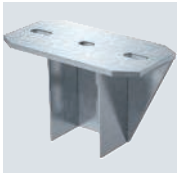


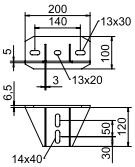
Type		Pack Piece	Weight kg/100 pc.	Item no.
KU 7 FT		1	144.600	6349102

Please order fastening material (two hexagonal bolts SKS 12 x 100) separately.
Light-duty head plate for mounting on US 7 support.

Head plate, heavy duty

St FT





Type		Pack Piece	Weight kg/100 pc.	Item no.
KU 7 NOX FT		1	184.000	6349056

Please order fastening material (two truss-head bolts FRS 12 x 25) separately.
Heavy duty head plate for installation in US 7 support.

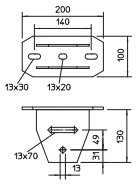
St FT

Head plate, variable

Type	Pack Piece	Weight kg/100 pc.	Item no.
KU 7 VQP FT	1	181.600	6349153

Please order fastening material (two hexagonal bolts SKS 12 x 80 and spacer DSK 45) separately. The maximum angle adjustment is 30° on one side.

Variable head plate for installation on US 7 support.



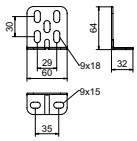


St FS

Fastening bracket BW 64

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 64 32 FS	10	7.090	6019680

Light-duty fastening bracket of limb dimension 64 x 32 mm.



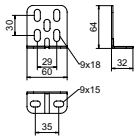


St FT

Fastening bracket BW 64

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 64 32 FT	10	7.700	6019682

Light-duty fastening bracket of limb dimension 64 x 32 mm.



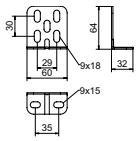


A2

Fastening bracket BW 64

Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 64 32 A2	10	7.090	6019686

Light-duty fastening bracket of limb dimension 64 x 32 mm.

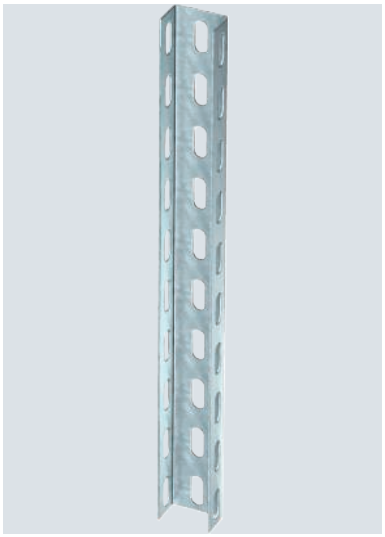


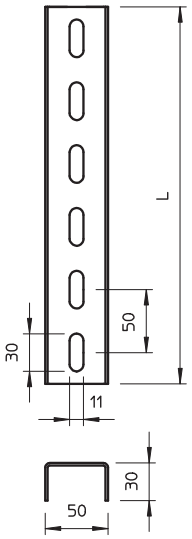


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US 3 support

St FS FT





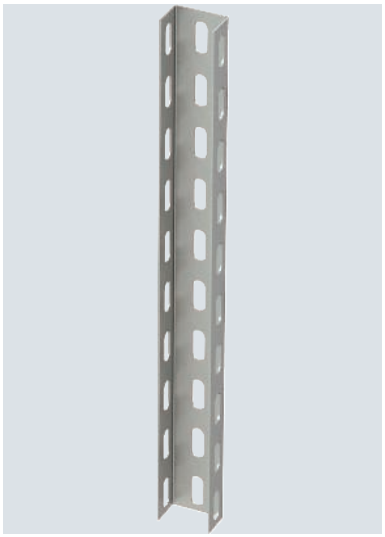
Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 3 20 FS	200	2		1	27.000	**6342302**
US 3 30 FS	300	2		1	40.000	**6342304**
US 3 40 FS	400	2		1	53.000	**6342306**
US 3 50 FS	500	2		1	67.000	**6342308**
US 3 60 FS	600	2		1	80.000	**6342310**
US 3 70 FS	700	2		1	93.000	**6342312**
US 3 80 FS	800	2		1	107.000	**6342314**
US 3 100 FS	1000	2		1	133.000	**6342318**
US 3 150 FS	1500	2		1	200.000	**6342328**
US 3 200 FS	2000	2		1	266.000	**6342338**
US 3 300 FS	3000	2		1	399.000	**6342340**
US 3 600 FS	6000	2		1	798.000	**6342345**
US 3 90 FS	900	2		1	120.000	**6342316**
US 3 600 FT	6000	2		1	834.000	**6342450**

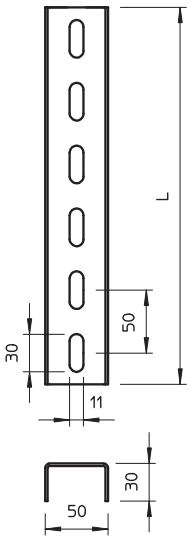
U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

US 3 support

A2 2B





Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
US 3 100 A2	1000	2		1	132.000	**6342460**
US 3 150 A2	1500	2		1	198.000	**6342463**
US 3 200 A2	2000	2		1	263.000	**6342466**
US 3 600 A2	6000	2		1	790.000	**6342468**

U support in fixed lengths. Dimensions 30 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 25.

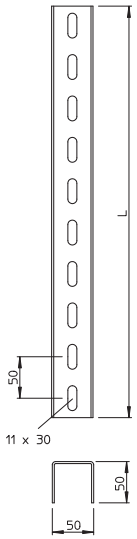
St FT

US 5 support

Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 5 20 FT	200	2.5		1	51.000	**6340881**
US 5 30 FT	300	2.5		1	79.000	**6340903**
US 5 40 FT	400	2.5		1	106.000	**6340911**
US 5 50 FT	500	2.5		1	133.000	**6340938**
US 5 60 FT	600	2.5		1	160.000	**6340946**
US 5 70 FT	700	2.5		1	175.000	**6340950**
US 5 80 FT	800	2.5		1	200.000	**6340954**
US 5 90 FT	900	2.5		1	227.000	**6340958**
US 5 100 FT	1000	2.5		1	265.000	**6340962**
US 5 110 FT	1100	2.5		1	278.000	**6340964**
US 5 150 FT	1500	2.5		1	395.000	**6340966**
US 5 200 FT	2000	2.5		1	506.000	**6340970**
US 5 300 FT	3000	2.5		1	795.000	**6340989**
US 5 600 FT	6000	2.5		1	1,578.000	**6340997**

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.





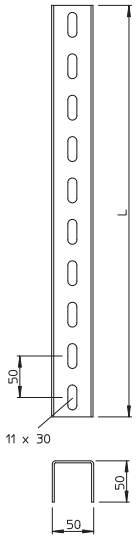
A2 2B

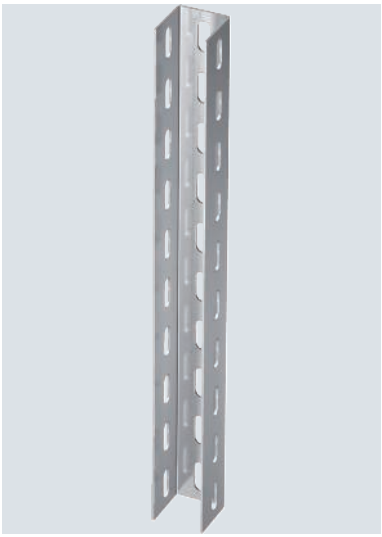
US 5 support

Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
US 5 300 A2	3000	2.5		1	737.000	**6341152**

U support in fixed lengths. Dimensions 50 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 45.





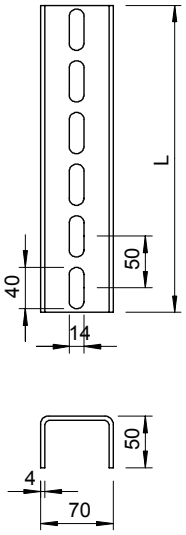
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Always indicate the item number when ordering.

US 7 support

St FT





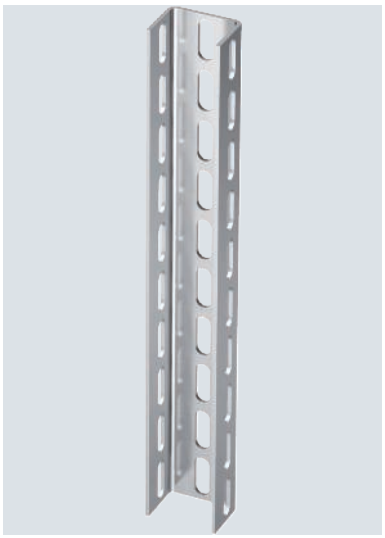
Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
US 7 20 FT	200	4		1	81.000	**6340016**
US 7 30 FT	300	4		1	121.000	**6340032**
US 7 40 FT	400	4		1	160.700	**6340059**
US 7 50 FT	500	4		1	200.900	**6340075**
US 7 60 FT	600	4		1	241.100	**6340091**
US 7 70 FT	700	4		1	281.300	**6340113**
US 7 80 FT	800	4		1	323.000	**6340148**
US 7 90 FT	900	4		1	361.700	**6340164**
US 7 100 FT	1000	4		1	416.000	**6340180**
US 7 110 FT	1100	4		1	457.000	**6340199**
US 7 120 FT	1200	4		1	484.000	**6340202**
US 7 130 FT	1300	4		1	540.000	**6340210**
US 7 140 FT	1400	4		1	580.000	**6340229**
US 7 150 FT	1500	4		1	620.000	**6340237**
US 7 160 FT	1600	4		1	660.000	**6340245**
US 7 170 FT	1700	4		1	686.000	**6340253**
US 7 180 FT	1800	4		1	750.000	**6340261**
US 7 190 FT	1900	4		1	790.000	**6340288**
US 7 200 FT	2000	4		1	803.700	**6340296**
US 7 300 FT	3000	4		1	1,250.000	**6340377**
US 7 400 FT	4000	4		1	1,660.000	**6340393**
US 7 600 FT	6000	4		1	2,490.000	**6340318**

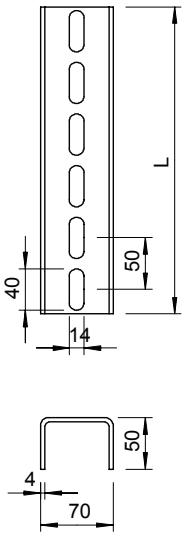
U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.

US 7 support

A2 2B





Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
US 7 300 A2	3000	4	1	1,176.300	**6341969**
US 7 600 A2	6000	4	1	2,433.000	**6341993**

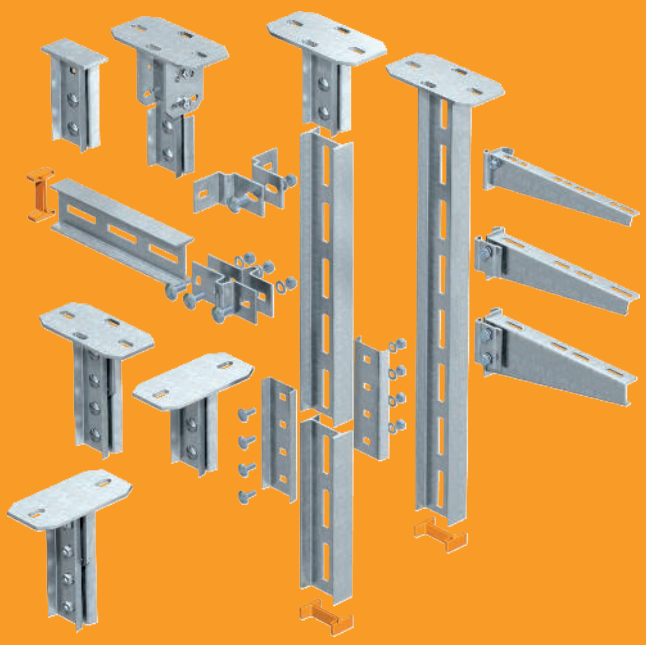
U support in fixed lengths. Dimensions 70 x 50 mm.

For bracket widths of 400 mm or more, or if the bracket is mounted at the end of a suspended support, we recommend the use of the spacer, type DSK 61.



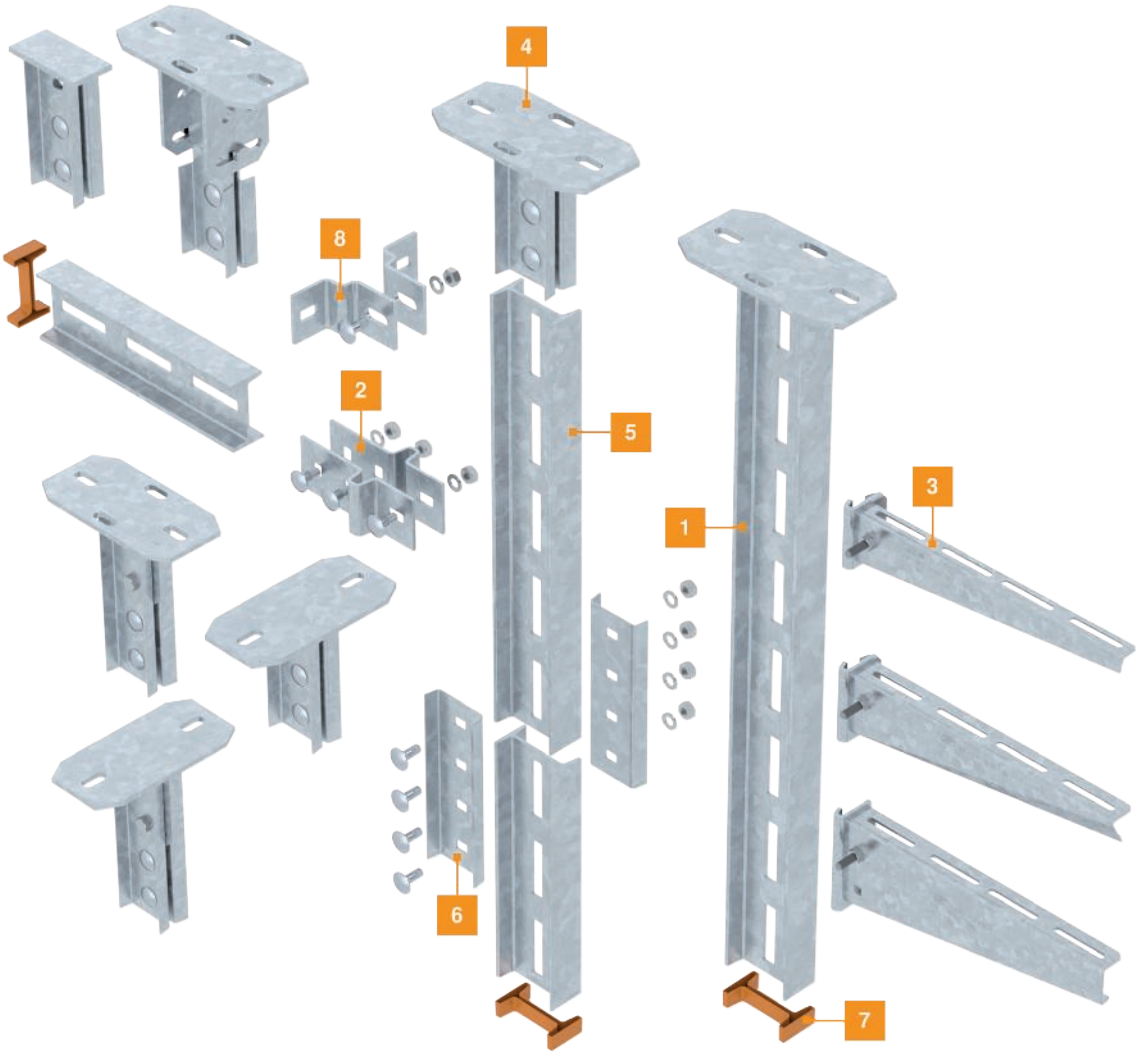
I support family

The I support system from OBO Bettermann really comes into its own in situations where high loads must be carried, large distances must be bridged and difficult routes must be implemented. The I support system fulfils all the requirements of a heavy-duty cable mounting system. The high load capacities of all the system components permit the mounting of complex structures. The comprehensive range of head plates allows the implementation of all conceivable solutions. This heavy-duty system is used with large support spacings of wide span systems or for multi-layer set-ups of standard cable trays and cable ladder systems. The combination of I supports and support brackets of type AS 15, AS 30 and AS 55 form a perfectly matched product range, the height of which can be infinitely adjusted.



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Installation principle



1	I suspended support
2	Carrier lug
3	Support bracket
4	Head plate
5	I support
6	I support connector
7	End cap
8	Fastening bracket

Mounting aid

I supports and brackets



Application on the ceiling
Standard mounting of suspended supports to concrete ceilings using bolt ties.



Head plate mounting
Fastening of the standard head plate, KI 8, for I suspended supports to concrete ceilings using bolt ties.



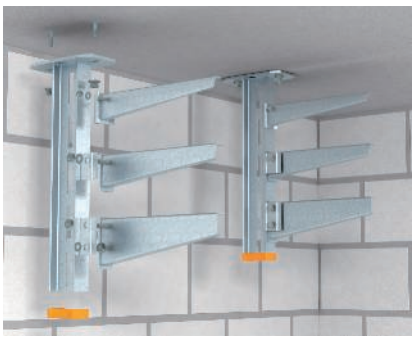
Head plate, variable (rotated through 90°)
Mounting of the variable head plate, type KI 8 VLK, rotated through 90°, to sloping concrete ceilings using bolt ties.



Variable head plate
Mounting of the variable head plate, type KI 8 VQP, to sloping concrete ceilings using bolt ties.



I support connection
Installation of the I support connector VIS 8 to connect IS 8 supports.



Bracket mounting
Installation of a three-layer cable support system on the concrete ceiling using support bracket mounting, AS 15, AS 30 and AS 55.



Adapter head plate, asymmetrical
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with suspended supports, type US 7 K and IS 8 K.



Adapter head plate, symmetrical
Symmetrical adapter head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



Wall mounting, I support
Mounting of an I support on the wall using fastening brackets, type BW 80/55, and bolt ties to accept multiple support brackets, type AS.

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Special structure
Example of installing of a special structure, consisting of I supports (ceiling/wall mounting) with transverse profile and various support brackets, type AS.



Application on steel girder
Clamp fastening of suspended supports on steel girders using various chuck jaws, lengthwise or transverse to the steel girder.



Direct girder clamping
Direct girder clamping of an I suspended support with heavy-duty chuck jaw, type TKS-S-30. Route in longitudinal direction of steel girder.



Steel clamping with C profile, route in longitudindal direction
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route along steel girder.



Steel clamping with C profile, route in transverse direction
I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route transverse to steel girder.



Head plate, variable (transverse)
Mounting of the variable, transversely adjustable head plate, type KI 8 VLP, on rising or falling steel structures with profile rail, type MS 5030, and clamping angles, type KWH.

St FT

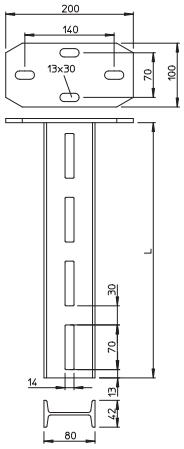
IS 8 support

Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 K 20 FT	200	4	12	1	205.900	**6361021**
IS 8 K 30 FT	300	4	12	1	263.900	**6361056**
IS 8 K 40 FT	400	4	12	1	321.900	**6361072**
IS 8 K 50 FT	500	4	12	1	379.900	**6361099**
IS 8 K 60 FT	600	4	12	1	437.900	**6361110**
IS 8 K 70 FT	700	4	12	1	495.900	**6361137**
IS 8 K 80 FT	800	4	12	1	553.900	**6361153**
IS 8 K 90 FT	900	4	12	1	611.900	**6361188**
IS 8 K 100 FT	1000	4	12	1	669.800	**6361218**
IS 8 K 110 FT	1100	4	12	1	727.800	**6361234**
IS 8 K 120 FT	1200	4	12	1	785.800	**6361250**
IS 8 K 130 FT	1300	4	12	1	843.800	**6361277**
IS 8 K 140 FT	1400	4	12	1	901.800	**6361293**
IS 8 K 150 FT	1500	4	12	1	959.800	**6361315**
IS 8 K 160 FT	1600	4	12	1	1,017.800	**6361331**
IS 8 K 170 FT	1700	4	12	1	1,075.800	**6361366**
IS 8 K 180 FT	1800	4	12	1	1,133.800	**6361382**
IS 8 K 200 FT	2000	4	12	1	1,249.700	**6361420**



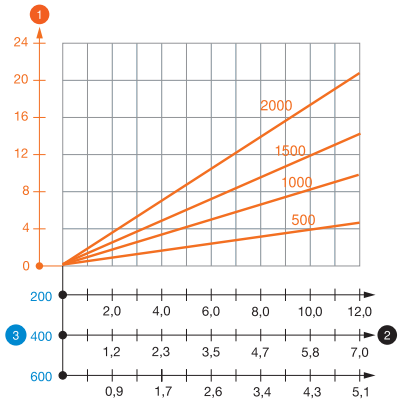
I support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.



Load

Load diagram, I support, type IS 8 K

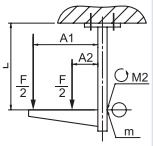


1. Bending of the end of the suspended support at permitted bracket load
2. Permitted bracket load in kN without man load
3. Bracket length in mm

— Load curves with support lengths in mm

Testing of the bending torque on the support with bracket

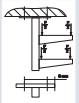
Item on test	IS 8 K 80 AS 55 101	IS 8 K 140 AS 55 101	IS 8 K 180 AS 55 101
Deformation measuring point m			
A1 lever arm	1,010 mm	1,010 mm	1,010 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.847 kN	3.025 kN	3.025 kN
Bending torque M2 (SWL)	1,600 Nm	1,700 Nm	1,700 Nm



According to IEC 61537, Chapter 10.8.2.3

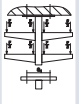
Characteristic anchor load values for IS 8 K suspended support

Single-sided load



Anchor type	Max. load [kN] Bracket width [mm] 110	210	310	410	510	610
BZ3 10x90/0-30	4,84	3,64	2,92	2,44	2,10	1,83
BZ3 12x110/0-35	6,60	5,02	4,04	3,37	2,89	2,53

Double-sided load



Anchor type	Max. load [kN] Bracket width [mm] 110%	210	310	410	510	610
BZ3 10x90/0-30	9,99	8,41	7,28	6,15	5,50	4,97
BZ 12-15-35/110	13,59	11,49	9,93	9,00	7,50	6,81

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 14 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

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IS 8 support

St FT



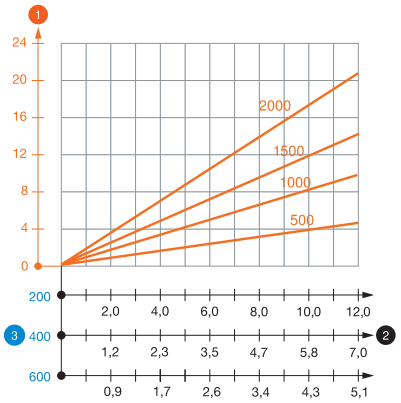
Type	Length mm	Material thickness mm	Tensile load kN	Pack Piece	Weight kg/100 pc.	Item no.
IS 8 K 300 FT	3000	4	12	1	1,833.000	**6361692**

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.

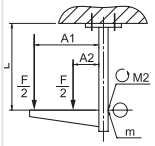
I support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

Load

Load diagram, I support, type IS 8 K



1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm

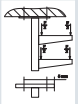


Testing of the bending torque on the support with bracket

Item on test	IS 8 K 80	IS 8 K 140	IS 8 K 180
	AS 55 101	AS 55 101	AS 55 101
Deformation measuring point m			
A1 lever arm	1,010 mm	1,010 mm	1,010 mm
A2 lever arm	10 mm	10 mm	10 mm
Length L	500 mm	1,000 mm	1,500 mm
Force F	2.847 kN	3.025 kN	3.025 kN
Bending torque M2 (SWL)	1,600 Nm	1,700 Nm	1,700 Nm

According to IEC 61537, Chapter 10.8.2.3

Characteristic anchor load values for IS 8 K suspended support



Single-sided load

Anchor type	Max. load [kN] Bracket width [mm] 110	210	310	410	510	610
BZ3 10x90/0-30	4,84	3,64	2,92	2,44	2,10	1,83
BZ3 12x110/0-35	6,60	5,02	4,04	3,37	2,89	2,53



Double-sided load

Anchor type	Max. load [kN] Bracket width [mm] 110%	210	310	410	510	610
BZ3 10x90/0-30	9,99	8,41	7,28	6,15	5,50	4,97
BZ 12-15-35/110	13,59	11,49	9,93	9,00	7,50	6,81

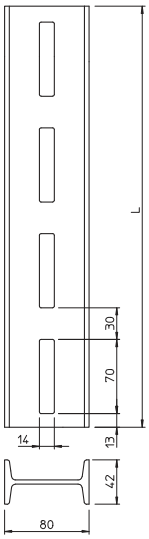
Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 14 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

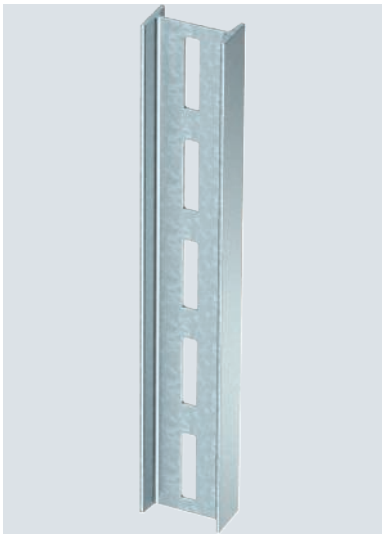
St FT

IS 8 support

Type	Length mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
IS 8 30 FT	300	4		1	171.000	**6337031**
IS 8 200 FT	2000	4		1	1,152.000	**6337236**
IS 8 300 FT	3000	4		1	1,730.000	**6337244**
IS 8 600 FT	6000	4		1	3,460.000	**6337252**

I support in fixed lengths. Dimensions 80 x 42 mm.
Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 I support. The height of the brackets is infinitely adjustable.



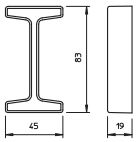


PE

End cap

Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
IS 8 KS OR	Pastel orange		20	0.705	**6338519**

End cap to cover the ends of IS 8 supports.



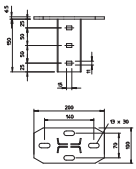


St FT

Head plate, longitudinal

Type		Pack Piece	Weight kg/100 pc.	Item no.
KI 8 FT		1	155.000	**6347053**

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Head plate for mounting on IS 8 support. The cable trays and ladders run in a straight direction.



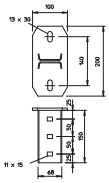


St FT

Head plate, transverse

Type		Pack Piece	Weight kg/100 pc.	Item no.
KI 8 NOK FT		1	158.400	**6347061**

Including appropriate fastening material.
Limit the length of the support to max. 2,000 mm.
Head plate for installation in IS 8 support. The cable trays and ladders run in a transverse direction.

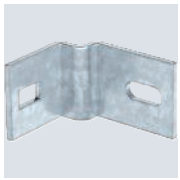


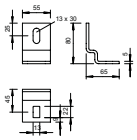


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Mounting angle BW 80

St FT





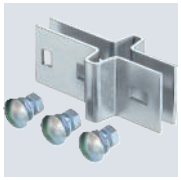
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 80 55 FT	10	32.900	6019528

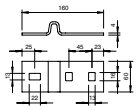
The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.
Including fastening bolt M12x30.

Mounting angle for mounting IS 8 supports on the wall.

Support strap

St FT





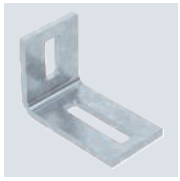
Type	Pack Piece	Weight kg/100 pc.	Item no.
AHIS 8 FT	10	89.900	6019064

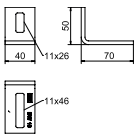
Including appropriate fastening material.

Support strap for right-angled connection of I supports.

BW 10 fastening bracket

St FT





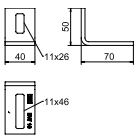
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 10 FT	10	14.500	6019480

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.

BW 10 fastening bracket

A2 2B



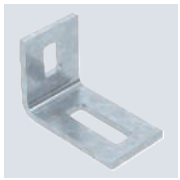


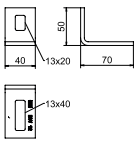
Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 10 A2	10	20.100	6019484

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.

BW 12 fastening bracket

St FT





Type	Pack Piece	Weight kg/100 pc.	Item no.
BW 12 FT	10	13.970	6019500

Fastening bracket for fastening supports, vertical ladders and constructions on walls, ceilings or steel scaffolding.

System description

TP supports and brackets

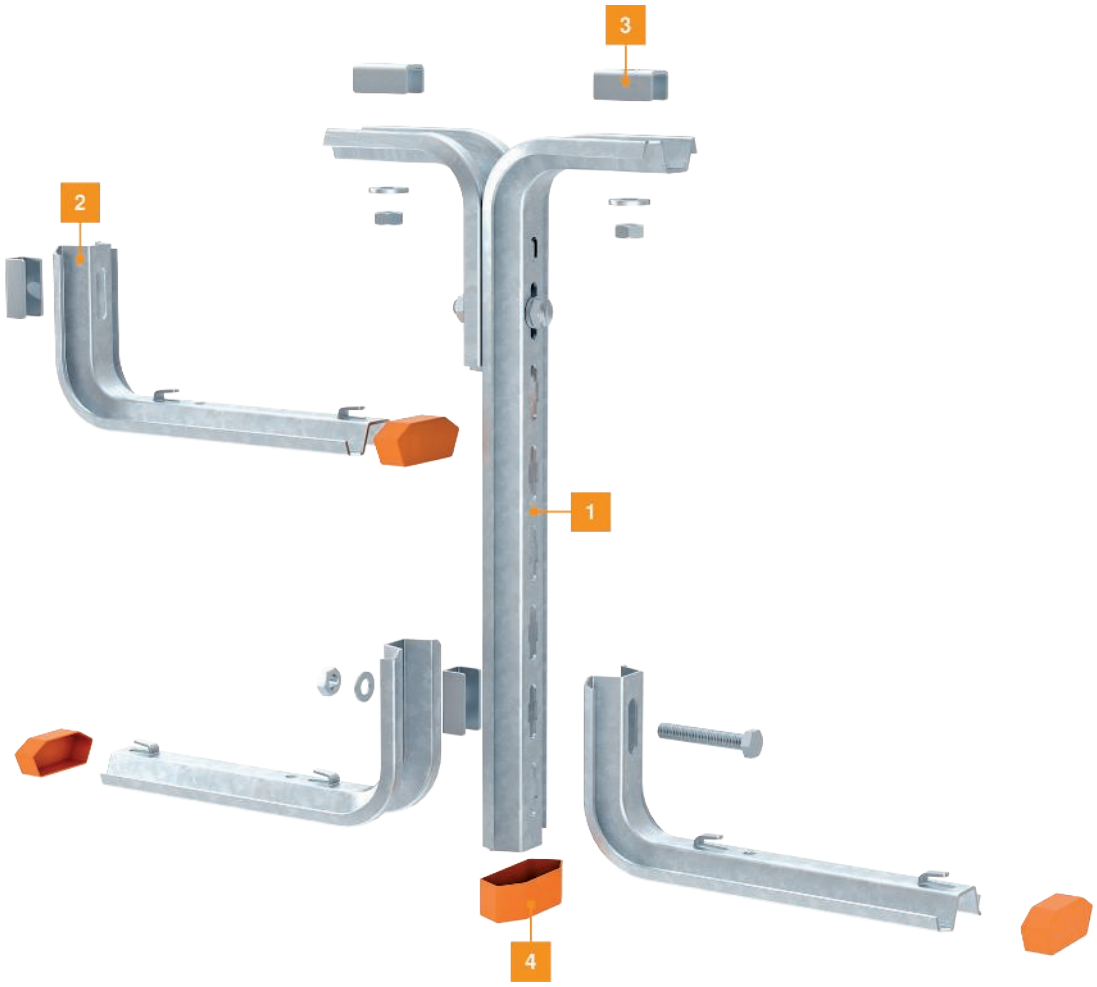


The TP system is a range of light supports and brackets. This product range, which consists of TP suspended supports and brackets, can be used universally as ceiling and wall mounting.

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Installation principle

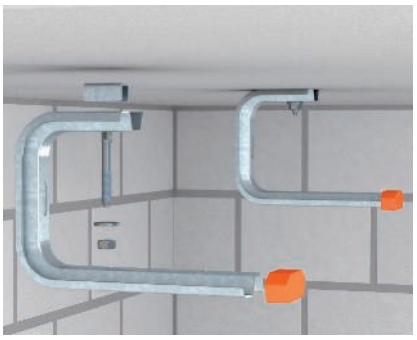
TP supports and brackets



1	TP suspended support
2	TP support/wall and support brackets
3	Spacer
4	End cap

Mounting aid

TP supports and brackets



Ceiling mounting of TP wall and ceiling bracket
Universal mounting of the TPD wall and ceiling bracket on the ceiling (with DS 4 spacer). Maximum tray width 300 mm.



Installation of TP support with single-sided bracket fixing
Ceiling mounting of a TP support with spacer DS 4 and one-sided bracket mounting. Maximum tray width 300 mm.



Complete mounting of a TP system
Installation of the TP support with head reinforcement and double-sided bracket mounting and mounting directly on the wall.

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TP support

St FS



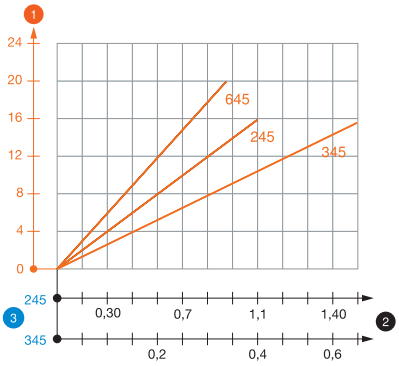
If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.
Important: only use brackets of length 345 mm or less.

TP support for fastening to horizontal concrete ceilings.

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPS 445 FS	445	1	73.000	**6364322**
TPS 545 FS	545	1	80.000	**6364349**
TPS 645 FS	645	1	99.000	**6364365**

Load

Load diagram, TP supports, type TPS



1 Bending of the end of the suspended support at permitted bracket load
2 Permitted bracket load in kN without man load
3 Bracket length in mm
— Load curves with support lengths in mm

Characteristic anchor load values for TP support

Single-sided load



Anchor type	Max. load [kN] Bracket width [mm] 145	245	345
BZ3 8x75/0-20	1,48	0,93	0,68
BZ3 10x90/0-30	1,48	0,93	0,68

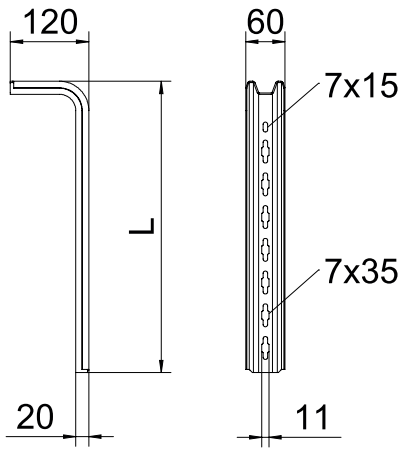
Double-sided load



Anchor type	Max. load [kN] Bracket width [mm] 145	245	345
BZ3 8x75/0-20	2,38	1,84	1,55
BZ3 10x90/0-30	2,38	1,50	1,50

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing ai = 17 cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

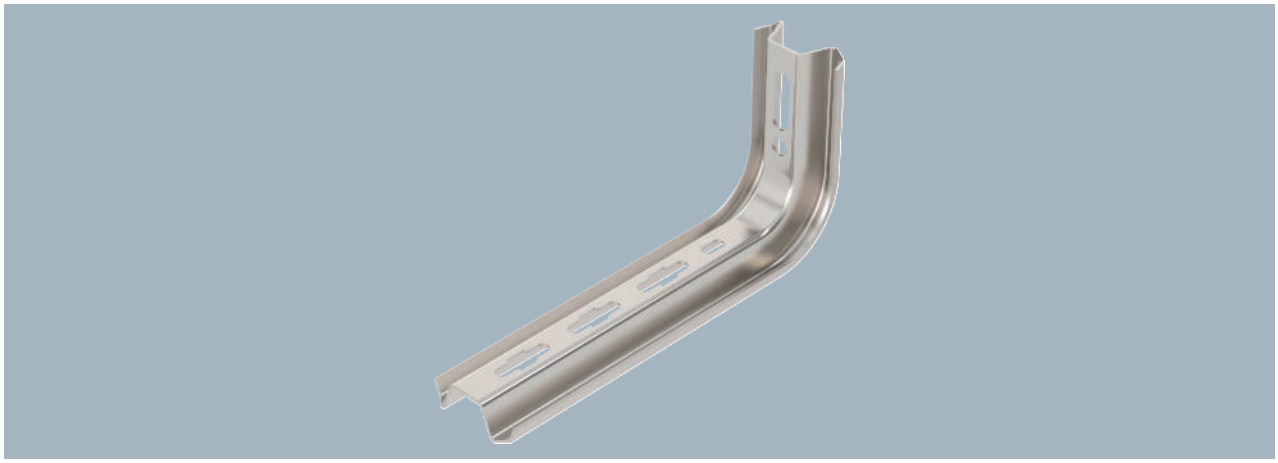
Dimensions



Type	Dim. L mm
TPS 445 FS	445
TPS 545 FS	545
TPS 645 FS	645

A2 2B

TP support/wall and support bracket

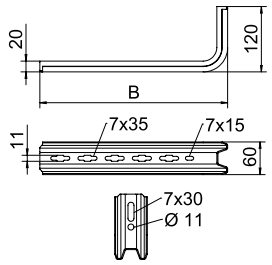


If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support / bracket for the fastening to horizontal concrete ceilings and walls.

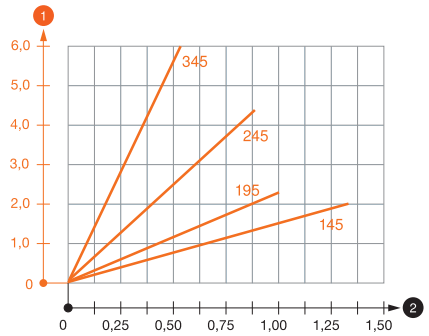
Type	for width mm		Pack Piece	Weight kg/100 pc.	Item no.
TPSA 145 A2	100		1	32.000	**6364871**
TPSA 245 A2	200		1	45.000	**6364876**
TPSA 345 A2	300		1	59.000	**6364881**

Dimensions



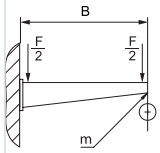
Type	Dim. B mm
TPSA 145 A2	145
TPSA 245 A2	245
TPSA 345 A2	345

Load



Load diagram, bracket TPSA

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm



Characteristic anchor load values for TP bracket - Wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 A2	0.15 kN	145 mm
TPSA 245 A2	0.950 kN	245 mm
TPSA 345 A2	0.55 kN	345 mm

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP bracket

Wall fastening				
	Max. load [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ-U 8-30/95	1,00	1,30	0,70	2,40
BZ-U 10-30/110	1,50	1,00	0,90	0,55

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

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TPSA TP support/wall and support bracket

St FS



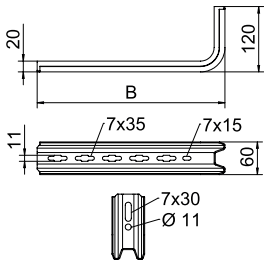
Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSA 145 FS	100	1	32.300	**6364101**
TPSA 245 FS	200	1	46.000	**6364209**
TPSA 345 FS	300	1	60.000	**6364306**

If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support/bracket for fastening to horizontal concrete ceilings and walls.

Type	Dim. B mm
TPSA 145 FS	145
TPSA 245 FS	245
TPSA 345 FS	345

Dimensions



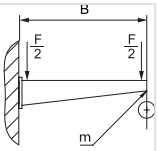
Load diagram, bracket TPSA

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FS	1.5 kN	145 mm
TPSA 245 FS	0.9 kN	245 mm
TPSA 345 FS	0.55 kN	345 mm
TPSA 245 FS SP	0.9 kN	245 mm

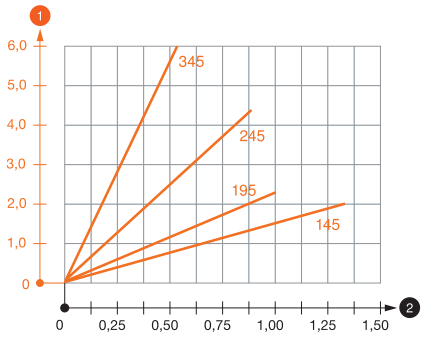


Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP bracket

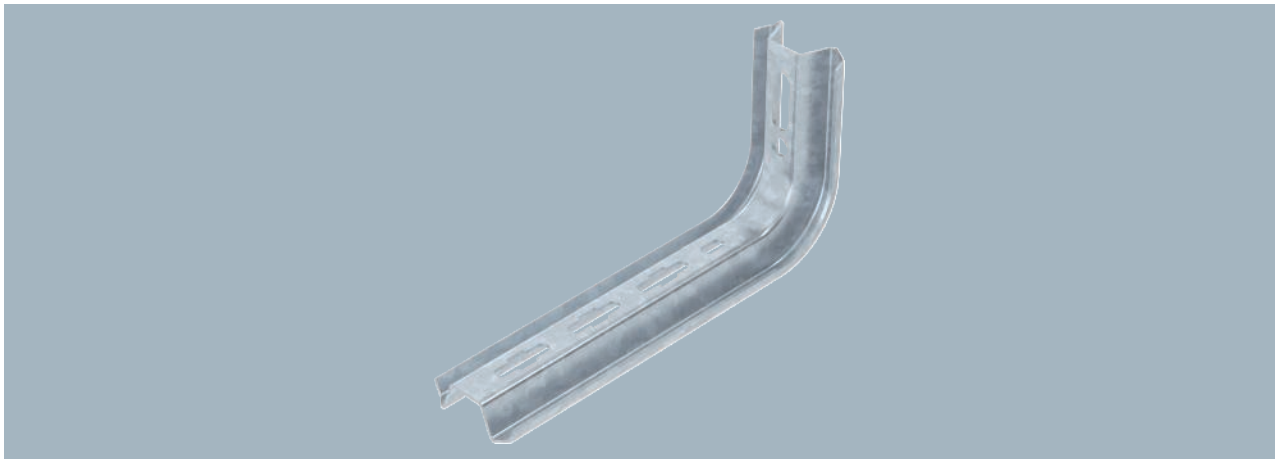
Wall fastening					
		Max. load [kN]			
		Bracket width [mm]			
	Anchor type	145	195	245	345
	BZ3 10x90/0-30	1,30	0,93	0,60	0,55

Load



St FT

TPSA TP support/wall and support bracket

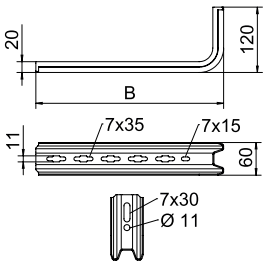


If the profile is fastened directly to the ceiling or the profile is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

TP support/bracket for fastening to horizontal concrete ceilings and walls.

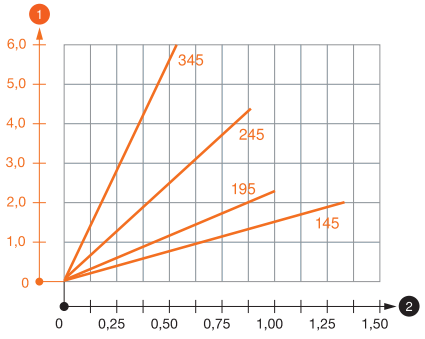
Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSA 145 FT	100	1	33.000	**6364659**
TPSA 195 FT	150	1	40.000	**6364683**
TPSA 245 FT	200	1	47.000	**6364667**
TPSA 345 FT	300	1	62.000	**6364675**

Dimensions



Type	Dim. B mm
TPSA 145 FT	145
TPSA 195 FT	195
TPSA 245 FT	245
TPSA 345 FT	345

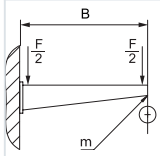
Load



1 Bending of the bracket tip at permitted bracket load

2 Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

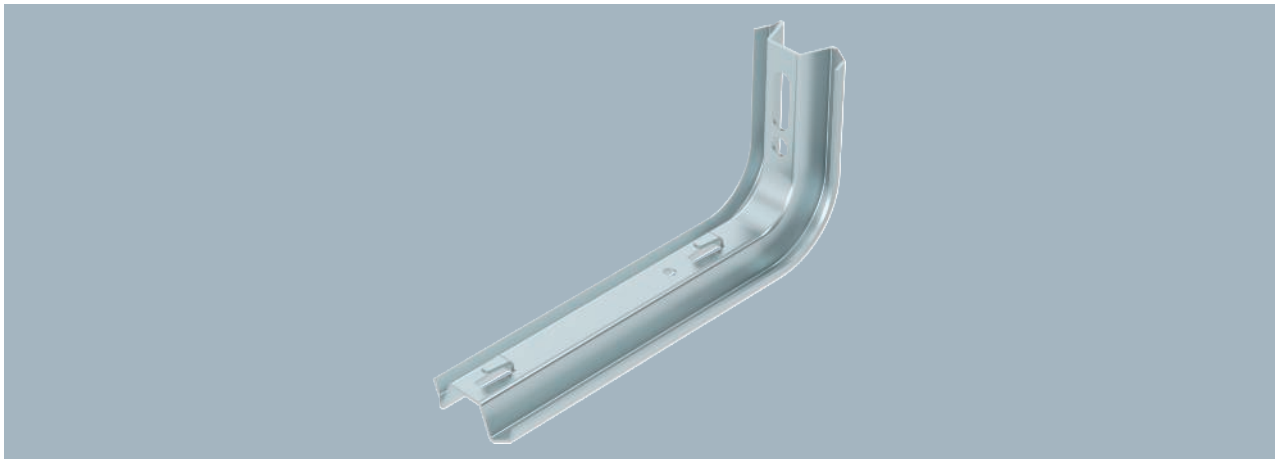
Characteristic anchor load values for TP bracket

	Wall fastening			
	Max. load [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ3 10x90/0-30	1,30	0,93	0,60	0,68

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TPSAG TP support/wall and support bracket

St FS



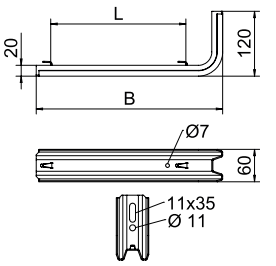
Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSAG 145 FS	100	1	30.540	**6366015**
TPSAG 195 FS	150	1	41.000	**6366023**
TPSAG 245 FS	200	1	48.000	**6366031**
TPSAG 345 FS	300	1	61.000	**6366066**

If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. L mm
TPSAG 145 FS	145	50
TPSAG 195 FS	195	100
TPSAG 245 FS	245	150
TPSAG 345 FS	345	250

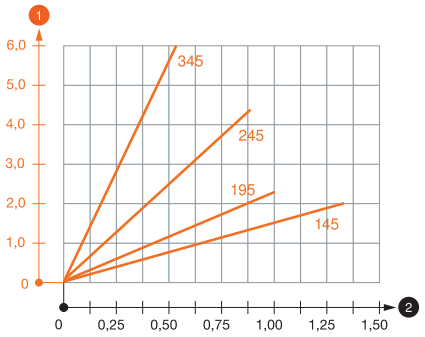
Dimensions



Load diagram, bracket TPSAG

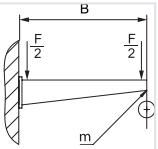
Load

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm



Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm



Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

Characteristic anchor load values for TP bracket

	Wall fastening			
	Max. load [kN]			
	Bracket width [mm]			
Anchor type	145	195	245	345
BZ3 10x90/0-30	1,30	0,93	0,60	0,55

St FT

TPSAG TP support/wall and support bracket

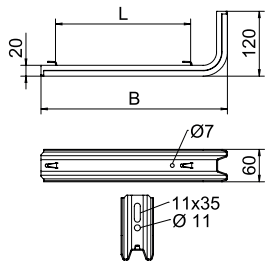


If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs.

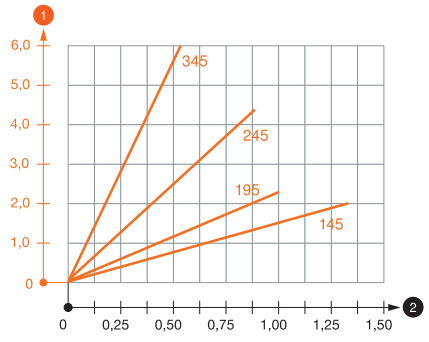
Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSAG 145 FT	100	1	33.000	**6366131**
TPSAG 195 FT	150	1	42.000	**6366135**
TPSAG 245 FT	200	1	49.000	**6366139**
TPSAG 345 FT	300	1	65.000	**6366143**

Dimensions



Type	Dim. B mm	Dim. L mm
TPSAG 145 FT	145	50
TPSAG 195 FT	195	100
TPSAG 245 FT	245	150
TPSAG 345 FT	345	250

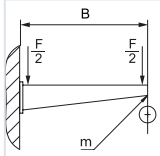
Load



Load diagram, bracket TPSAG

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm



Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSAG 145 FT	0.15 kN	145 mm
TPSAG 195 FT	1 kN	195 mm
TPSAG 245 FT	0.950 kN	245 mm
TPSAG 345 FT	0.55 kN	345 mm

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

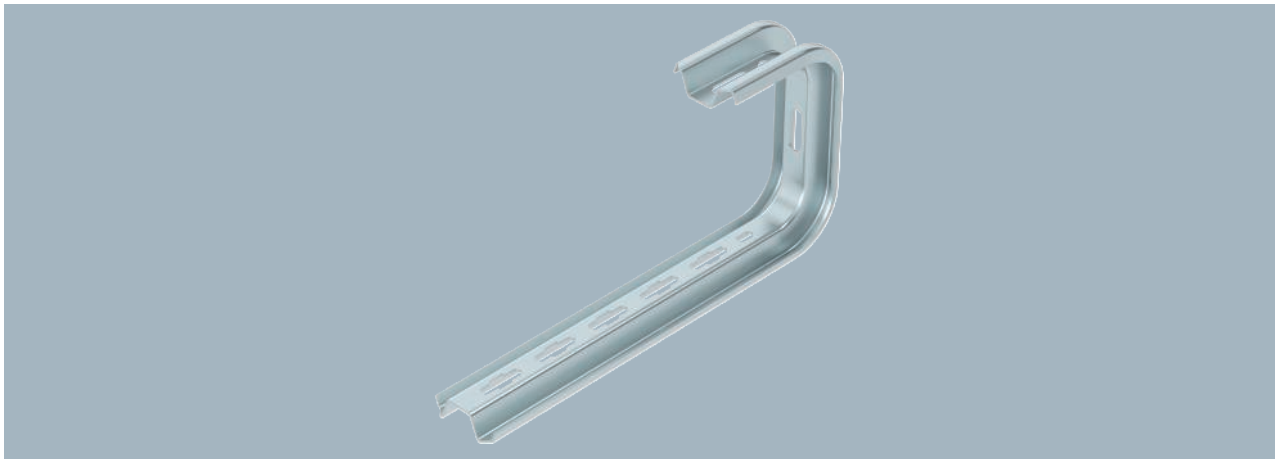
Characteristic anchor load values for TP bracket

	Wall fastening			
	Max. load [kN]			
Anchor type	Bracket width [mm]			
	145	195	245	345
BZ3 10x90/0-30	1,30	0,93	0,60	0,55

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TP wall and ceiling bracket

St FS



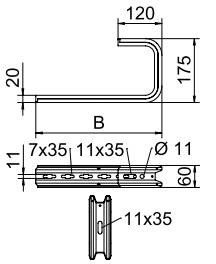
Type	for width mm	F in kN ceiling kN	F in kN wall kN		Pack Piece	Weight kg/100 pc.	Item no.
TPD 145 FS	100	1.3	1.4		1	48.000	**6363806**
TPD 245 FS	200	0.8	0.87		1	66.000	**6363814**
TPD 345 FS	300	0.5	0.55		1	78.000	**6363822**
TPD 445 FS	400	0.35	0.45		1	93.300	**6363826**
TPD 545 FS	500	0.25	0.35		1	107.000	**6363829**

Important! If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket for universal use.

Type	Dim. B mm
TPD 145 FS	145
TPD 245 FS	245
TPD 345 FS	345
TPD 445 FS	445
TPD 545 FS	545

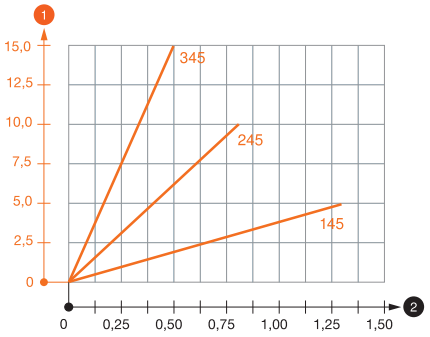
Dimensions



Load diagram, ceiling bracket TPD

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm

Load



Characteristic anchor load values for TPD wall and ceiling bracket

Wall fastening



Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ3 8x95/0-40	0,56	0,53	0,50	0,47	0,44
BZ3 10x90/0-30	1,03	0,96	0,68		0,54

Ceiling fastening



Anchor type	Max. load [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,48	0,93	2,40	0,35	0,25
BZ3 10x90/0-30	1,45	0,93	2,40	0,35	0,25

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

St FT

TP wall and ceiling bracket

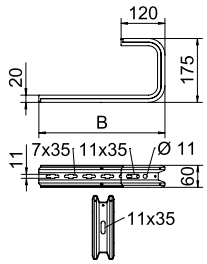


Important! If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket for universal structural fastening.

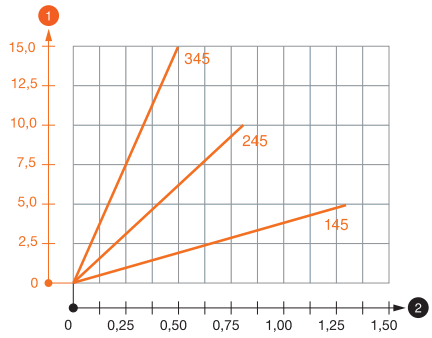
Type	for width mm	F in kN ceiling kN	F in kN wall kN	Pack Piece	Weight kg/100 pc.	Item no.
TPD 145 FT	100	1.3	1.4	1	54.000	**6363861**
TPD 245 FT	200	0.8	0.87	1	69.000	**6363865**
TPD 345 FT	300	0.5	0.55	1	83.000	**6363869**

Dimensions



Type	Dim. B mm	Dim. H mm
TPD 145 FT	145	175
TPD 245 FT	245	175
TPD 345 FT	345	175

Load



Load diagram, ceiling bracket TPD

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load

— Load curve with bracket lengths in mm

Characteristic anchor load values for TPD wall and ceiling bracket

Wall fastening



Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ3 8x95/0-40	0,56	0,53	0,50	0,47	0,44
BZ3 10x90/0-30	1,03	0,96	0,68	0,54	

Ceiling fastening



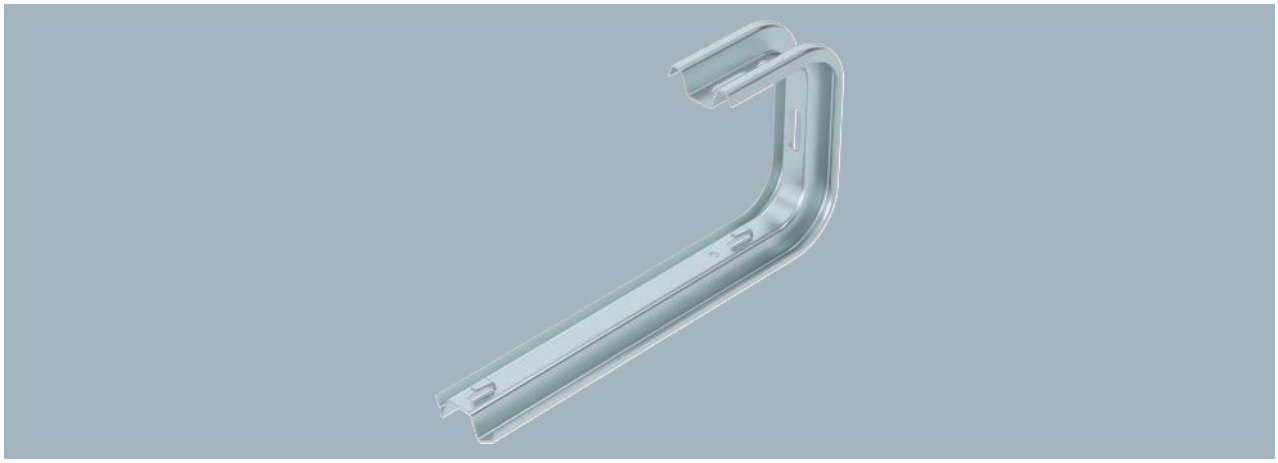
Anchor type	Max. load [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,48	0,93	2,40	0,35	0,25
BZ3 10x90/0-30	1,45	0,93	2,40	0,35	0,25

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

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TP wall and ceiling bracket

St FS



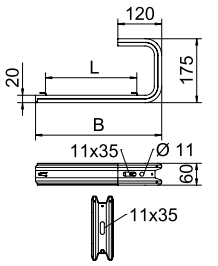
Type	for width mm	F in kN ceiling kN	F in kN wall kN	Pack Piece	Weight kg/100 pc.	Item no.
TPDG 145 FS	100	1.3	1.4	6	52.000	**6365906**
TPDG 195 FS	150	0.95	1.05	6	60.000	**6365914**
TPDG 245 FS	200	0.8	0.87	5	67.000	**6365922**
TPDG 345 FS	300	0.5	0.55	5	81.000	**6365949**

If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. L mm
TPDG 145 FS	145	50
TPDG 195 FS	195	100
TPDG 245 FS	245	150
TPDG 345 FS	345	250

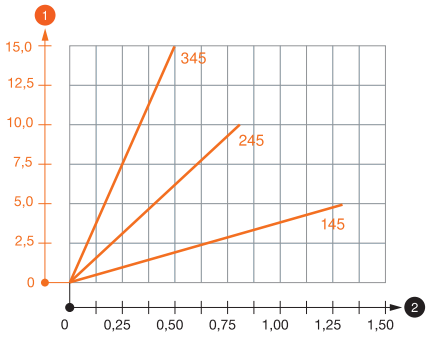
Dimensions



Load diagram, ceiling bracket TPDG

Load

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm



Characteristic anchor load values for TPDG wall and ceiling bracket

Wall fastening

Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ3 8x95/0-40	0,56	0,53	0,50	0,47	0,44
BZ3 10x90/0-30	1,03	0,96	0,68	0,54	

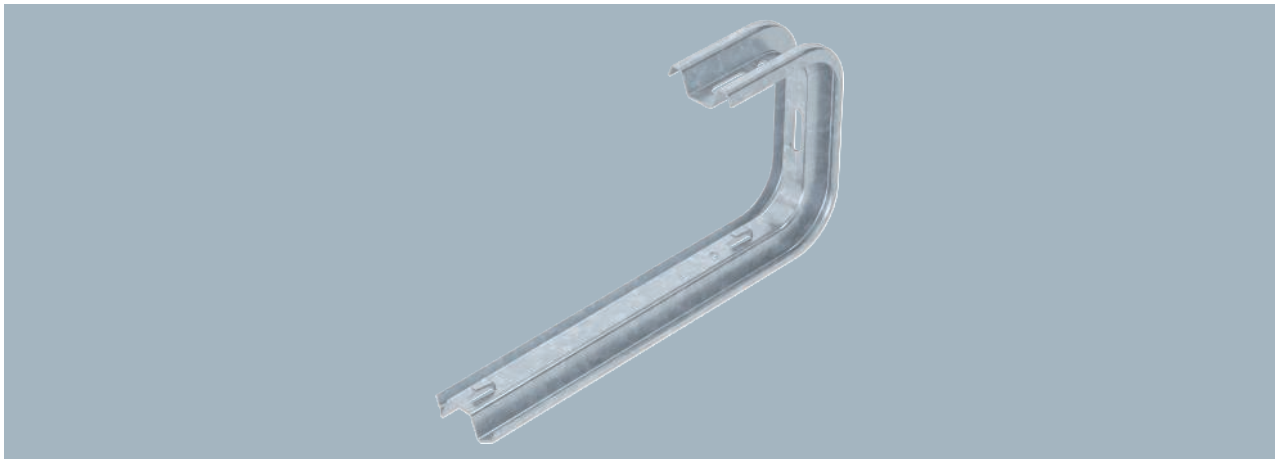
Ceiling fastening

Anchor type	Max. load [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,48	0,93	0,50	0,35	0,25
BZ3 10x90/0-30	1,45	0,93	0,50	0,35	0,25

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

St FT

TP wall and ceiling bracket

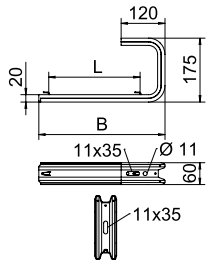


If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

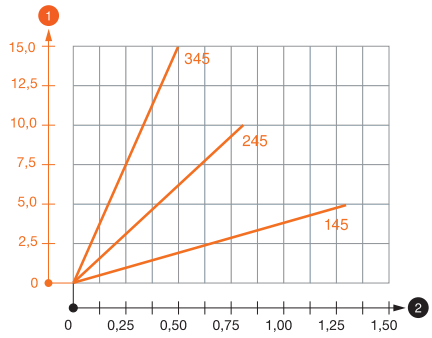
Type	for width mm	F in kN ceiling kN	F in kN wall kN	Pack Piece	Weight kg/100 pc.	Item no.
TPDG 145 FT	100	1.3	1.4	6	55.000	**6365977**
TPDG 245 FT	200	0.8	0.87	5	70.000	**6365981**
TPDG 345 FT	300	0.5	0.55	5	85.000	**6365985**

Dimensions



Type	Dim. B mm	Dim. L mm
TPDG 145 FT	145	50
TPDG 245 FT	245	150
TPDG 345 FT	345	250

Load



Load diagram, ceiling bracket TPDG

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm

Characteristic anchor load values for TPDG wall and ceiling bracket

Wall fastening

Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ3 8x95/0-40	0,56	0,53	0,50	0,47	0,44
BZ3 10x90/0-30	1,03	0,96	0,68	0,54	

Ceiling fastening

Anchor type	Max. load [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30-41/95	1,48	0,93	0,50	0,35	0,25
BZ3 10x90/0-30	1,45	0,93	0,50	0,35	0,25

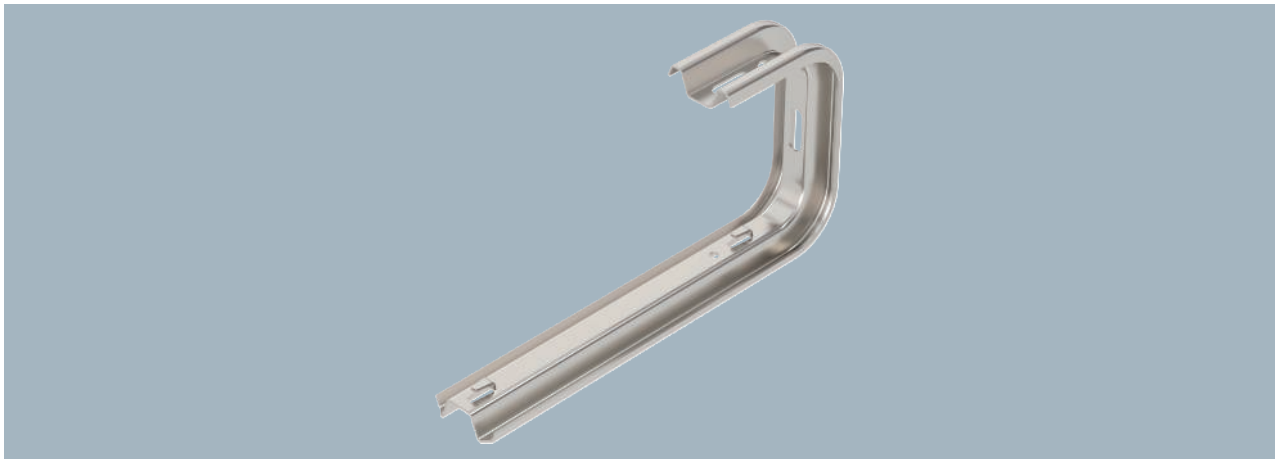
Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

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Always indicate the item number when ordering.

TP wall and ceiling bracket

A2 2B



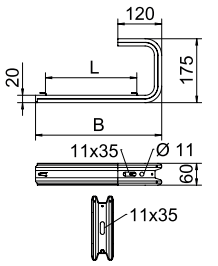
Type	for width mm	F in kN ceiling kN	F in kN wall kN	Pack Piece	Weight kg/100 pc.	Item no.
TPDG 145 A2	100	1.3	1.4	6	52.000	**6365989**
TPDG 195 A2	150	0.95	1.05	6	60.000	**6365991**
TPDG 245 A2	200	0.8	0.87	5	67.000	**6365993**
TPDG 345 A2	300	0.5	0.55	5	81.000	**6365995**

If the wall and ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.
Max. side height of the cable support system 60 mm.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. L mm
TPDG 145 A2	145	50
TPDG 195 A2	195	100
TPDG 245 A2	245	150
TPDG 345 A2	345	250

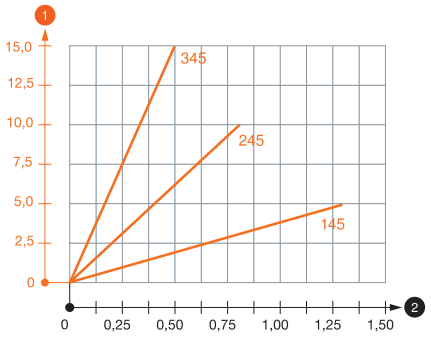
Dimensions



Load diagram, ceiling bracket TPDG

Load

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm



Characteristic anchor load values for TPDG wall and ceiling bracket

Wall fastening

Anchor type	Max. load [kN] Bracket length [mm] 145	245	345	445	545
BZ3 8x95/0-40	0,56	0,53	0,50	0,47	0,44
BZ3 10x90/0-30	1,03	0,96	0,68	0,54	

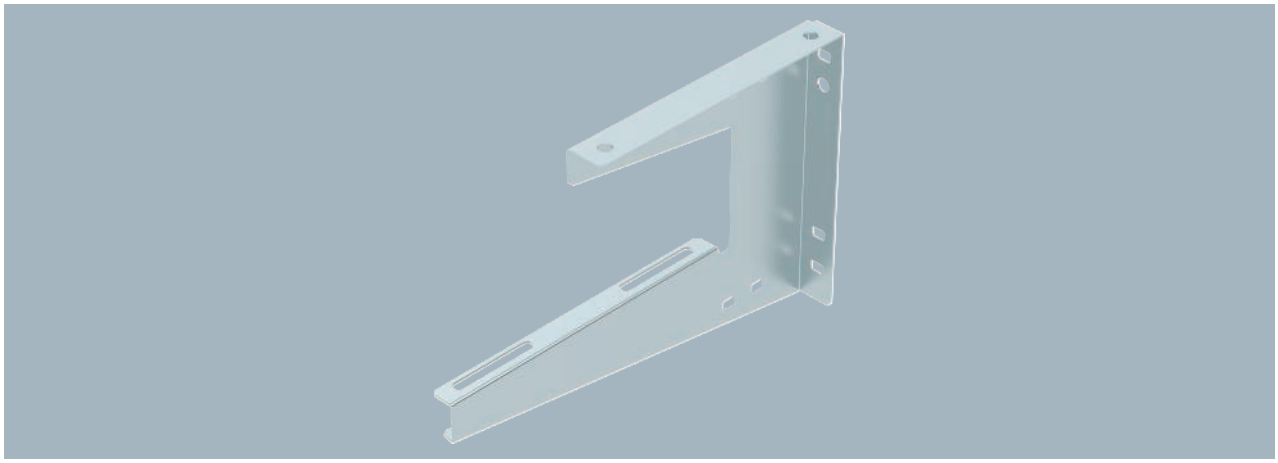
Ceiling fastening

Anchor type	Max. load [kN] Bracket width [mm] 145	245	345	445	545
BZ-U 8-30/95	1,48	0,93	0,50	0,35	0,25
BZ3 10x90/0-30	1,45	0,93	0,50	0,35	0,25

Max. total load F = cable weight + cable tray + ceiling clamp. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.

St FS

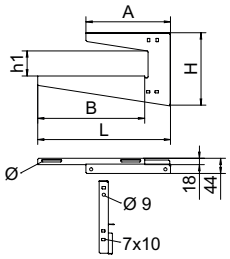
Wall and ceiling bracket



Wall and ceiling bracket for universal structural fastening.

Type	for width mm		Pack Piece	Weight kg/100 pc.	Item no.
WDB L 50 FS	50		1	11.000	**6363700**
WDB L 100 FS	100		1	15.000	**6363702**
WDB L 150 FS	150		1	24.000	**6363704**
WDB L 200 FS	200		1	33.000	**6363706**
WDB L 300 FS	300		1	52.000	**6363708**
WDB L 400 FS	400		1	73.000	**6363710**

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. H mm	Dim. h1 mm	Dim. L mm
WDB L 50 FS	115	60	170	92	130
WDB L 100 FS	145	110	179	88	185
WDB L 150 FS	170	160	186	84	235
WDB L 200 FS	195	210	194	80	285
WDB L 300 FS	245	310	210	73	385
WDB L 400 FS	300	410	226	65	490

Load

Wall fastening



Anchor type	Max. load [kN] Bracket length [mm] 50	100	150	200	300	400
BZ-U 8-30-41/95	0,40	0,25	0,22	0,30	0,20	0,12

Ceiling fastening



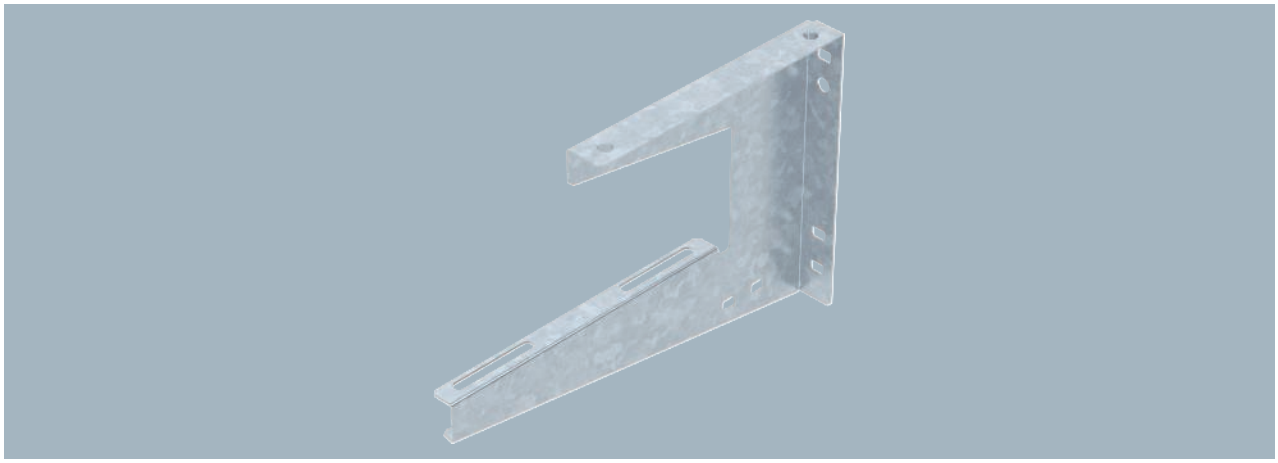
Anchor type	Max. load [kN] Bracket length [mm] 50	100	150	200	300	400
BZ-U 8-30-41/95	0,40	0,25	0,22	0,30	0,20	0,12

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Always indicate the item number when ordering.

Wall and ceiling bracket

St FT

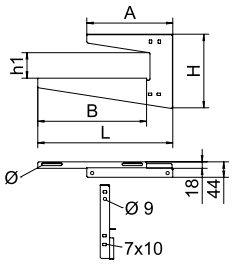


Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
WDB L 50 FT	50	1	12.200	**6363720**
WDB L 100 FT	100	1	17.000	**6363722**
WDB L 150 FT	150	1	26.000	**6363724**
WDB L 200 FT	200	1	33.000	**6363726**
WDB L 300 FT	300	1	28.000	**6363728**
WDB L 400 FT	400	1	78.000	**6363730**

Wall and ceiling bracket for universal structural fastening.

Type	Dim. A mm	Dim. B mm	Dim. H mm	Dim. h1 mm	Dim. L mm
WDB L 50 FT	115	60	170	92	130
WDB L 100 FT	145	110	179	88	185
WDB L 150 FT	170	160	186	84	235
WDB L 200 FT	195	210	194	80	285
WDB L 300 FT	245	310	210	73	385
WDB L 400 FT	300	410	226	65	490

Dimensions



Load

Wall fastening



Anchor type	Max. load [kN] Bracket length [mm] 50	100	150	200	300	400
BZ-U 8-30-41/95	0,40	0,25	0,22	0,30	0,20	0,12

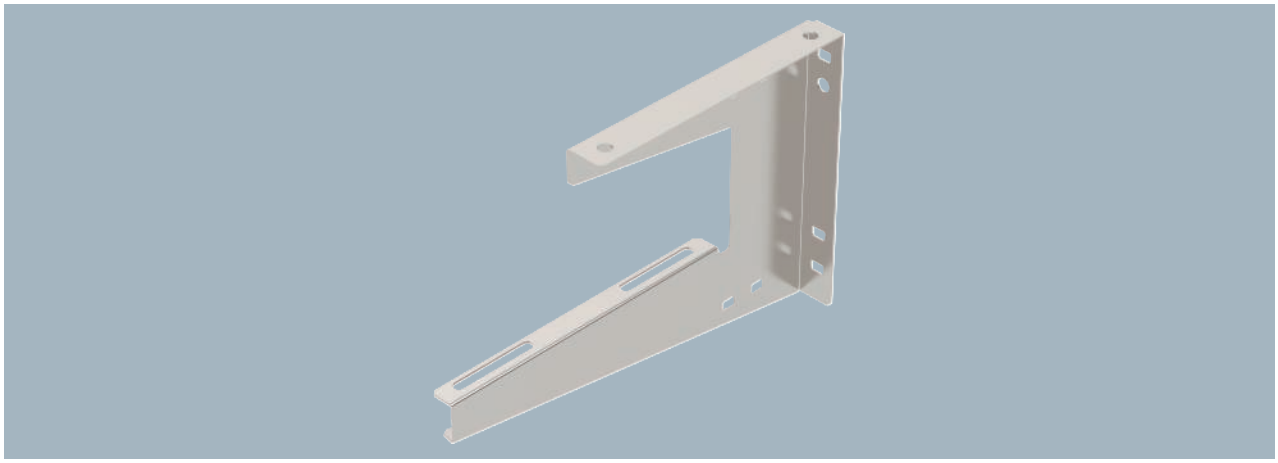
Ceiling fastening



Anchor type	Max. load [kN] Bracket length [mm] 50	100	150	200	300	400
BZ-U 8-30-41/95	0,40	0,25	0,22	0,30	0,20	0,12

A2 2B

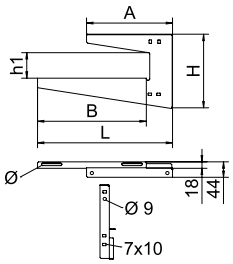
Wall and ceiling bracket



Wall and ceiling clamp for universal structural fastening.

Type	for width mm		Pack Piece	Weight kg/100 pc.	Item no.
WDB L 50 A2	50		1	11.000	**6363740**
WDB L 100 A2	100		1	15.000	**6363742**
WDB L 150 A2	150		1	24.000	**6363744**
WDB L 200 A2	200		1	33.000	**6363746**
WDB L 300 A2	300		1	52.000	**6363748**
WDB L 400 A2	400		1	73.000	**6363750**

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. H mm	Dim. h1 mm	Dim. L mm
WDB L 50 A2	115	60	170	92	130
WDB L 100 A2	145	110	179	88	185
WDB L 150 A2	170	160	186	84	235
WDB L 200 A2	195	210	194	80	285
WDB L 300 A2	245	310	210	73	385
WDB L 400 A2	300	410	226	65	490

Load

Wall fastening



Anchor type	Max. load [kN] Bracket length [mm] 50	100	150	200	300	400
BZ-U 8-30-41/95	0,40	0,25	0,22	0,30	0,20	0,12

Ceiling fastening



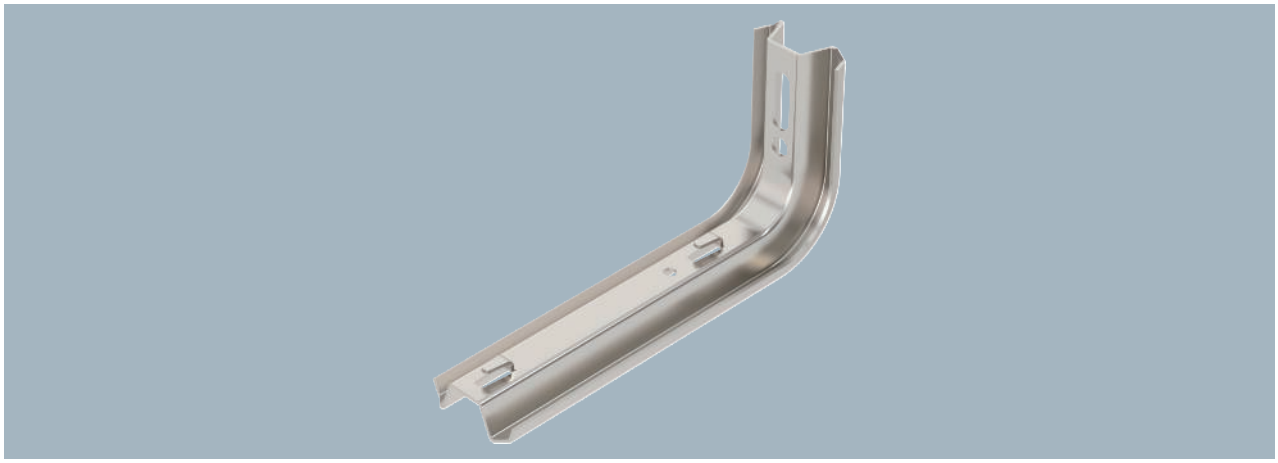
Anchor type	Max. load [kN] Bracket length [mm] 50	100	150	200	300	400
BZ-U 8-30-41/95	0,40	0,25	0,22	0,30	0,20	0,12

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Always indicate the item number when ordering.

TP support / wall and support bracket

A2 2B



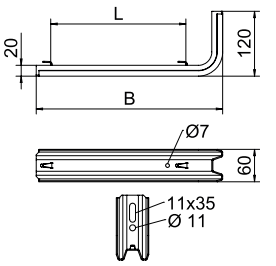
Type	for width mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSAG 145 A2	100	50	32.000	**6366145**
TPSAG 195 A2	150	20	40.000	**6366146**
TPSAG 245 A2	200	20	47.000	**6366148**
TPSAG 345 A2	300	20	61.000	**6366149**

If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

TP bracket with clamping lugs for screwless mesh cable tray fastening.

Type	Dim. B mm	Dim. L mm
TPSAG 145 A2	145	50
TPSAG 195 A2	195	100
TPSAG 245 A2	245	150
TPSAG 345 A2	345	250

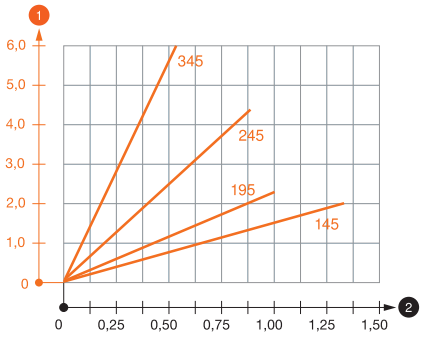
Dimensions



Load diagram, bracket TPSAG

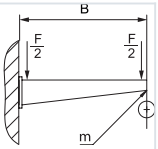
Load

1. Bending of the bracket tip at permitted bracket load
2. Permitted bracket load in kN without man load
— Load curve with bracket lengths in mm



Characteristic anchor load values for TP bracket - wall fastening

Item on test	Force F (SWL)	Width B
TPSA 145 FT	0.15 kN	145 mm
TPSA 195 FT	1 kN	195 mm
TPSA 245 FT	0.950 kN	245 mm
TPSA 345 FT	0.55 kN	345 mm



Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

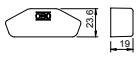
Characteristic anchor load values for TP bracket

anchors Approved	Bracket load Max. total load F in kN, Bracket length in mm		
F kN	145	245	345
2.4	1,50	0,90	0,55
4.3	1,50	1,20	0,80

End cap

PE





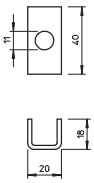
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
TPS KS OR	Pastel orange	10	0.700	**6364625**

End cap to cover ends of TP supports.

St FS FT

Spacer

Type	Pack Piece	Weight kg/100 pc.	Item no.
DS 4 FS	20	3.390	6416551
DS 4 FT	20	3.800	6416586





For static reasons, the spacer is always used to prevent the profile from deforming when the fastening bolts are tightened.

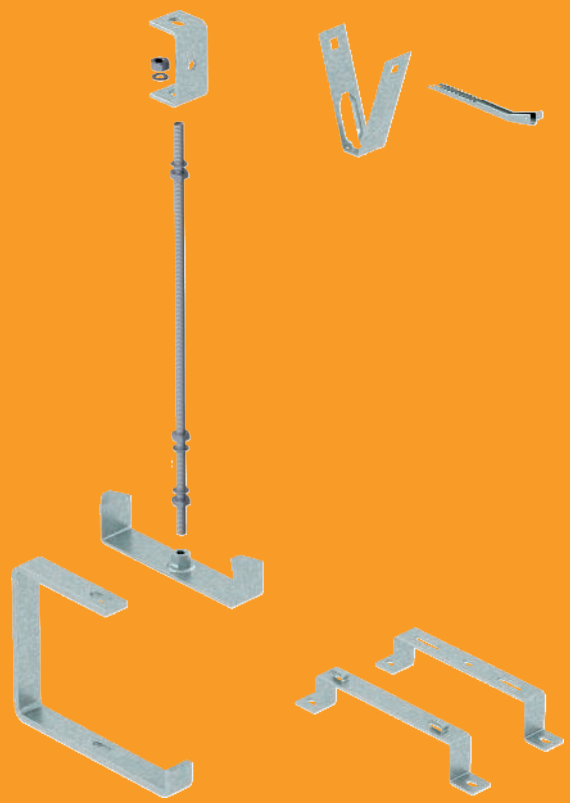
Spacer for use in profiles, type TP.

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Universal systems

Universal systems for cable support structures are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or a floor stand-off: In the universal systems, you can find functional fastenings with matching system accessories for any application.



- Simple suspension
- Centre suspension
- Suitable for mesh cable trays and cable trays
- Floor mounting
- Matching system accessories

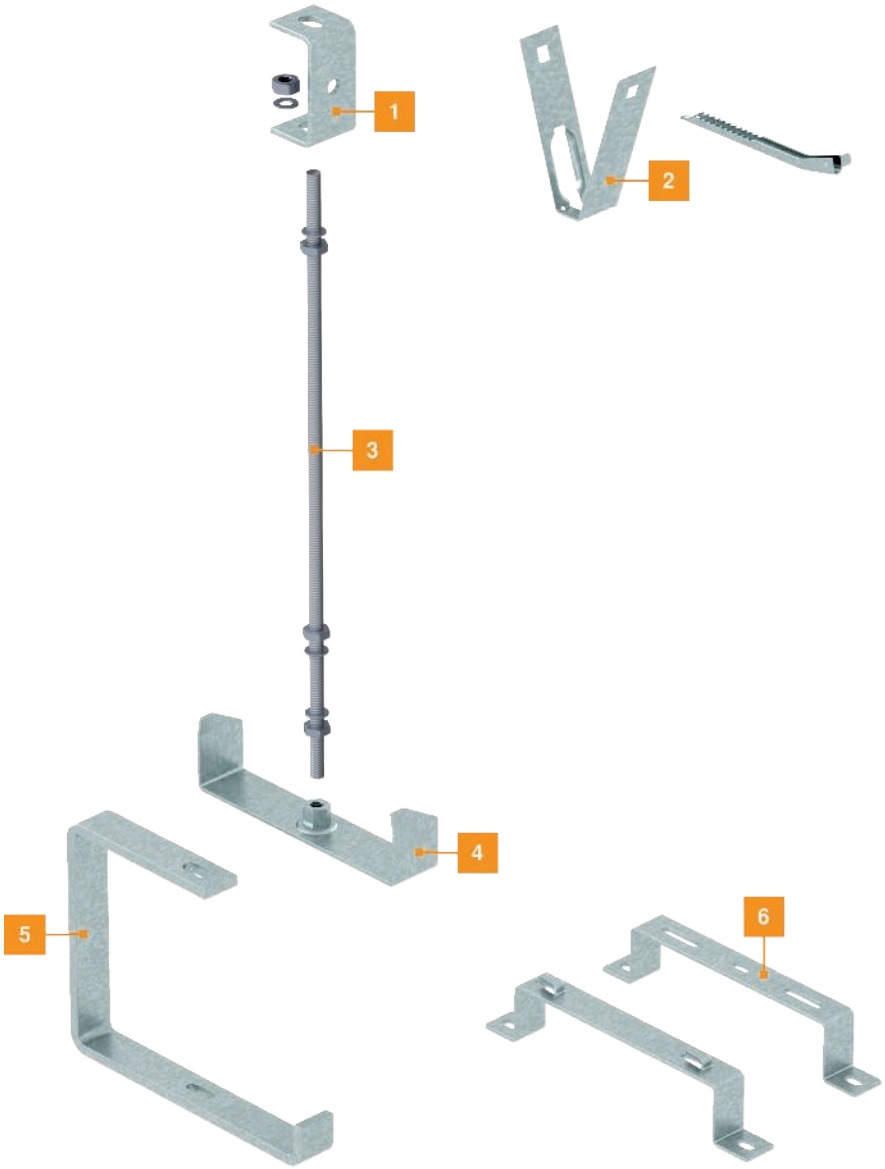
System description



The universal systems are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or as a floor stand-off: in the Universal systems, you can find functional fittings with matching system accessories for any application.
These suspension systems, which can be called basic installations, include centrally loaded ceiling clamps or trapezoidal fastenings, which are used with threaded rods and centre suspensions. When using central suspensions, the load should be even on both sides of the system. If an even load cannot be guaranteed, then other systems should be used.

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Installation principle



1	Ceiling bracket
2	Trapezoidal fastening
3	Threaded rod
4	Centre suspension
5	Suspension clamp
6	Stand-off bracket

Mounting aid



Installation of centre suspension
Installation of the centre suspension MAH 60 on the ceiling using threaded rod 2078/M10 and ceiling bracket 12050. Maximum cable tray width 300 mm.



Universal mounting on the ceiling
The variable ceiling bracket, type DBV, allows threaded rod suspensions on straight and sloping ceilings.



Centre suspension with threaded rod
Direct centre suspension at low loads of a cable tray with threaded rod 2078/M10.



Installation of centre suspension
Insertion and alignment of the centre suspension, MAH, in the cable tray.



Threaded rod suspension RKSM > 400 mm
The threaded rod suspension of RKSM cable trays > 400 mm can take place using two threaded rods.



Cable ladder centre suspension with threaded rod
Installation of a cable ladder with centre suspension MAHU and a threaded rod.



Trapezoidal plate application
Simple, quick fastening of a cable support system to trapezoidal metal roofs.



Installation of trapeze suspension
Installation of a cable tray on a trapezoidal ceiling using a ceiling bracket, type TPB 100 and centre suspension, type MAH 60. Maximum cable tray width 300 mm. The trapezoidal fastening is mounted using the lock, type TPB R.

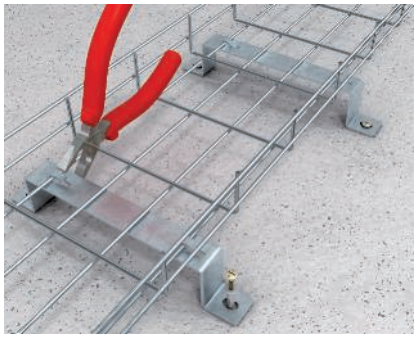


Threaded rod suspension with ceiling bracket
Ceiling mounting of a cable tray with AHB ceiling bracket and threaded rod 2078/M10. Maximum cable tray width 400 mm.

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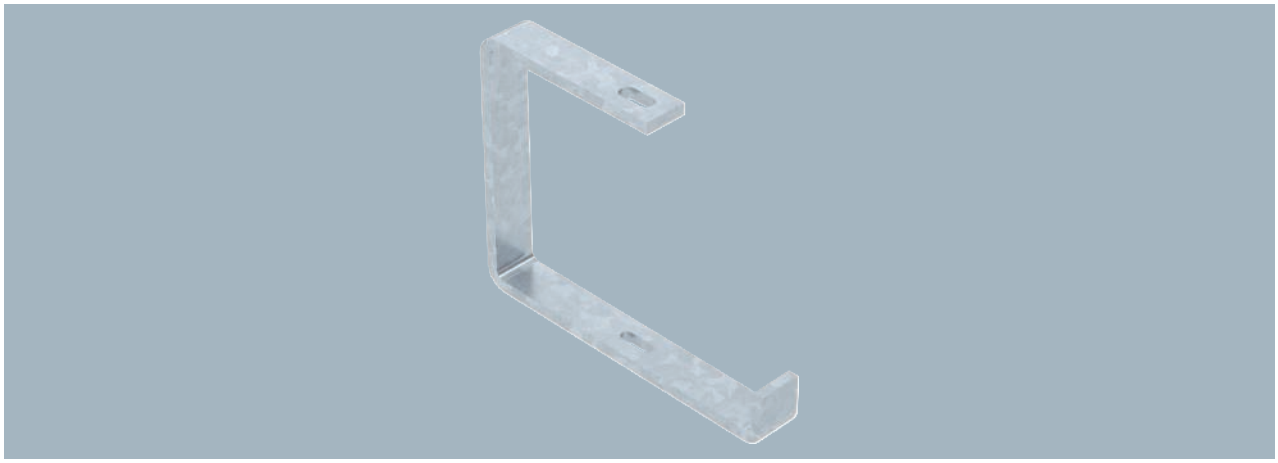
Floor fastening at a distance
Mounting of a cable tray at a distance using the DBL stand-off bracket. Maximum cable tray width 600 mm.



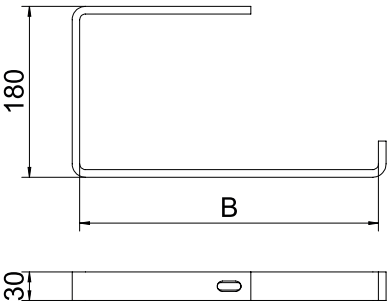
Stand-off of mesh cable trays
Floor stand-off of mesh cable trays with the stand-off bracket, type DBLG 20/... Screwless fastening of the mesh cable tray on the stand-off bracket using clamping lugs.

St FT

Ceiling bracket



Suspension bracket for cable support systems.



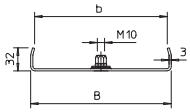
Type	for width mm	Dim. B mm	Hole Ø mm	F in kN ceiling kN	Pack Piece	Weight kg/100 pc.	Item no.
AHB 100 FT	100	115	11	0.6	1	54.000	**6363903**
AHB 200 FT	200	215	11	0.6	1	101.000	**6363911**
AHB 300 FT	300	315	11	0.35	1	130.000	**6363938**
AHB 400 FT	400	415	11	0.2	1	157.000	**6363946**

Centre suspensions

St FS

Centre suspension for cable tray, 35

Type	for width mm	For threaded rod	Dim. B mm	Dim. b mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MAH 35 100 FS	100	M10	95	84	1.3	1	9.400	**6358690**
MAH 35 200 FS	200	M10	195	184	0.35	1	18.600	**6358692**





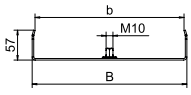
The centre suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).

Centre suspension for cable trays with rolled side rail of side height 35 mm.

St FS

Centre suspension for cable tray, 60

Type	for width mm	For threaded rod	Dim. B mm	Dim. b mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
MAH 60 100 FS	100	M10	94	84	1.3	1	17.250	**6358705**
MAH 60 150 FS	150	M10	144	134	0.5	1	23.000	**6358709**
MAH 60 200 FS	200	M10	195	184	0.2	1	24.500	**6358713**
MAH 60 300 FS	300	M10	295	284	0.2	1	36.700	**6358717**





The centre suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).
The widths 100, 150 and 200 mm have additional base perforations, in order to screw the centre suspensions to the tray base when used for the maintenance of electrical functionality according to DIN 4102 Part 12.

Centre suspension for cable trays with rolled side rail of side height 60 mm.

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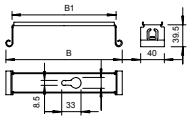
Always indicate the item number when ordering.

Centre suspensions

Centre suspension for cable trays with rolled side rail

St FS





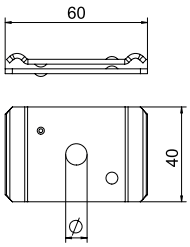
Type	for width mm	Dim. B mm	Dimension B1 mm	Pack Piece	Weight kg/100 pc.	Item no.
MAH 050 FS	50	47	26	1	5.000	**6358500**
MAH 075 FS	75	72	51	1	6.500	**6358510**
MAH 100 FS	100	97	76	1	7.500	**6358527**
MAH 200 FS	200	197	176	1	12.500	**6358543**

Centre suspension for cable trays for attachment from the side rail of the cable tray.

Centre suspension mesh cable tray

St FS FT





Type	Hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
GMA M8 FS	9	25	7.270	**6015239**
GMA M10 FS	11	25	6.830	**6015247**
GMA M6 FS	7	25	8.000	**6015220**
GMA M8 FT	9	25	8.300	**6015243**
GMA M10 FT	11	25	8.400	**6015255**

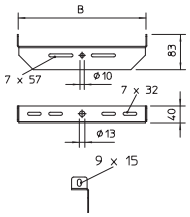
When filling with cables, please ensure an even distribution. The maximum recommended mesh cable tray width is 200 mm.

Two-part centre suspension of mesh cable trays.

Centre suspension, universal

St FS





Type	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MAHU 200 FS	200	1	27.500	**6358853**
MAHU 300 FS	300	1	39.300	**6358856**

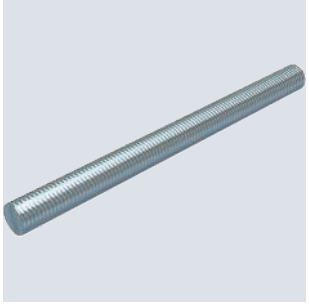
Preferred use of this centre suspension in combination with cable ladders and mesh cable trays.

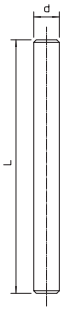
Universal centre suspension for fastening to threaded rods and supports.

Threaded rods

Threaded rod

St G





Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M G	M6	6	1000	8.04	10	18.300	**3141047**
TR M8 1M G	M8	8	1000	14.6	10	30.000	**3141128**
TR M10 1M G	M10	10	1000	23.2	10	49.000	**3141209**
TR M12 1M G	M12	12	1000	33.7	10	62.000	**3141306**
TR M6 2M G	M6	6	2000	8.04	10	36.600	**3141048**
TR M8 2M G	M8	8	2000	14.6	10	60.000	**3141136**
TR M10 2M G	M10	10	2000	23.2	10	98.000	**3141140**
TR M12 2M G	M12	12	2000	33.7	10	140.000	**3141144**

Threaded rod to DIN 976.

A2 2B

Threaded rod

Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M A2	M6	6	1000	19.78	10	18.300	**3141327**
TR M8 1M A2	M8	8	1000	35.17	10	30.000	**3141310**
TR M10 1M A2	M10	10	1000	54.95	10	49.000	**3141312**
TR M12 1M A2	M12	12	1000	79.13	10	70.000	**3141314**
TR M6 2M A2	M6	6	2000	19.78	10	36.600	**3141328**
TR M8 2M A2	M8	8	2000	35.17	10	60.000	**3141330**
TR M10 2M A2	M10	10	2000	54.95	10	98.000	**3141339**

Threaded rod to DIN 976.





Trapezoidal fastening

St FS

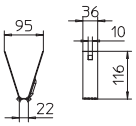
Ceiling bracket, trapezoidal

Type	Material thickness mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 FS	1.5	0.8	20	9.900	**6357506**

Important: Observe the statics of the trapezoidal metal ceiling.

Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.





A2 2B

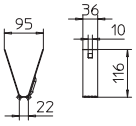
Ceiling bracket, trapezoidal

Type	Material thickness mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 100 A2	1.5	0.8	20	9.900	**6357516**

Important: Observe the statics of the trapezoidal metal ceiling.

Trapezoidal fastening for suspended mounting of cable support systems on standard trapezoidal ceilings.

When using the holes provided, the trapezoidal fastening can be mounted onto a trapezoidal profile width of up to approx. 80 mm. Fastening takes place with the type TPB R lock or a hexagonal bolt of type SKS 10x110.

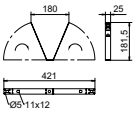




St FS

Trapezoidal fastening

Type	Material thickness mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 180 FS	1.5	0.8	20	11.400	**6357522**

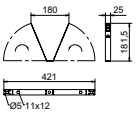




A2 2B

Trapezoidal fastening

Type	Material thickness mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB 180 A2	1.5	0.8	20	11.400	**6357524**





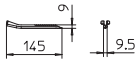
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Trapezoidal fastening

Splint for trapezoidal ceiling bracket

St FS





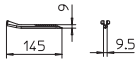
Type	Material thickness mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB R FS	1.5	0.8	20	3.100	**6357536**

Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

Splint for trapezoidal ceiling bracket

A2 2B





Type	Material thickness mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TPB R A2	1.5	0.8	20	3.100	**6357538**

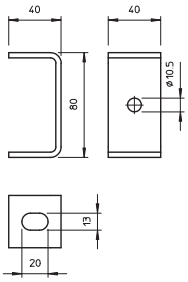
Important: Observe the statics of the trapezoidal metal ceiling.
Splint for fastening and securing the ceiling bracket to trapezoidal ceilings.

Bracket

Ceiling bracket

St FT



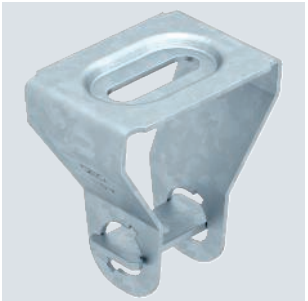


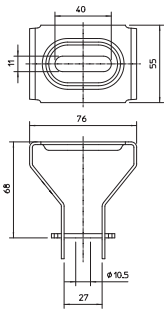
Type	Pack Piece	Weight kg/100 pc.	Item no.
DB FT	20	16.000	**6356109**

Ceiling bracket for threaded rod suspension.

Ceiling clamp, variable

St FS





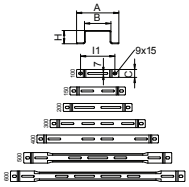
Type	Pack Piece	Weight kg/100 pc.	Item no.
DBV FS	20	18.200	**6356055**

The locked threaded rod seat offers the option of infinite angle adjustment.
Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use.

St FS FT

Stand-off bracket

Type	Dim. A mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
DBL 50 100 FS	160	100	50	20	15.500	**6015506**
DBL 50 150 FS	210	150	50	20	18.800	**6015514**
DBL 50 200 FS	260	200	50	20	21.000	**6015522**
DBL 50 300 FS	360	300	50	20	36.900	**6015530**
DBL 50 400 FS	460	400	50	20	46.300	**6015549**
DBL 50 500 FS	560	500	50	25	57.200	**6015552**
DBL 50 600 FS	660	600	50	20	65.800	**6015555**
DBL 50 100 FT	160	100	50	20	16.000	**6015565**
DBL 50 150 FT	210	150	50	20	19.400	**6015573**
DBL 50 200 FT	260	200	50	20	22.000	**6015581**
DBL 50 300 FT	360	300	50	20	38.000	**6015603**
DBL 50 400 FT	460	400	50	20	47.700	**6015611**
DBL 50 500 FT	560	500	50	25	58.900	**6015614**
DBL 50 600 FT	660	600	50	20	67.800	**6015617**



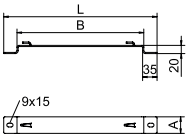


Stand-off bracket for cable trays and mesh cable trays.

St FS FT

Stand-off bracket

Type	Height mm	Dim. A mm	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
DBLG 20 050 FS	20	30	56	120	20	10.300	**6015646**
DBLG 20 100 FS	20	30	106	170	20	12.076	**6015654**
DBLG 20 150 FS	20	30	156	220	20	17.400	**6015658**
DBLG 20 200 FS	20	30	206	270	20	20.900	**6015662**
DBLG 20 300 FS	20	40	306	370	20	37.300	**6015670**
DBLG 20 400 FS	20	40	406	470	20	46.700	**6015689**
DBLG 20 500 FS	20	40	506	570	25	56.900	**6015693**
DBLG 20 600 FS	20	40	606	670	25	66.400	**6015697**
DBLG 20 050 FT	20	30	56	120	20	10.700	**6015648**
DBLG 20 100 FT	20	30	106	170	20	14.300	**6015656**
DBLG 20 200 FT	20	30	206	270	20	21.700	**6015664**
DBLG 20 300 FT	20	40	306	370	20	38.800	**6015672**
DBLG 20 400 FT	20	40	406	470	20	48.600	**6015691**
DBLG 20 500 FT	20	40	506	570	25	54.702	**6015695**
DBLG 20 600 FT	20	40	606	670	25	69.100	**6015699**
DBLG 20 150 FT	20	30	156	220	20	18.100	**6015660**





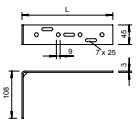
Screwless fastening of the mesh cable tray on the stand-off bracket.

Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall.
GRM mesh cable tray types with side heights of 35, 55 and 105 mm can be mounted onto the stand-off bracket.

St FS

Wall bracket WW

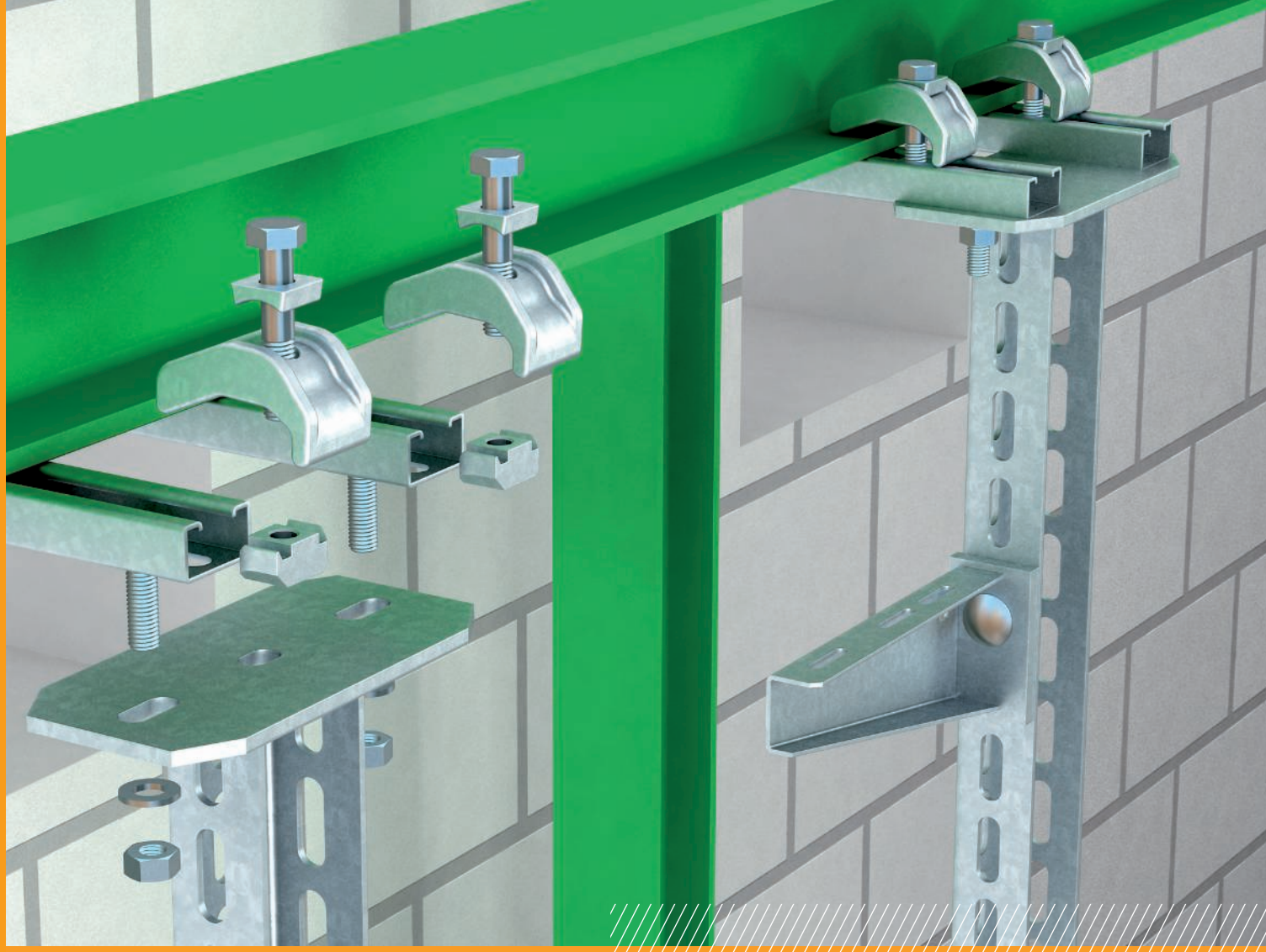
Type	Dim. L mm	F in kN kN	Pack Piece	Weight kg/100 pc.	Item no.
WW 100 15 FS	158	0.12	25	25.000	**6015360**
WW 100 20 FS	208	0.09	25	30.000	**6015379**





Wall bracket for fastening to masonry and concrete to accept low loads.

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Beam clamp systems

The beam clamp systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. The beam clamp can be attached without difficult, often unpermitted, drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws.

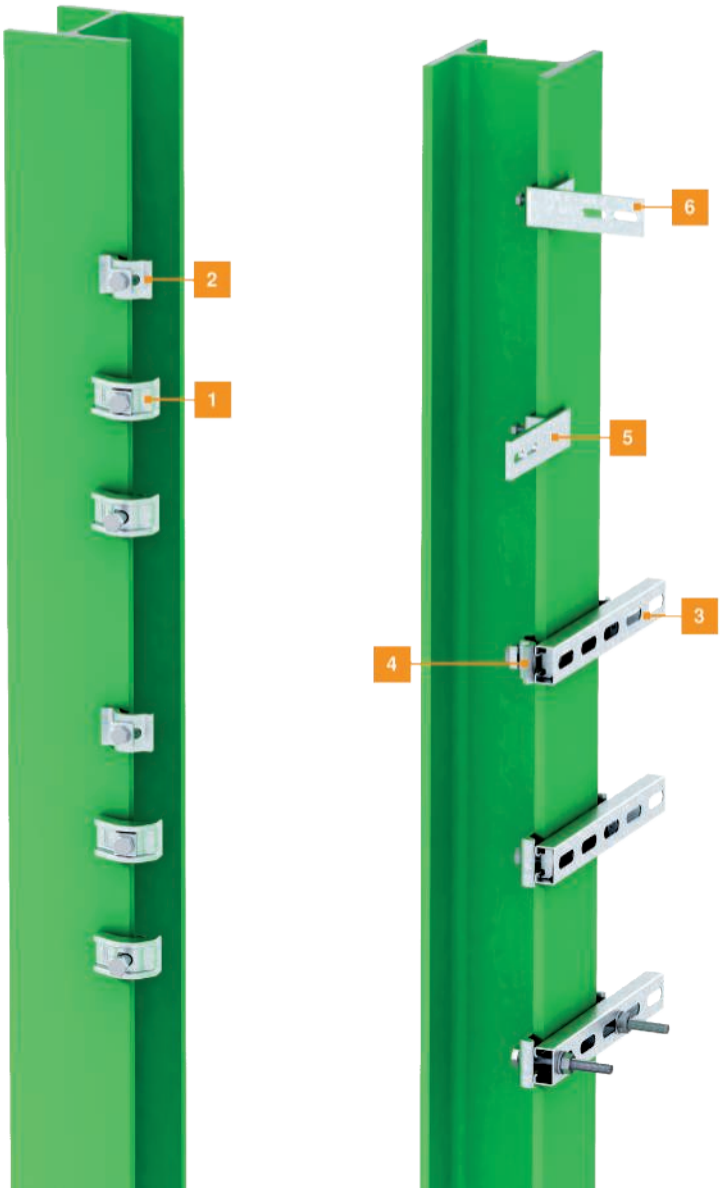


Large support spacings possible

Infinite height adjustment

Installation principle





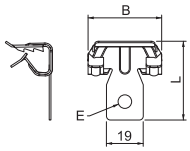
1	Chuck jaw, heavy duty
2	Chuck jaw, light duty
3	Profile rail
4	Clamping angle
5	Beam clamp, horizontal
6	Beam clamp, vertical

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Beam clamp, with fastening hole

St ZL





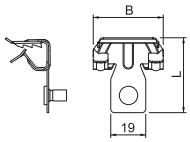
Type	Flange thickness mm	Fastening hole mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVH 2-4	2-4	6.5	450	100	1.350	**1483601**
BCVH 4-8	4-8	6.5	950	100	1.660	**1483603**
BCVH 8-14	8-14	6.5	950	100	1.800	**1483605**
BCVH 14-20	14-20	6.5	950	100	1.950	**1483607**

Beam clamp for knocking in with fastening hole as individual fastening solution on the beam.

Beam clamp, with threaded bolt

St ZL



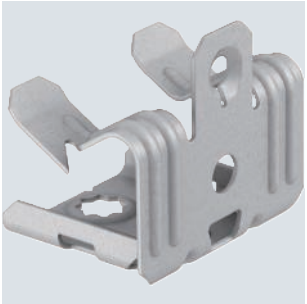


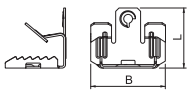
Type	Flange thickness mm	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVTB 4-8 M6	4-8	M6x9mm	450	100	1.600	**1483613**
BCVTB 8-14 M6	8-14	M6x9mm	450	100	1.800	**1483615**
BCVTB 14-20 M6	14-20	M6x9mm	450	100	2.000	**1483617**

Beam clamp for knocking in with threaded bolt as individual fastening solution on the beam.

Beam clamp, with female thread

St ZL





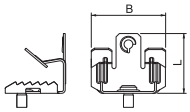
Type	Flange thickness mm	Thread	Fastening hole mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCUIT 3-7 M6	3-7	M6	7	450	100	2.100	**1483621**
BCUIT 8-12,5 M6	8-12	M6	7	450	100	2.450	**1483623**
BCUIT 14-20 M6	14-20	M6	7	450	100	2.700	**1483625**

Beam clamp for knocking in with internal thread as individual fastening solution on the beam.

Beam clamp, with threaded bolt

St ZL





Type	Flange thickness mm	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCUTB 3-7 M6	3-7	M6x9mm	450	100	2.850	**1483631**
BCUTB 8-12,5 M6	8-12.5	M6x9mm	450	100	2.900	**1483633**
BCUTB 14-20 M6	14-20	M6x9mm	450	100	3.200	**1483635**

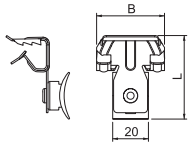
Beam clamp for knocking in with threaded bolt as individual fastening solution on the beam.

St ZL

Beam clamp, with cable tie

Type	Flange thickness mm	Cable strip length mm	Max. D Ø	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCCT 4-8 L240	4-8	240	70	220	50	1.900	**1483643**

Beam clamp for knocking in with cable tie as individual fastening solution on the support.



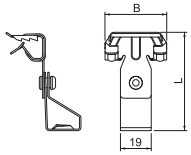


St ZL

Beam clamp, for threaded rod

Type	Flange thickness mm	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCTR 4-8 M6	4-8	M6	650	50	3.100	**1483661**

Beam clamp for knocking in with threaded rod seat as individual fastening solution on the beam.



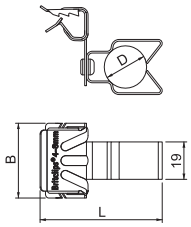


St ZL

Beam clamp, for pipes

Type	Flange thickness mm	Pipe size D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCHPO 4-8 D25	4-8	25	110	50	3.200	**1483823**
BCHPO 4-8 D32	4-8	32	110	50	3.000	**1483825**
BCHPO 8-14 D25	8-14	25	110	50	3.100	**1483833**
BCHPO 8-14 D32	8-14	32	110	50	3.300	**1483835**

Beam clamp for knocking in with open pipe seat as individual fastening solution on the beam.



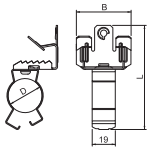


St ZL

Beam clamp, for pipes

Type	Flange thickness mm	Clamping range D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVPC 8-12,5 D20	8-12.5	19-22	450	50	4.200	**1483791**
BCVPC 14-20 D20	14-20	19-22	450	50	4.600	**1483801**

Beam clamp for knocking in with closed pipe seat as individual fastening solution on the beam.



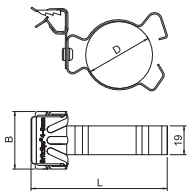


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Beam clamp, for pipes

St ZL



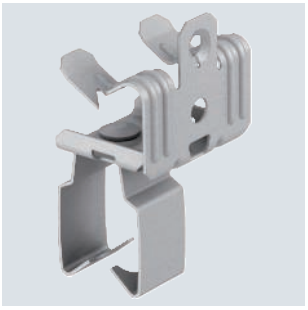


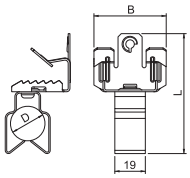
Type	Flange thickness mm	Clamping range D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCHPC 14-20 D20	14-20	18-24	450	50	3.500	**1483711**
BCHPC 14-20 D25	14-20	22-26	450	50	4.100	**1483713**

Beam clamp for knocking in with closed pipe seat as individual fastening solution on the beam.

Beam clamp, for pipes

St ZL



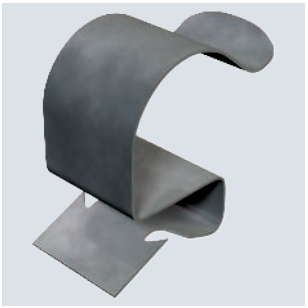


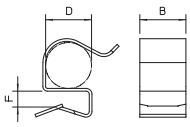
Type	Flange thickness mm	Pipe size D mm	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
BCVPO 8-12,5 D20	8-12.5	20	110	50	4.100	**1483761**

Beam clamp for knocking in with open pipe seat as individual fastening solution on the beam.

Beam clamp, for pipes

St ZL





Type	Flange thickness mm	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BCC 2-4 D5,5	2-4	4.5-5.5	100	0.400	**1483901**
BCC 2-4 D7	2-4	6-7	100	0.400	**1483903**
BCC 2-4 D9	2-4	7-9	100	0.450	**1483905**
BCC 2-4 D11	2-4	10-12	100	0.500	**1483907**
BCC 2-4 D14	2-4	12-14	100	0.550	**1483911**
BCC 2-4 D18	2-4	15-18	100	0.700	**1483915**
BCC 2-4 D24	2-4	19-24	100	0.800	**1483919**
BCC 2-4 D30	2-4	25-30	100	0.900	**1483923**
BCC 4-7 D5,5	4-7	4.5-5.5	100	0.500	**1483931**
BCC 4-7 D7	4-7	6-7	100	0.550	**1483933**
BCC 4-7 D9	4-7	7-9	100	0.600	**1483935**
BCC 4-7 D11	4-7	10-11	100	0.700	**1483937**
BCC 4-7 D14	4-7	12-14	100	0.700	**1483941**
BCC 4-7 D18	4-7	15-18	100	0.800	**1483945**
BCC 4-7 D24	4-7	19-24	100	0.900	**1483951**
BCC 4-7 D30	4-7	25-30	100	1.100	**1483955**
BCC 8-12 D5,5	8-12	4.5-5.5	100	0.500	**1483960**
BCC 8-12 D7	8-12	6-7	100	0.600	**1483961**
BCC 8-12 D9	8-12	7-9	100	0.700	**1483963**
BCC 8-12 D11	8-12	10-11	100	0.700	**1483965**
BCC 8-12 D14	8-12	12-14	100	0.800	**1483969**
BCC 8-12 D18	8-12	15-18	100	0.900	**1483973**
BCC 8-12 D24	8-12	19-24	100	1.100	**1483977**
BCC 8-12 D30	8-12	25-30	100	1.100	**1483981**

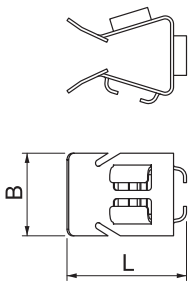
Beam clamp for knocking in for cables as individual fastening solution on the beam.

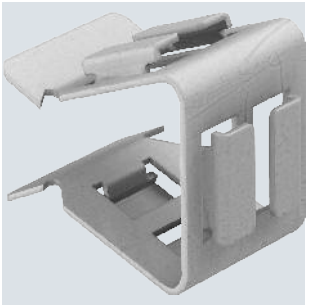
St ZL

Beam clamp, for pipes

Type	Flange thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
BCCA	12-20	100	1.700	1483999

Beam clamp adapter for knocking in. Seat for BCC beam clamps for flange thicknesses of 2–4 mm.





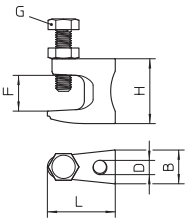
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Always indicate the item number when ordering.

Screw-in beam clamp, with gland hole

TG





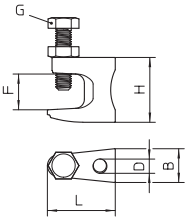
Type	Flange thickness mm	Height mm	Fastening hole mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
FL 1 TG	0-18	35	9	1.2	50	8.500	**1488015**
FL 2 TG	0-20	42	11	2.5	50	14.000	**1488023**
FL 3 TG	0-26	54	13	3.5	25	18.000	**1488031**

With gland hole.

Screw-in beam clamp, with thread

TG





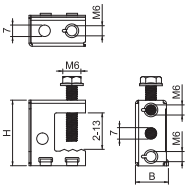
Type	Flange thickness mm	Height mm	For threaded rod	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
FL1-G M8 TG	0-18	35	M8	1.2	50	8.500	**1488074**
FL2-G M10 TG	0-20	42	M10	2.5	50	14.000	**1488082**
FL3-G M12 TG	0-26	54	M12	3.5	25	22.000	**1488090**

With thread.

Screw-in beam clamp, universal

St ZL



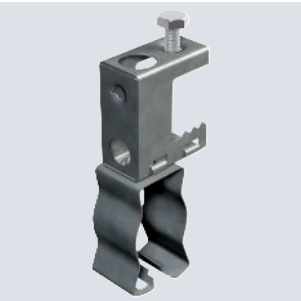


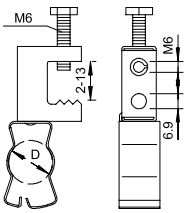
Type	Flange thickness mm	Height mm	Fastening hole mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TK 213	2-13	35	6.5	0.55	100	2.720	**1484702**

Various fastening options (horizontal and vertical).

Screw-in beam clamp, for pipes and cables

St ZL





Type	Flange thickness mm	Clamping range D mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TKS 213-25	2-17	23-25	0.45	50	3.990	**1484818**
TKS 213-32	2-17	26-32	0.45	50	4.170	**1484826**

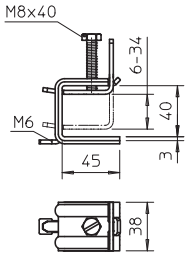
With rotating clip to accept pipes and cables, lockable.

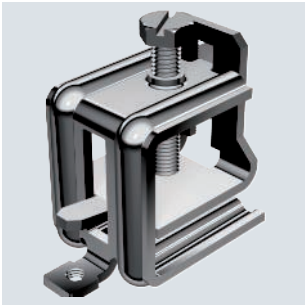
St G

Beam clamp for screwing on, light-duty

Type	Flange thickness mm	Pack Pair	Weight kg/100 pairs	Item no.
339 2	6-34	5	37.000	**1408534**

For rapid fastening on steel profiles during the mounting of cable tracks, clamp clips, luminaire suspensions, etc. A complete system consists of two beam clamps and a piece of C profile rail of any length, as well as two end caps.





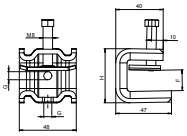
St FT

CE

Beam clamp SSP 6-21

Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 6-21 M6 FT	6-21	M6	1.75	1.5	25	23.900	**1486232**
SSP 6-21 M8 FT	6-21	M8	1.75	1.5	25	23.900	**1486282**

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.





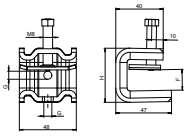
A2 VA A2 2B

CE

Beam clamp SSP 6-21

Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 6-21 M6 A2	6-21	M6	1.75	1.5	25	23.200	**1486234**
SSP 6-21 M8 A2	6-21	M8	1.75	1.5	25	23.200	**1486284**
SSP 6-21 M8 A4	6-21	M8	1.75	1.5	25	23.200	**1486286**

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.





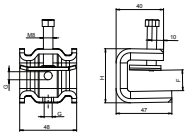
St FT

CE

Beam clamp SSP 20-40

Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 20-40 M6 FT	20-40	M6	1.4	1.3	25	27.700	**1486238**
SSP 20-40 M8 FT	20-40	M8	1.4	1.3	25	27.800	**1486288**

This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.





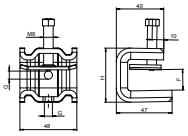
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Beam clamp SSP 20-40

A2 VA A2 2B

CE





Type	Flange thickness mm	For threaded rod	Breaking load F1 kN	Breaking load F2 kN	Pack Piece	Weight kg/100 pc.	Item no.
SSP 20-40 M6 A2	20-40	M6	1.4	1.3	25	27.700	**1486242**
SSP 20-40 M6 A4	20-40	M6	1.4	1.3	25	27.700	**1486244**
SSP 20-40 M8 A2	20-40	M8	1.4	1.3	25	27.800	**1486292**
SSP 20-40 M8 A4	20-40	M8	1.4	1.3	25	27.800	**1486294**

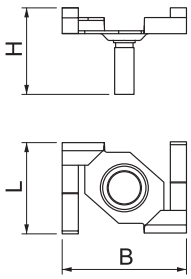
This type of beam clamp is pushed onto the support and fixed to the girder or flat iron using a pressure trough and bolt (M8). The hexagonal bolt has a WAF of 10 mm. In the clip element, two additional M6 threads are also incorporated, to fix threaded rods, for example.

St ZL

Ceiling profile clamp - CPC

Type	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
CPC M6x25	M6 x 25 mm	220	100	1.250	**1483995**

Ceiling profile clamp with threaded bolt



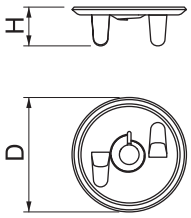


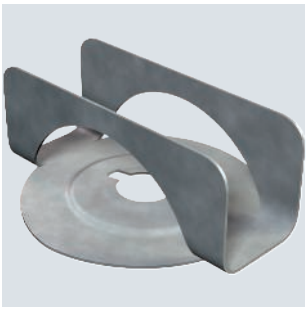
St ZL

Locknut - CPCN

Type	Thread	Breaking load N	Pack Piece	Weight kg/100 pc.	Item no.
CPCN M6	M6	220	100	0.650	**1483997**

Locknut for CPC ceiling profile clamp

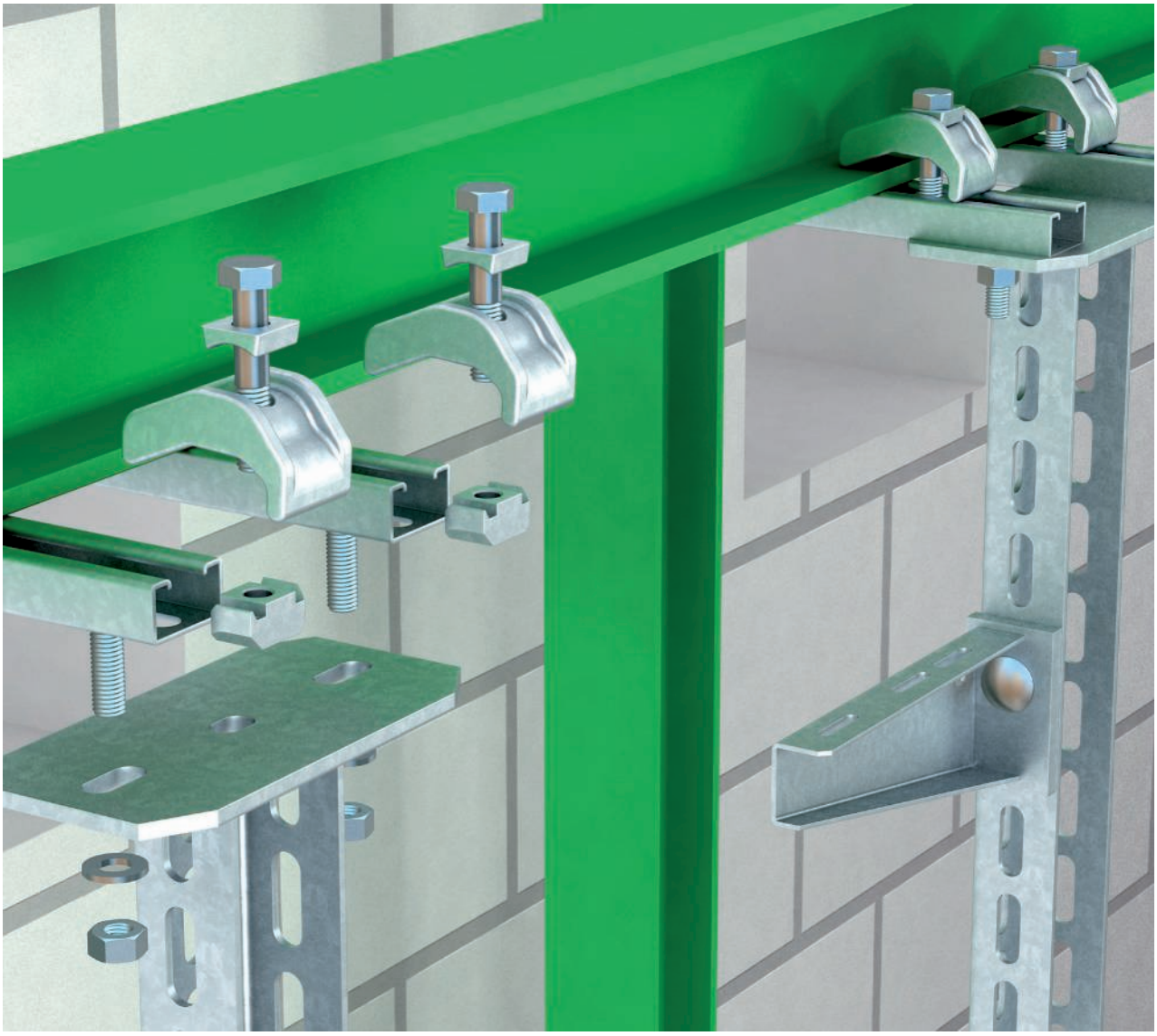




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Always indicate the item number when ordering.

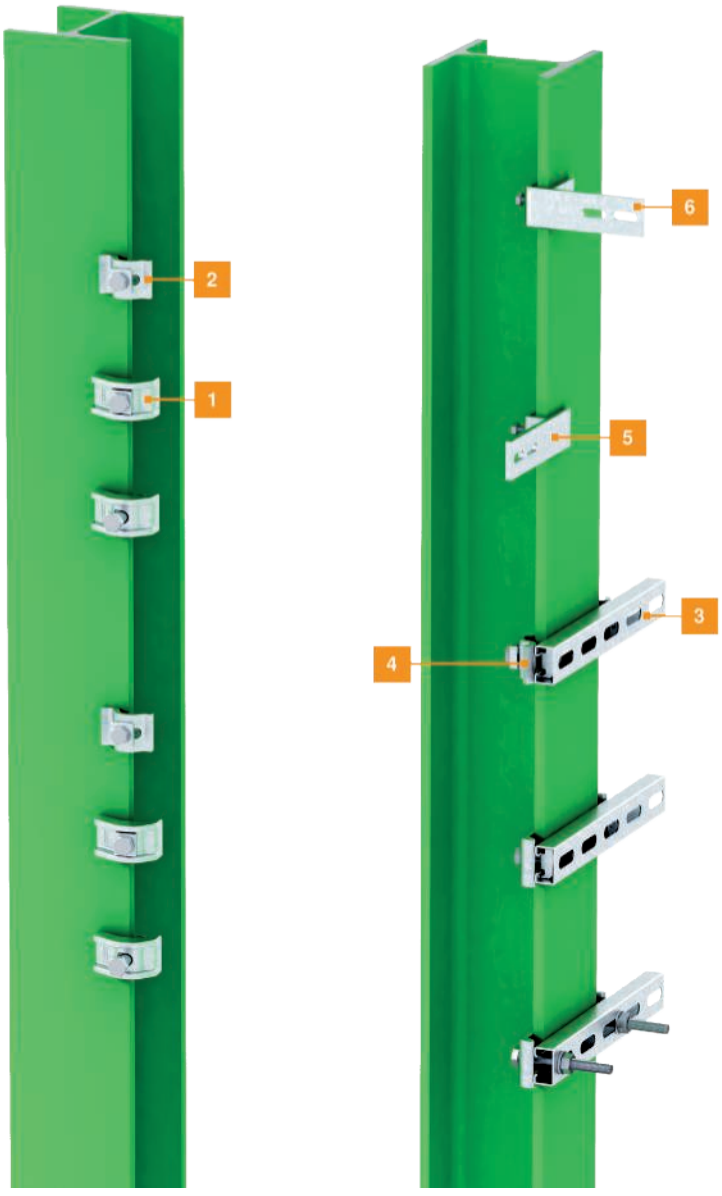
System description



The beam clamp systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. The beam clamp can be attached without difficult, often unpermitted, drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws. The clamping lugs/clamping angles, type KL, KWH and KWS, and the chuck jaws, type TKH and TKS, permit excellent connections without drilling or welding, on account of the perfect matching to additional system articles.

Installation principle





1	Chuck jaw, heavy duty
2	Chuck jaw, light duty
3	Profile rail
4	Clamping angle
5	Beam clamp, horizontal
6	Beam clamp, vertical

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Mounting aid



Application on horizontal steel girder
Clamp fastenings using clamping angles and chuck jaws on horizontal steel girders.



Application on sloping steel girder
Clamp fastenings using clamping angles and chuck jaws on sloping steel girders.



Steel clamping, C profile rail
Fastening of a C profile, type MS 4022 or MS 5030, to steel girder using clamping angles, type KWS.



Direct girder clamping
Direct girder clamping of an I suspended support using chuck jaw (heavy duty), type TKS-S-30. Route along steel girder.



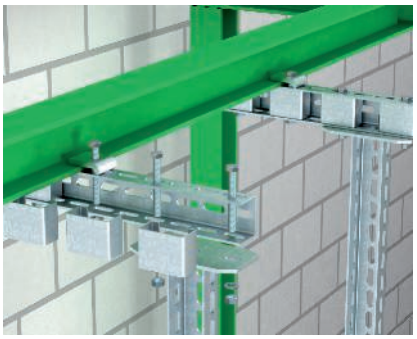
Clamp fastening with addition C profile
Use of an additional C profile rail, type MS, for wider steel girders. Route along steel girder.



Clamping transverse to steel girder
Use with two C profile rails for tray mounting transverse to the steel girder.



Cantilever beam on steel
Installation of U support as cantilever beam on steel girder. Fastening with clamping angles or chuck jaws depending on load. Fastening with spacers, type DSK.



Cantilever beam with support
Cantilever beams made of U support construction clamped to steel girder for installing supports.



Clamp fastening on vertical steel girder
Mounting of the adapter plate, type KA-AW, on the vertical steel girder using clamping angles or chuck jaws. Wall brackets of type AW are fastened to the adapter plate, using the hexagon head screw SKS 12x40 GF.



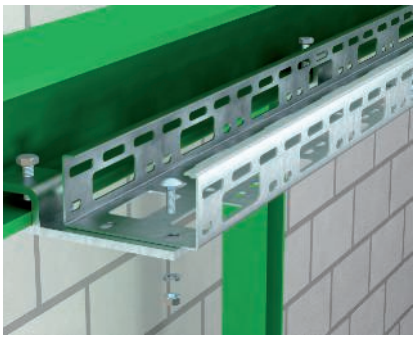
45° adapter plate, steel clamping
Mounting of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of routes in angles and at room corners.



Vertical clamp fastening
Clamp fastening of a heavy-duty bracket with clamping angles or clamping lugs on a vertical steel girder.



Vertical clamp fastening
Installation of a mesh cable tray vertically on a steel girder, mounting with a beam clamp BFK and clamp GKS 50.



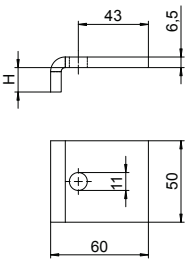
Horizontal clamp fastening
Installation of AZ small duct using BFK beam clamp in a longitudinal direction on the steel girder. Maximum cable tray width 100 mm.

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Clamping angle KL

St FT



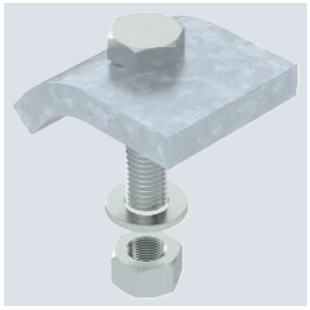


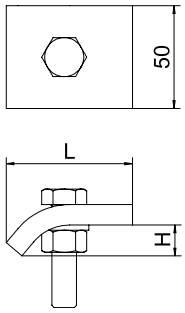
Type	Height mm	Bolt	Pack Piece	Weight kg/100 pc.	Item no.
KL1 10 S FT	10	M10x40	10	22.100	**6354106**
KL1 15 S FT	15	M10x50	10	23.400	**6354114**
KL1 20 S FT	20	M10x50	10	25.000	**6354122**

Clamping angle, type KL1, to fasten light support structures to steel girder flanges.
Choose the clamping lug according to the thickness of the flange.

Clamping angle KWS

St FT



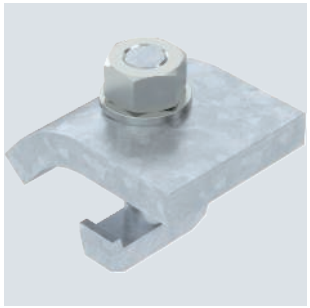


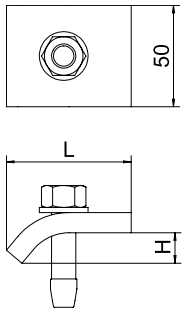
Type	F in kN kN	Bolt	Dim. H mm	Pack Pair	Weight kg/100 pairs	Item no.
KWS 5 FT	5.7	M12x40	5	10	64.000	**6355218**
KWS 10 FT	5.7	M12x50	10	10	70.000	**6355226**
KWS 15 FT	5.7	M12x50	15	10	65.200	**6355234**
KWS 20 FT	5.7	M12x60	20	10	79.000	**6355242**
KWS 25 FT	5.7	M12x60	25	10	80.000	**6355250**

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.
Choose the clamping angle according to the thickness of the flange.

Clamping angle KWH

St FT





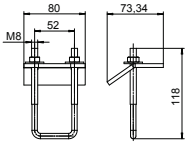
Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
KWH 5 FT	5	5.7	M12x40	10	67.000	**6355021**
KWH 10 FT	10	5.7	M12x50	10	73.000	**6355048**
KWH 25 FT	25	5.7	M12x60	10	87.000	**6355072**

Clamping angle, with hook-head bolt, type KWH, for fastening in the mounting rail, type MS5030.
Adapt the clamping angle to the material thickness of the flange.
The clamping angle is used in conjunction with profile rails of slot width 22 mm.

Clamp

St FT





Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 FT	118	80	74	20	32.300	**1124679**

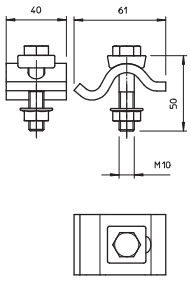
Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

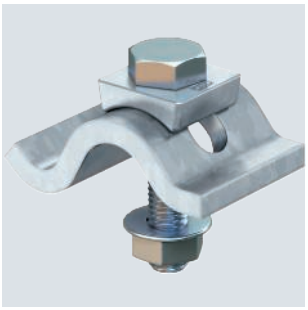
St FT

Chuck jaw, light duty TKS

Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
TKS-L-25 FT	25	10	M10x50	10	39.200	**6355808**

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.



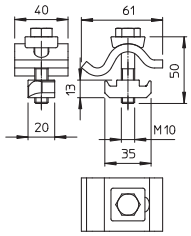


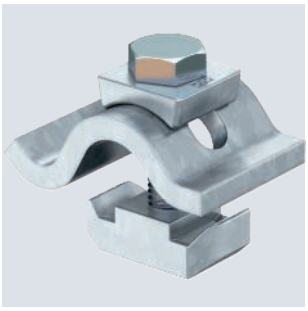
St FT

Chuck jaw, light duty TKH

Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
TKH-L-25 FT	25	10	M10x25	10	46.000	**6355812**

Light-duty chuck jaw with slide nut for fixing profile rails to steel girder flanges.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.
The chuck jaw is used in combination with profile rails of slot widths 18 mm and 22 mm.



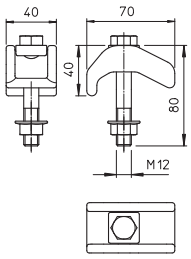


St ZL

Chuck jaw, heavy duty TKS

Type	Height mm	F in kN kN	Bolt	Pack Pair	Weight kg/100 pairs	Item no.
TKS-S-30 ZL	30	21	M12x75	10	82.800	**6355798**

Heavy-duty chuck jaw with hexagonal nut for direct fastening of structures to steel girders.
The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.



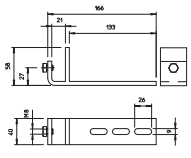


St FT

Beam clamp, vertical BFK 166

Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 166 58 20 FT	166	133	10	45.000	**6003888**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.





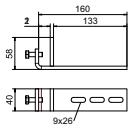
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Always indicate the item number when ordering.

Beam clamp, vertical BFK 166

A2 2B



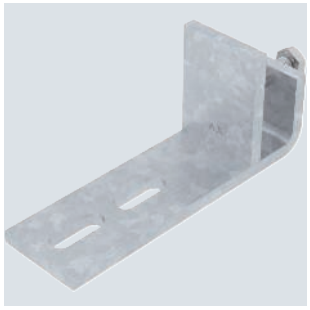


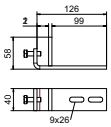
Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 166 58 20 A2	166	133	10	46.000	**6003877**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

Beam clamp, vertical BFK 132

St FT





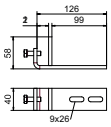
Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 132 58 FT	132	99	10	39.000	**6003880**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

Beam clamp, vertical BFK 132

A2 2B





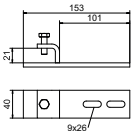
Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 132 58 A2	132	99	10	38.000	**6003871**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs vertically.

Beam clamp, horizontal BFK 153

St FT





Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 153 33 FT	153	101	10	37.000	**6003884**

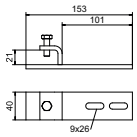
Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

A2 2B

Beam clamp, horizontal BFK 153

Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 153 33 A2	153	101	10	37.200	**6003873**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.



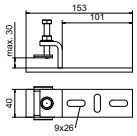


St FT

Beam clamp with pressure plate, horizontal BFK 153

Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFKD 153 44 FT	153	101	10	41.400	**6003885**

Beam clamp with pressure plate for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.



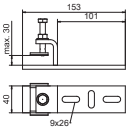


A2 2B

Beam clamp with pressure plate, horizontal BFK 153

Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFKD 153 44 A2	153	101	10	42.400	**6003887**

Beam clamp with pressure plate for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.



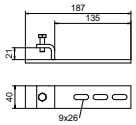


St FT

Beam clamp, horizontal BFK 187

Type	Width mm	Dim. b mm	Pack Piece	Weight kg/100 pc.	Item no.
BFK 187 33 FT	187	135	10	43.000	**6003892**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.



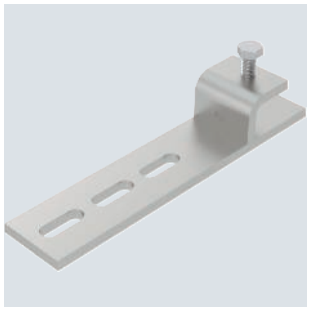


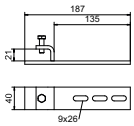
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Always indicate the item number when ordering.

Beam clamp, horizontal BFK 187

A2 2B



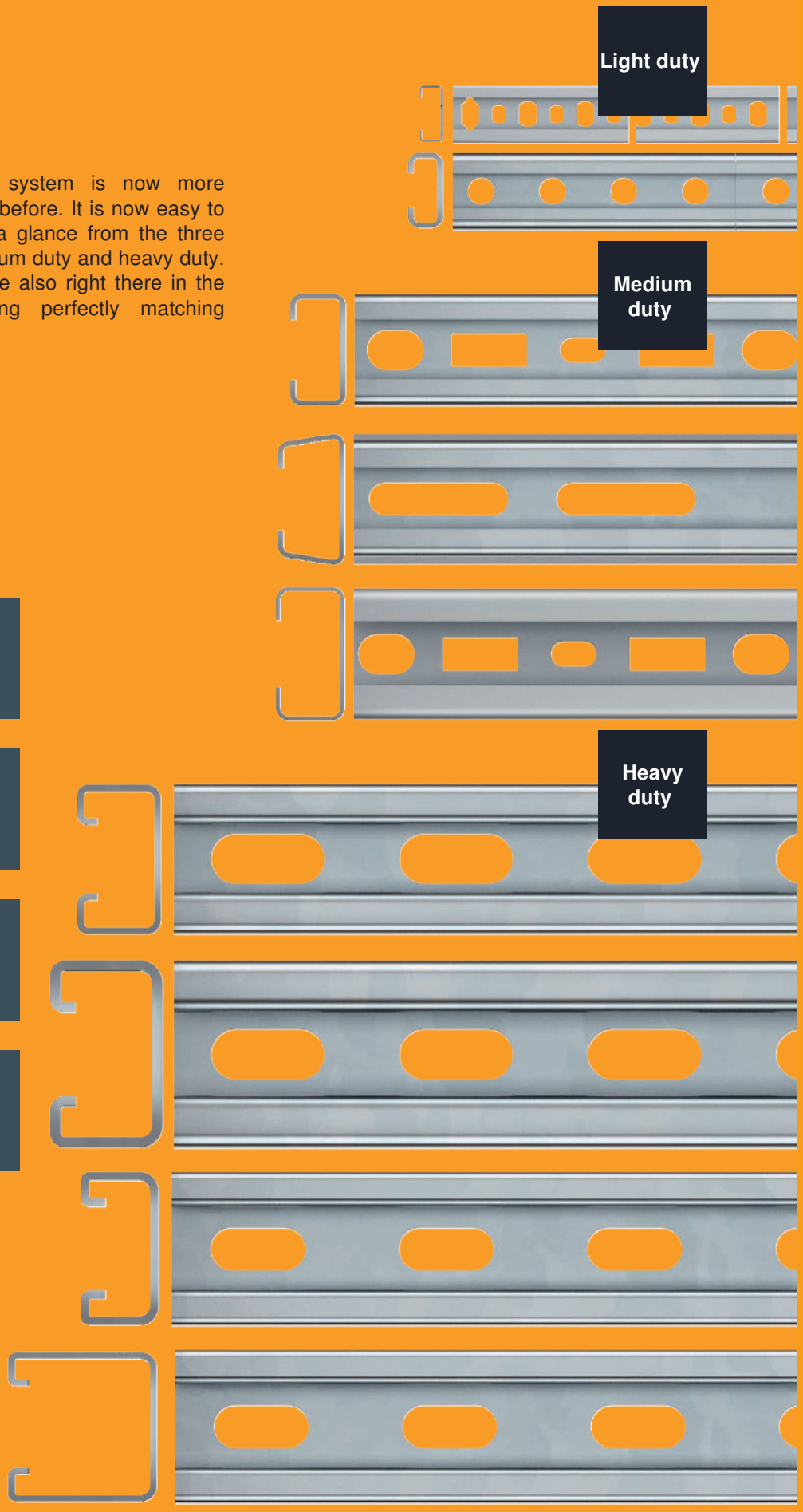


Type	Width mm	Dim. b mm		Pack Piece	Weight kg/100 pc.	Item no.
BFK 187 33 A2	187	135		10	42.000	**6003879**

Beam clamp for clamping on the steel girder.
The cable support system attached to the beam clamp runs horizontally.

Rail systems from OBO

OBO's tried-and-tested rail system is now more logically structured than ever before. It is now easy to choose the right product at a glance from the three load classes: Light duty, medium duty and heavy duty. The matching accessories are also right there in the selection aids. So choosing perfectly matching products is simply a breeze.



Highly versatile

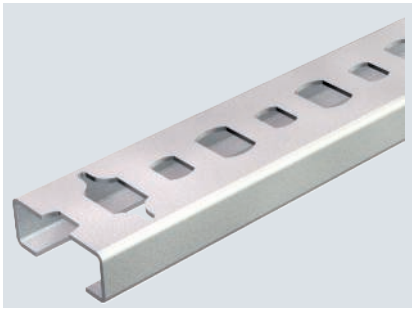
Different perforation patterns

Strip galvanised and hot-dip galvanised

Stainless steel grades V2A and V4A

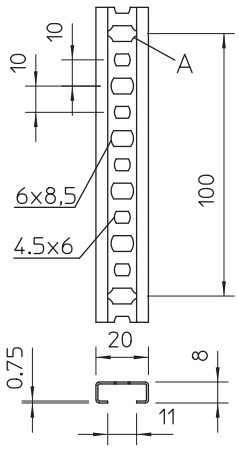
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CL2008 profile rail, slot 11 mm, perforated, breakable

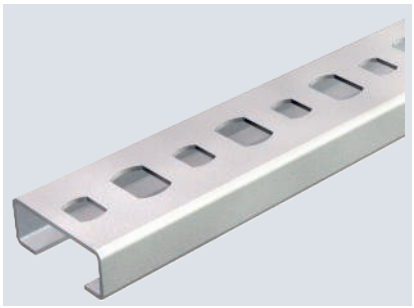


Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2008BP2000FS	2000	0.75	2	21.100	**1106120**

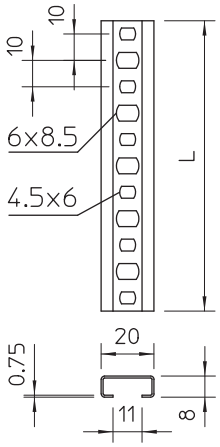


CL2008 profile rail, slot 11 mm, perforated



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

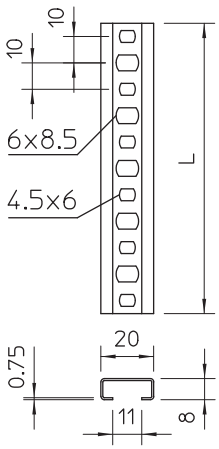
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2008P2000FS	2000	0.75	2	20.000	**1106627**
CL2008BP2000FS	2000	0.75	2	21.100	**1106120**



A2 2B

CL2008 profile rail, slot 11 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2008P2000A2	2000	0.75	2	21.400	**1106628**



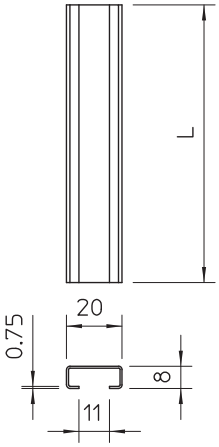


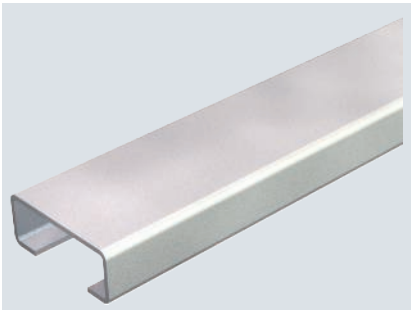
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

St FS

CL2008 profile rail, slot 11 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2008UP2000FS	2000	0.75	2	20.000	**1105124**





Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

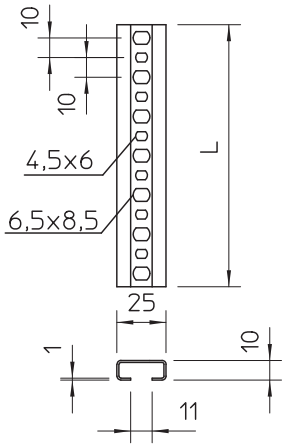
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CL2510 profile rail, slot 11 mm, perforated



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2510P2000FS	2000	1		2	36.800	**1108123**

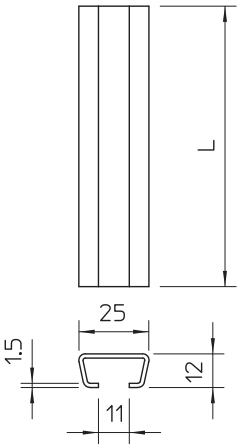


Profile rail CL2512, slot 11 mm, unperforated



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2512UP2000FS	2000	1.5		2	58.300	**1117033**



St A2 FS FT

Profile rail CL2512, slot 11 mm, unperforated

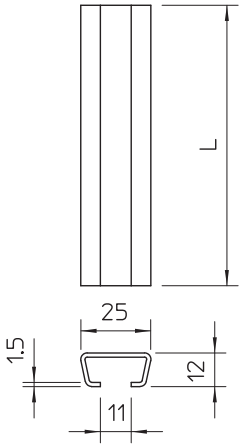
Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2512UP2000FT	2000	1.5		2	65.000	**1117025**
CL2512UP2000FS	2000	1.5		2	58.300	**1117033**
CL2512UP2000A2	2000	1.5		2	58.300	**1117068**



Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Dimension W x H mm	Dim. L mm
CL2512UP2000FT	25 x 12	2000
CL2512UP2000FS	25 x 12	2000
CL2512UP2000A2	25 x 12	2000

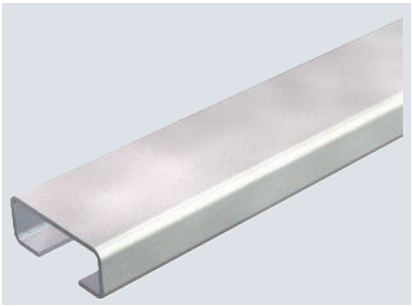
Dimensions



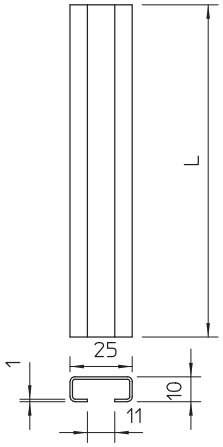
St FS

CL2510 profile rail, slot 11 mm, unperforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CL2510UP2000FS	2000	1		2	36.000	**1107127**



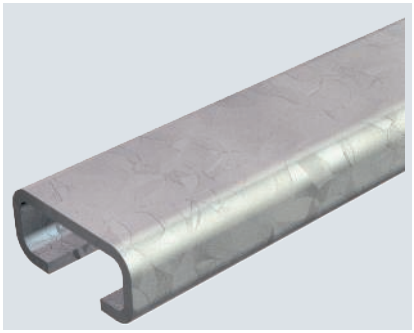
Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.



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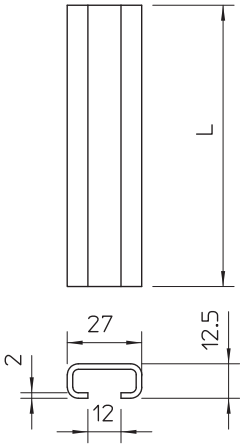
Always indicate the item number when ordering.

Profile rail CL2712, slot 12 mm, unperforated

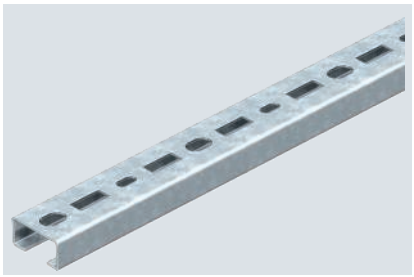


Light-duty C profile rail for cable routing, in conjunction with series clips or clamp clips with N foot. Can also be used in building of control cabinets.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CL2712UP2000FT	2000	2	2	90.000	**1109022**

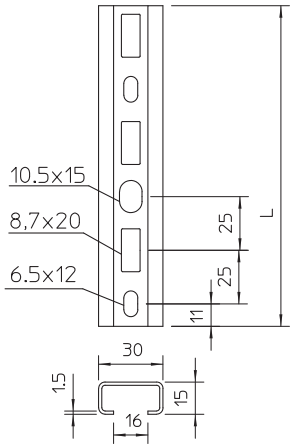


CM3015 profile rail, slot 16 mm, perforated



Profile rail, perforated, slot width 16 mm.

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
CM3015P0500FT	500	1.5	10	37.000	**1109812**
CM3015P1000FT	1000	1.5	10	73.000	**1109863**
CM3015P2000FT	2000	1.5	2	73.000	**1109871**
CM3015P2000FS	2000	1.5	2	69.000	**1110002**

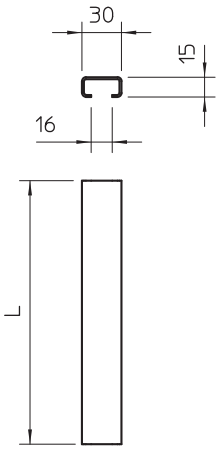


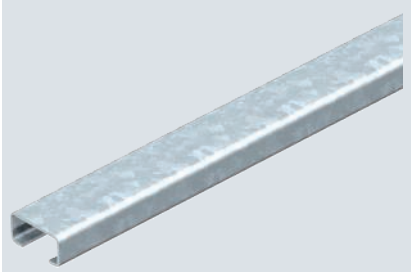
St FS

16 H

CM3015 profile rail, slot 16 mm, unperforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
CM3015UP2000FS	2000	1.5		2	75.500	**1110004**





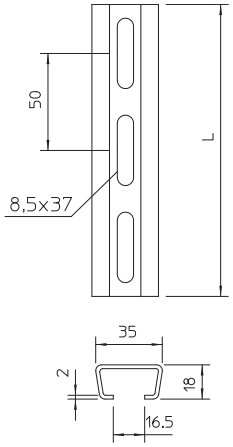
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

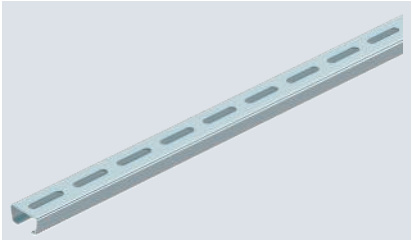
St FS FT

16,5 H

Anchor rail AML3518, slot width 16.5 mm, perforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AML3518P1000FS	1000	1.5		1	82.000	**1119646**
AML3518P2000FS	2000	1.5		2	82.500	**1119648**
AML3518P1000FT	1000	1.5		10	89.000	**1119672**
AML3518P2000FT	2000	1.5		2	89.000	**1119656**



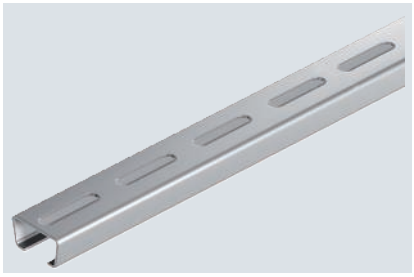


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

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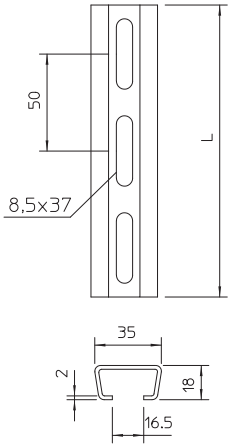
Always indicate the item number when ordering.

AML3518 anchor rail, slot 16.5 mm, perforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518P2000A2	2000	1.5	2	82.000	**1119702**

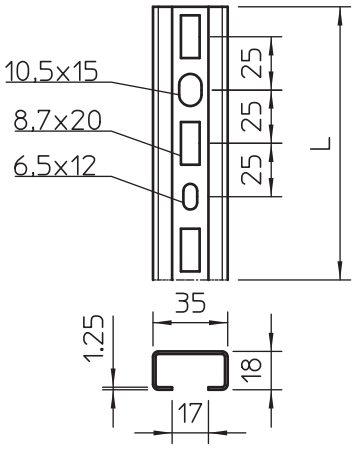


CML3518 profile rail, slot 17 mm, perforated



Light-duty profile rail, perforated, slot width 17 mm.

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
CML3518P0200FS	200	1.25	25	14.200	**1104268**
CML3518P0500FS	500	1.25	10	35.500	**1104306**
CML3518P0200FT	200	1.25	25	15.300	**1104552**

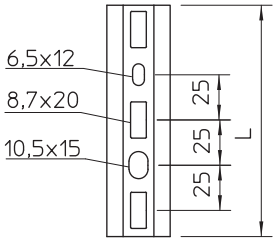


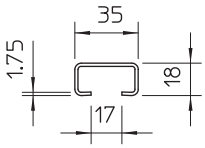
St FS

E30 E90

CMS3518 profile rail, slot 17 mm, perforated

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
CMS3518P0300FS	300	1.75	25	29.340	**1104373**







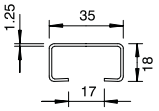
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

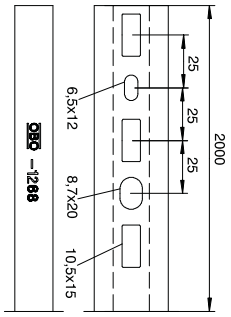
St FS FT

E30 E90

CML3518 profile rail, slot 17 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CML3518P1000FS	1000	1.25	1	71.000	**1104497**
CML3518P2000FS	2000	1.25	2	71.000	**1104500**
CML3518P2000FT	2000	1.25	20	73.600	**1104570**
CMS3518P1000FS	1000	1.75	10	97.800	**1104445**
CMS3518P2000FS	2000	1.75	2	97.800	**1104454**







Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

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Always indicate the item number when ordering.

CMS3518 profile rail, slot 17 mm, perforated

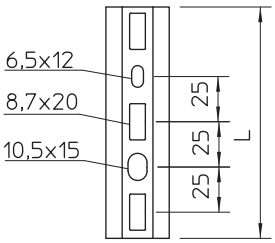
St FT
17 H E30 E90

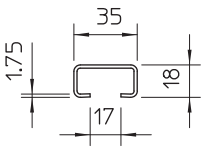


Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
CMS3518P1000FT	1000	1.75	10	102.900	**1104598**
CMS3518P2000FT	2000	1.75	20	102.900	**1104599**

Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Dimensions

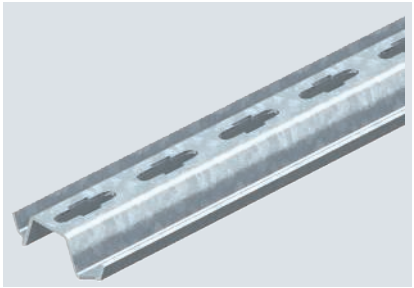




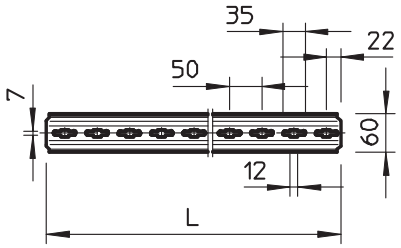
Type	Dimension W x H mm	Dim. L mm
CMS3518P1000FT	35 x 18	1000
CMS3518P2000FT	35 x 18	2000

TP profile

St FS
TP



Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPS 3000 FS	3000	1	441.000	**6364802**



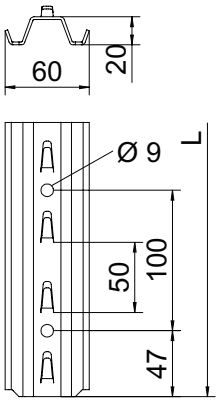
TP profile, perforated, in supply length 3,000 mm.

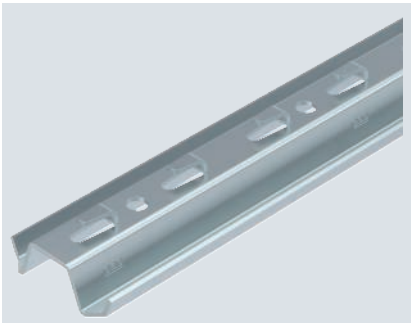
St FS FT

TP

TP profile

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
TPSG 3000 FS	3000	1	441.000	6366090
TPSG 3000 FT	3000	1	461.000	6366093





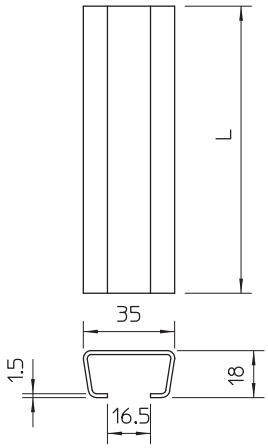
TP profile with clamping lugs.

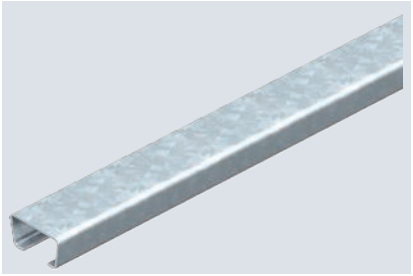
St FT

16,5 H

AML3518 anchor rail, slot 16.5 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000FT	2000	1.5	2	89.400	1118129



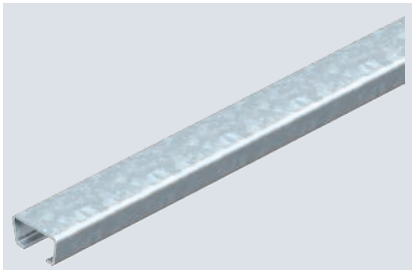


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

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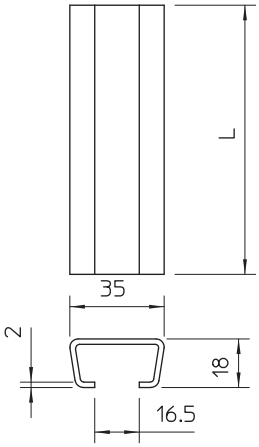
Always indicate the item number when ordering.

AMS3518 anchor rail, slot 16.5 mm, unperforated

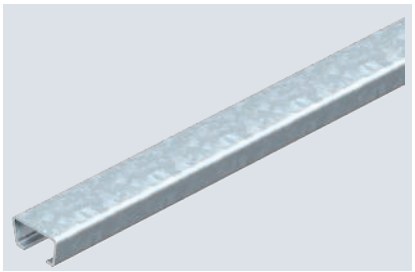


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518UP2000FS	2000	2	2	116.000	**1112120**

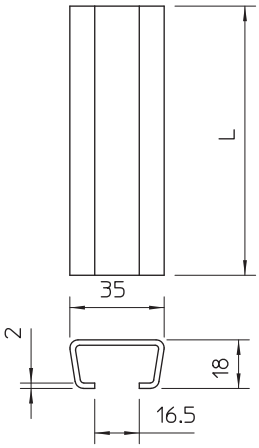


AMS3518 anchor rail, slot 16.5 mm, unperforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518UP2000FT	2000	2	2	121.350	**1112228**

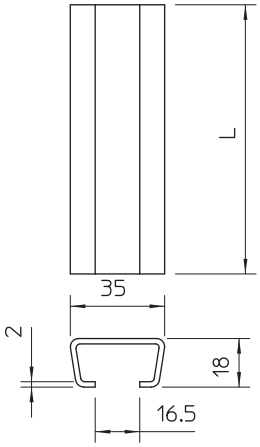


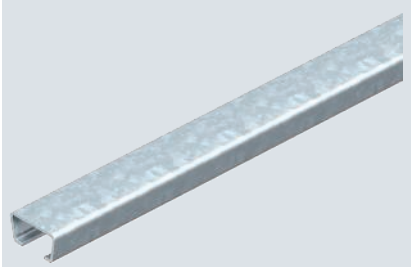
St FS FT

16,5 H

AMS3518 anchor rail, slot 16.5 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518UP2000FS	2000	2	2	116.000	1112120
AMS3518UP2000FT	2000	2	2	121.350	1112228





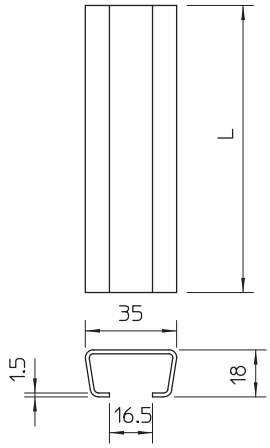
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

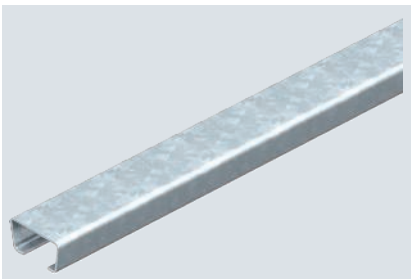
St BK

16,5 H

AML3518 anchor rail, slot 16.5 mm, unperforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AML3518UP2000BK	2000	1.5	2	90.000	1118021



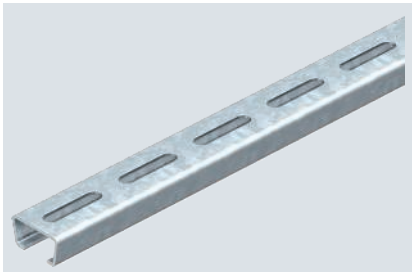


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

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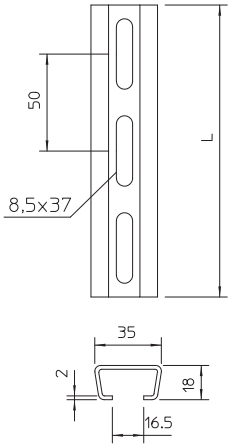
Always indicate the item number when ordering.

Anchor rail AMS3518, slot 16.5 mm, perforated

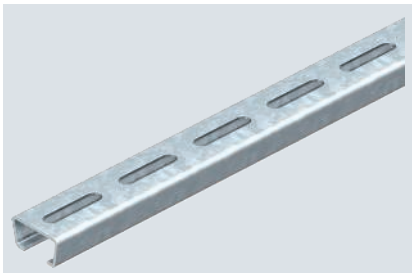


Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AMS3518P2000FS	2000	2		2	115.000	**1112708**

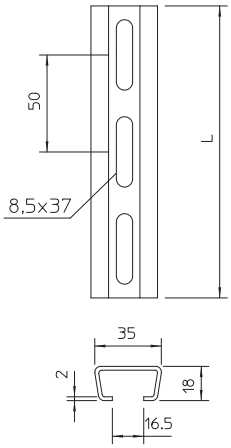


Anchor rail AMS3518, slot 16.5 mm, perforated



Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
AMS3518P2000FT	2000	2		2	122.000	**1112759**

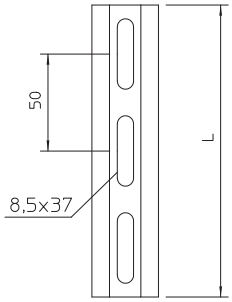


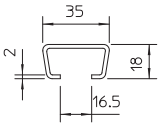
A2 2B

16,5 H

Anchor rail AMS3518, slot 16.5 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
AMS3518P2000A2	2000	2	2	107.000	**1112709**







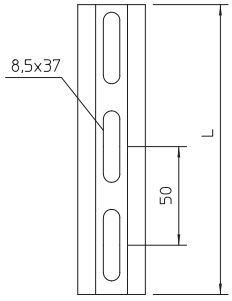
Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

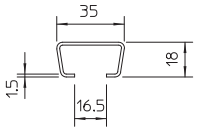
St FT

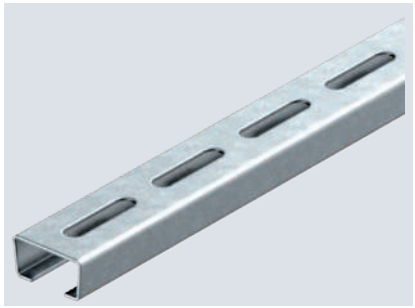
16,5 H

Anchor rail AML3518, slot 16.5 mm, perforated

Type	Length mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
AML3518P0300FT	300	1.5	25	26.300	**1119693**
AML3518P0500FT	500	1.5	10	43.700	**1119687**
AML3518P0700FT	700	1.5	10	62.300	**1119681**
AML3518P0800FT	800	1.5	10	71.200	**1119678**







Central C profile rail for cable routing, in conjunction with clamp clips with a hammerhead foot. Can also be used as suspension construction for cable support systems.

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MS4121 mounting rail

Heavy-duty C profile rail for the individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Slot width 22 mm



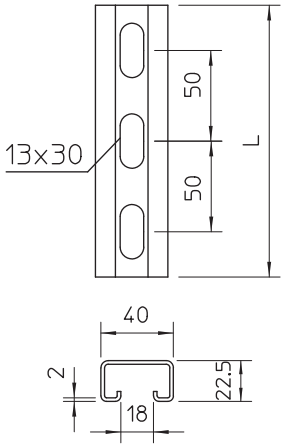
Double version (clinched)

Slot width 22 mm

St FT

MS4022 mounting rail, heavy duty, slot 18 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000FT	2000	2	2	152.500	**1121979**



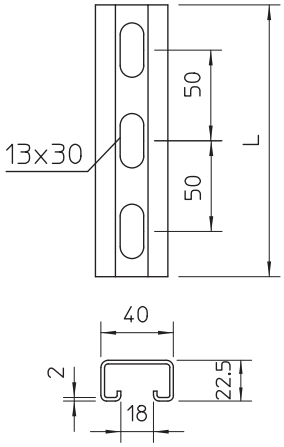


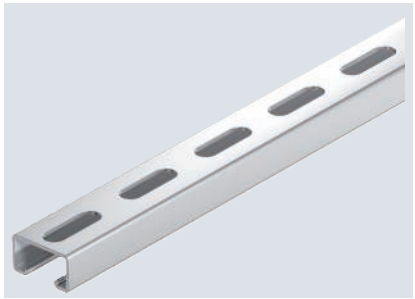
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

A2 2B

MS4022 mounting rail, heavy duty, slot 18 mm, perforated

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4022P2000A2	2000	2	2	152.500	**1121960**



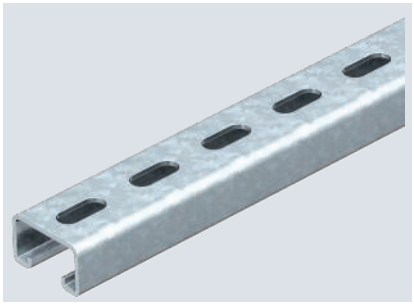


Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

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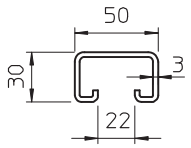
MS5030 mounting rail, slot 22 mm, perforated

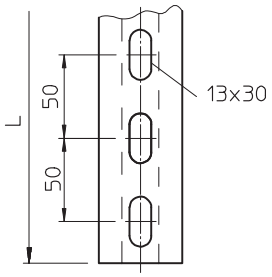
St A2 FT 2B



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
MS5030P1000FT	1000	3		1	282.500	1121448
MS5030P2000FT	2000	3		2	282.500	1121464
MS5030P3000FT	3000	3		3	308.100	1121466
MS5030P6000FT	6000	3		6	282.500	1121472
MS5030P2000A2	2000	3		2	280.000	1121480
MS5030P6000A2	6000	3		6	282.500	1121499





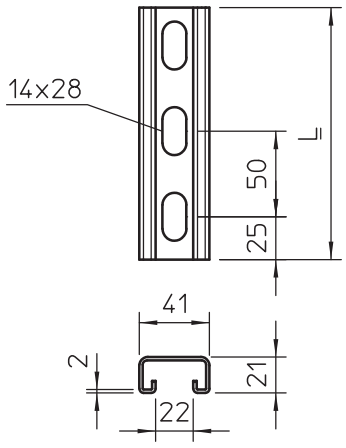
MS4121 mounting rail, slot 22 mm, perforated

St FS FT E30 E90



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm	BS		Pack m	Weight kg/100 m	Item no.
MS4121P2000FS	2000	2			2	175.000	1122918
MS4121P3000FS	3000	2			3	141.900	1122920
MS4121P2000FT	2000	2			2	183.000	1122923
MS4121P3000FT	3000	2			3	151.300	1122924
MS4121P6000FT	6000	2			6	184.000	1122926

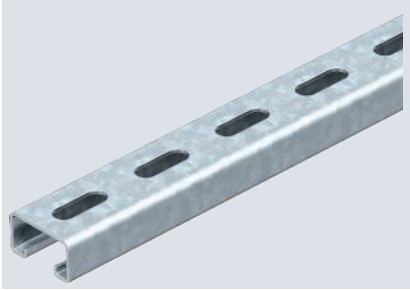


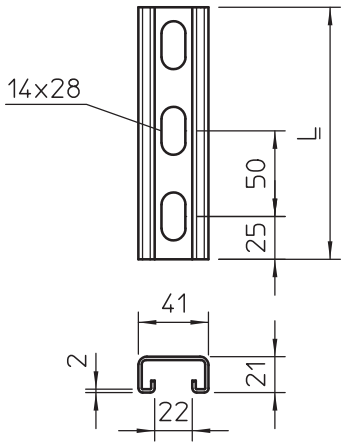
St FS FT

22 U

MS4121 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
MS4121P0300FS	300	2		1	52.500	**1122951**
MS4121P0200FT	200	2		1	35.100	**1122933**
MS4121P0300FT	300	2		1	53.000	**1122934**
MS4121P0400FT	400	2		1	70.000	**1122935**





Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

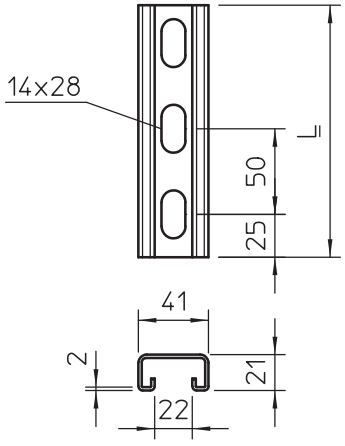
A2 A4 2B

22 U

MS4121 mounting rail, slot 22 mm, perforated

Type	Length mm	Material thickness mm		Pack m	Weight kg/100 m	Item no.
MS4121P2000A2	2000	2		2	140.950	**1122925**
MS4121P3000A2	3000	2		3	185.340	**1122928**
MS4121P6000A2	6000	2		6	140.950	**1122929**
MS4121P2000A4	2000	2		2	175.000	**1122476**
MS4121P6000A4	6000	2		6	172.670	**1122932**





Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

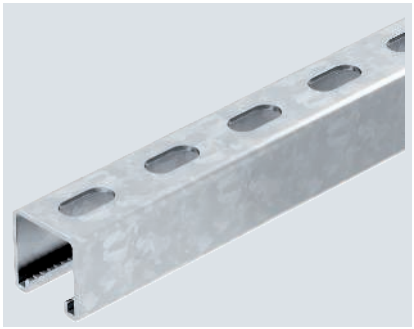
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Always indicate the item number when ordering.

MS4141 mounting rail, slot 22 mm, perforated

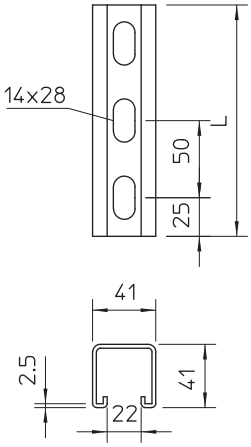
St FS FT

U 22



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

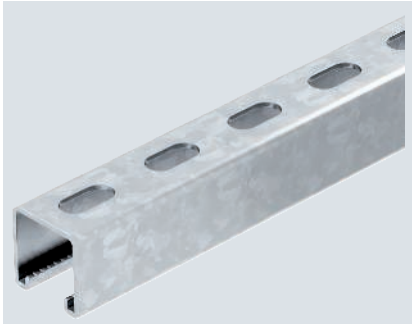
Type	Length mm	Material thickness mm	BS	Pack m	Weight kg/100 m	Item no.
MS4141P3000FS	3000	2.5		3	247.500	1122910
MS4141P6000FS	6000	2.5		6	247.500	1122912
MS4141P3000FT	3000	2.5		3	261.400	1122622
MS4141P6000FT	6000	2.5		6	260.670	1122657



MSL4141 mounting rail, slot 22 mm, perforated

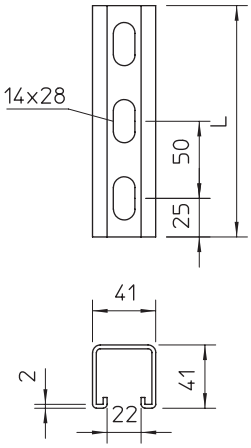
St FS FT

U 22



Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

Type	Length mm	Material thickness mm	BS	Pack m	Weight kg/100 m	Item no.
MSL4141P3000FS	3000	2		3	201.100	1122972
MSL4141P6000FS	6000	2		6	201.100	1122974
MSL4141P3000FT	3000	2		3	214.700	1122964
MSL4141P6000FT	6000	2		6	214.700	1122966

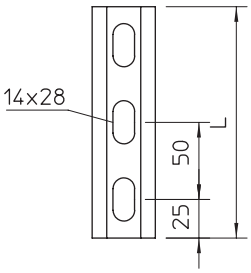


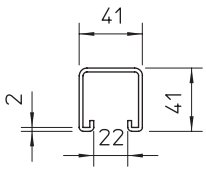
St A2 FS FT 2B

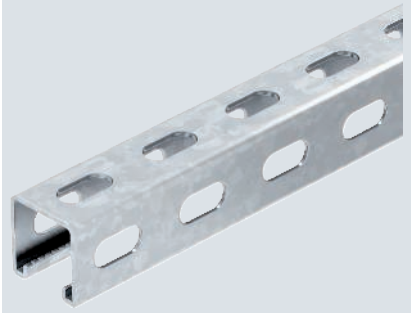
U 22

MS4141 mounting rail, slot 22 mm, side perforation

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MSL4141PP1000FS	1000	2	1	179.400	1123008
MSL4141PP3000FS	3000	2	3	179.400	1123010
MSL4141PP6000FS	6000	2	6	179.400	1123012
MSL4141PP1000FT	1000	2	1	191.500	1123001
MSL4141PP3000FT	3000	2	3	191.500	1123003
MSL4141PP6000FT	6000	2	6	191.500	1123005
MSL4141PP3000A2	3000	2	3	179.400	1123016







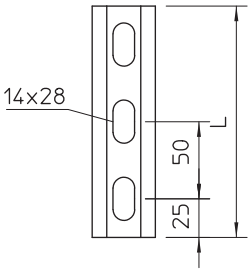
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

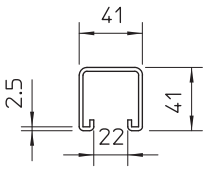
St FS FT

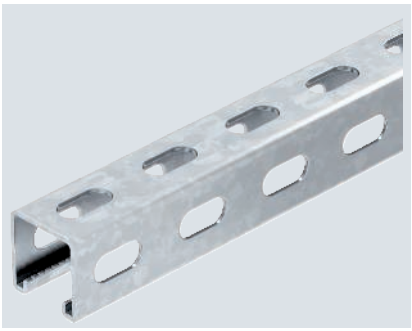
U 22

MS4141 mounting rail, slot 22 mm, side perforation

Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4141PP1000FS	1000	2.5	1	281.000	1122481
MS4141PP3000FS	3000	2.5	3	218.000	1122914
MS4141PP3000FT	3000	2.5	3	233.340	1122483
MS4141PP6000FT	6000	2.5	6	225.000	1122487







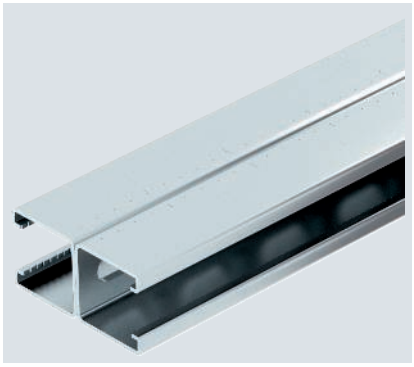
Heavy-duty C profile rail for individual installation of support constructions, e.g. for cable trays or as a panel for switchgear cabinets. Can also be used for cable routing, in conjunction with clamp clips with a U foot.

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MS4182 mounting rail, slot 22 mm, double, perforated

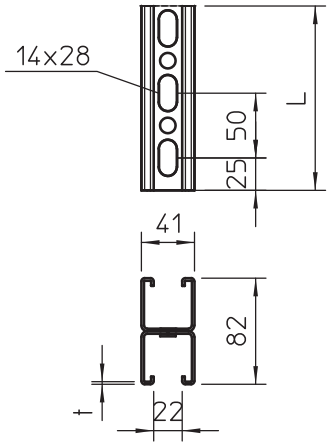
St FT

U 22



Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm. Double version, i.e. two profile rails are interconnected on the base (clinched).

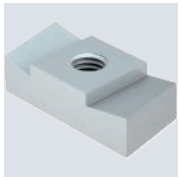
Type	Length mm	Material thickness mm	Pack m	Weight kg/100 m	Item no.
MS4182P3000FT	3000	2	3	402.200	**1122671**
MS4182P6000FT	6000	2	6	402.200	**1122673**

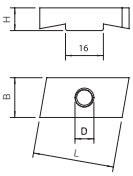


Accessories, mounting rails

Slide nut

St ZL





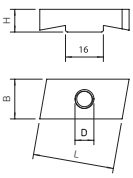
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40SN M6 ZL	35	17	10	M6	50	3.750	**1147106**
MS40SN M8 ZL	35	17	10	M8	50	3.600	**1147110**
MS40SN M10 ZL	35	17	10	M10	50	3.400	**1147114**
MS40SN M12 ZL	35	17	11.5	M12	50	3.160	**1147118**

Slide nut for use with MS4022 profile rail

Slide nut

A4 2B



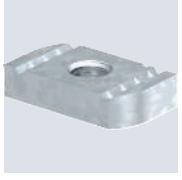


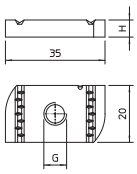
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40SN M8 A4	35	17	10	M8	50	3.600	**1147130**
MS40SN M10 A4	35	17	10	M10	50	3.400	**1147134**

Slide nut for use with MS4022 profile rail

Slide nut

St ZL





Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SN M6 ZL	35	20	6	M6	50	2.880	**1147206**
MS41SN M8 ZL	35	20	6	M8	50	2.800	**1147210**
MS41SN M10 ZL	35	20	8	M10	50	3.650	**1147214**

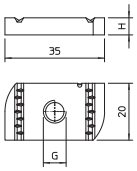
Slide nut for use with MS4121 und MS4141 profile rails

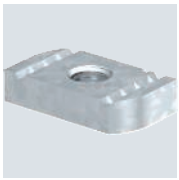
A4 2B

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SN M6 A4	35	20	6	M6	50	2.880	**1147226**

Slide nut for use with MS4121 und MS4141 profile rails



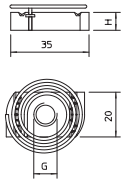


St F

Slide nut with spring

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SNF M6 F	35	20	6	M6	50	3.200	**1147306**
MS41SNF M8 F	35	20	6	M8	50	3.150	**1147310**
MS41SNF M10 F	35	20	8	M10	50	4.000	**1147314**

Slide nut with spring for use with MS4121 und MS4141 profile rails



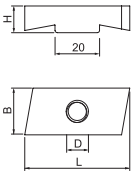


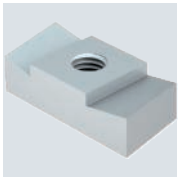
St ZL

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 ZL	43	21	12	M6	50	6.700	**1147156**
MS50SN M8 ZL	43	21	12	M8	50	6.550	**1147160**
MS50SN M10 ZL	43	21	12	M10	50	6.350	**1147164**
MS50SN M12 ZL	43	21	12	M12	50	6.100	**1147168**

Slide nut for use with MS5030 profile rail



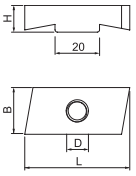


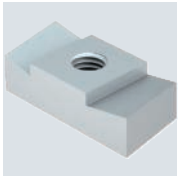
A4 2B

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 A4	43	21	12	M6	50	6.700	**1147172**
MS50SN M8 A4	43	21	12	M8	50	6.550	**1147186**

Slide nut for use with MS5030 profile rail



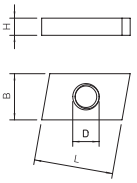


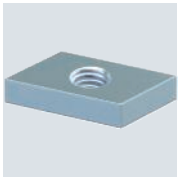
St ZL

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 ZL	26	16.5	4	M6	100	1.212	**1147056**
ACMSN M8 ZL	26	16.5	5	M8	100	1.640	**1147060**

Slide nut for use with CM3015, CM3518 and AM3518 profile rails



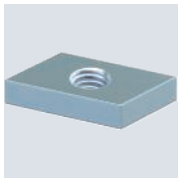


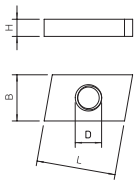
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Always indicate the item number when ordering.

Slide nut

A4 2B



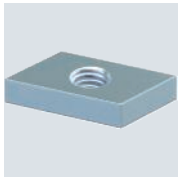


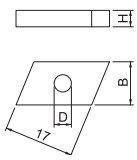
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 A4	26	16.5	4	M6	100	1.650	**1147076**

Slide nut for use with CM3015, CM3518 and AM3518 profile rails

Slide nut

St ZL



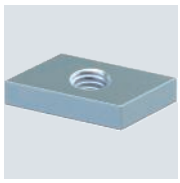


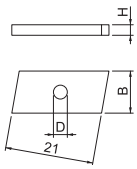
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL20SN M5 ZL	17	10.5	4	M5	100	0.508	**1147012**
CL20SN M6 ZL	17	10.5	4	M6	100	0.503	**1147016**

Slide nut for use with CL2008 profile rail

Slide nut

St ZL





Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL27SN M6 ZL	24.5	13	4	M6	100	0.850	**1147028**

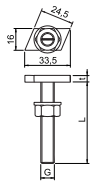
Slide nut for use with CL2712 profile rail

Hook-head screw

St ZL

18





Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M10x30 ZL	35	14	7.5	M10x30mm	50	6.000	**1148118**

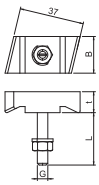
Hook-head screw for use with MS4022 profile rail

Hook-head screw

St ZL

22





Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50HB M8x30 ZL	43	21	12	M8x30mm	50	8.700	**1148210**
MS50HB M10x30 ZL	43.3	13	10	M10x30mm	50	7.700	**1148218**
MS50HB M12x60 ZL	43.3	13	10	M12x60mm	25	11.650	**1148230**

Hook-head screw for use with MS5030 profile rail

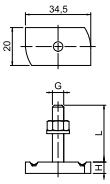
St ZL

22

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M8x30 ZL	34.5	20	6	M 8 x 30	8	50	4.850	**1148310**
MS41HB M10x30 ZL	34.5	20	8	M 10 x 30	16	50	7.400	**1148322**
MS41HB M12x30 ZL	34.5	20	9	M 12 x 30	27	50	9.750	**1148334**
MS41HB M12x60 ZL	34.5	20	9	M 12 x 60	27	25	12.400	**1148338**

Hammer-head bolt for use with MS4121 and MS4141 profile rails



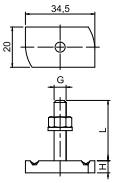


A4 2B

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M12x60 A4	34.5	20	9	M 12 x 60	14.4	25	12.400	**1148438**

Hammer-head bolt for use with MS4121 and MS4141 profile rails



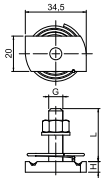


St FT

Hammer-head bolt with spring

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M8x60 FT	34.5	20	6	M 8 x 60	8	25	6.300	**1148380**
MS41HBF M10x60FT	34.5	20	8	M 10 x 60	16.1	25	9.550	**1148388**

Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails





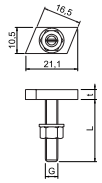
St ZL

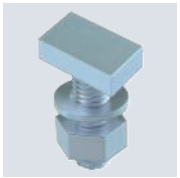
11

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL20HB M5x25 ZL	21.1	10.5	4	M 5 x 25mm	50	1.100	**1148008**
CL20HB M8x25 ZL	21.1	10.5	4	M 8 x 25mm	50	2.150	**1148016**

Hammer-head bolt for use with CL2008 profile rail





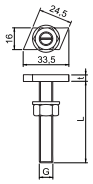
St ZL

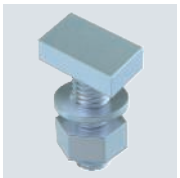
17

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMHB M6x30 ZL	33.5	16	5	M 6 x 30mm	50	2.600	**1148056**
ACMHB M8x30 ZL	33.5	16	5	M 8 x 30mm	50	3.197	**1148060**

Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails



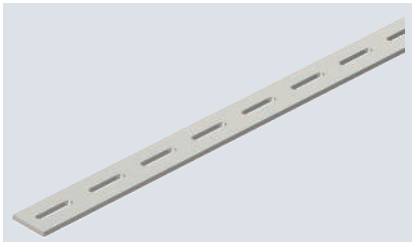


Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

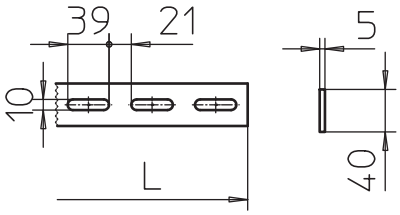
Always indicate the item number when ordering.

Construction and suspension profile, SL62

A2 2B



Type	Dimension mm	Length mm	Pack m	Weight kg/100 m	Item no.
SLH 62 3000 A2	40x5	3000	3	133.000	**7103650**

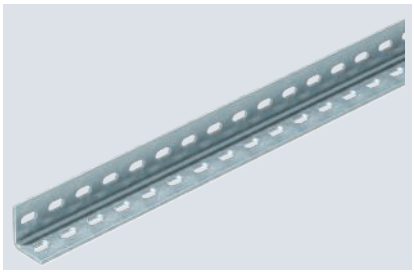


The rail profile is available in unpainted steel on request.

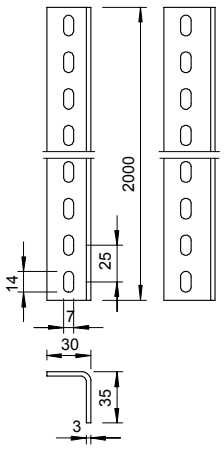
Perforated side rail of ship cable ladder, SL 62, for creation of suspension and support constructions.

Angle profile WP30/35

St FT



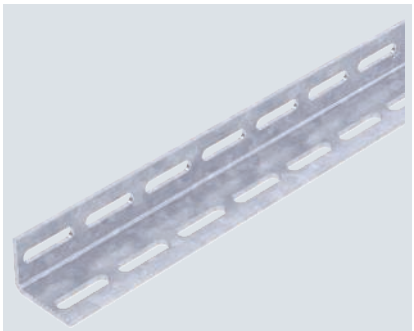
Type	Length mm	Metal thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WP 30 35 2000 FT	2000	3.00	1	257.000	**6373100**
WP 30 35 5000 FT	5000	3.00	1	643.000	**6373103**



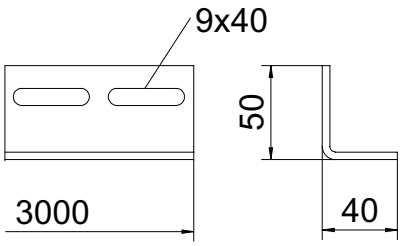
Angle profile, perforated on both sides, for creation of special support structures.

Angle profile WP40/50

St FT



Type	Length mm	Metal thickness mm	Pack m	Weight kg/100 m	Item no.
WP 40 50 3000 FT	3000	4.00	3	224.000	**6373200**



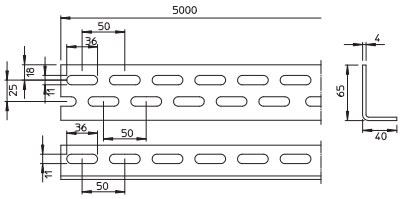
Perforated angle profile for the creation of special support structures.

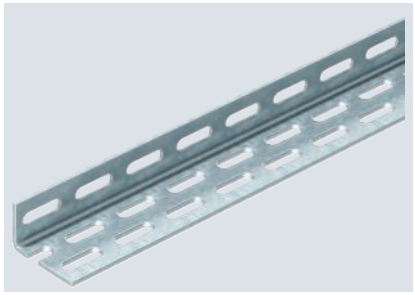
The angle profile can be used to create pendant suspensions.

St FT

Angle profile WP40/65

Type	Length mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
WP 40 65 5000 FT	5000	4.00	5	250.000	**6373070**



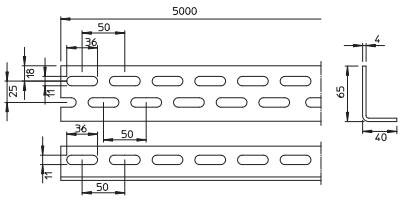


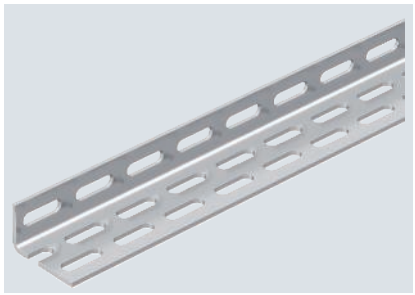
Angle profile, perforated on both sides, for creation of special support structures.

A2 2B

Angle profile WP40/65

Type	Length mm	Metal thick-ness mm	Pack m	Weight kg/100 m	Item no.
WP 40 65 5000 A2	5000	4.00	5	241.600	**6373062**





Angle profile, perforated on both sides, for creation of special support structures.

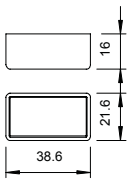
Accessories, profile rails

PE

End cap CM3518/AM3518

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
CM3518 SK	Pastel orange	50	0.384	**1124502**

End cap for profile rail types CM3518 and AM3518.



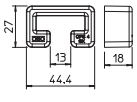


PE

End cap MS4022

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4022 SK	Pastel orange	25	0.647	**1124555**

End caps for profile rail, type MS4022.





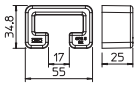
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Always indicate the item number when ordering.

End cap MS5030

PE





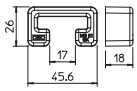
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS5030 SK	Pastel orange	25	1.147	**1124563**

End caps for profile rail, type MS5030.

End cap MS4121

PE



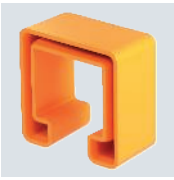


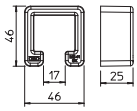
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4121 SK	Pastel orange	25	0.611	**1122902**

End cap for profile rail, type MS4121.

End cap MS4141

PE





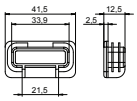
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4141 SK	Pastel orange	25	1.212	**1122900**

End cap for profile rail, type MS4141.

End cap MS4121

PE





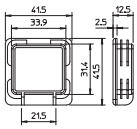
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4121 EK	Pastel orange	50	0.645	**1122904**

End cap for profile rail, type MS4121.

End cap MS4141

PE





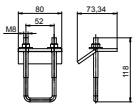
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
MS4141 EK	Pastel orange	50	0.670	**1122906**

End cap for profile rail, type MS4141.

St FT

Clamp

Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
SB MS 41 M8 FT	118	80	74	20	32.300	1124679



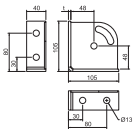


Connection element for two-sided fastening of profile rails to steel girders. Fastening is possible independently of the arrangement of the rail opening. The rail length should be at least the width of the steel girder + 2 x 50 mm. Always use in pairs for mounting. For use with profile rail MS4022, MS4141, MS4142, MS4124.

St FT

Mounting bracket, 90° with 6 holes

Type	Version	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
GMS 6 KD FT	90° bracket	5	10	50.900	1124792





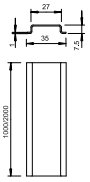
Reinforced mounting bracket with 6 holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°. Additional fastening option for a strut at an angle of 45° with an adjusting range of +/- 30°. Can be used for angles between 15° and 75°.

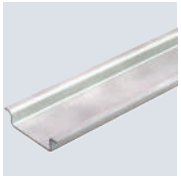
Hat profile and support rail

St FS

Hat profile rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 1M FS	Unperforated	1	1000	25	36.020	1115677
2069 2M FS	Unperforated	1	2000	50	36.033	1115626



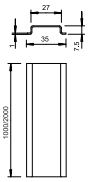


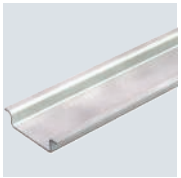
Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

St GTP

Hat profile rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 2M GTP	Unperforated	1	2000	50	36.040	1115650



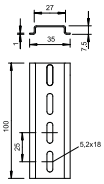


Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

St GTP

Hat profile rail, perforated

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 2M GTPL	Perforated	1	2000	50	33.280	1115669



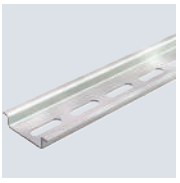


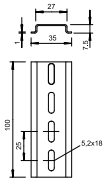
Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

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Hat profile rail, perforated

St FS



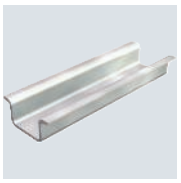


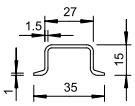
Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 L 2M FS	Perforated	1	2000	50	33.280	**1115804**

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

Hat profile rail, unperforated

St GTP



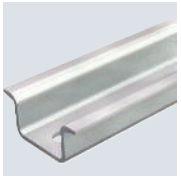


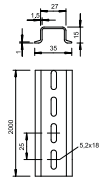
Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 1.5 GTP	Unperforated	1.5	2000	20	66.000	**1115421**

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

Hat profile rail, perforated

St GTP



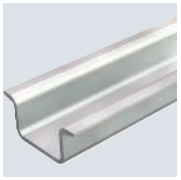


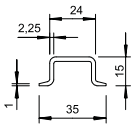
Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 1.5 GTPL	Perforated	1.5	2000	20	64.000	**1115456**

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

Hat profile rail, unperforated

St GTP



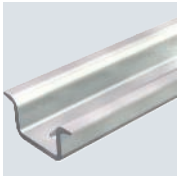


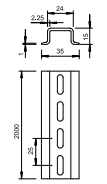
Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 2.2 GTP	Unperforated	2.25	2000	20	97.000	**1115553**

Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).

Hat profile rail, perforated

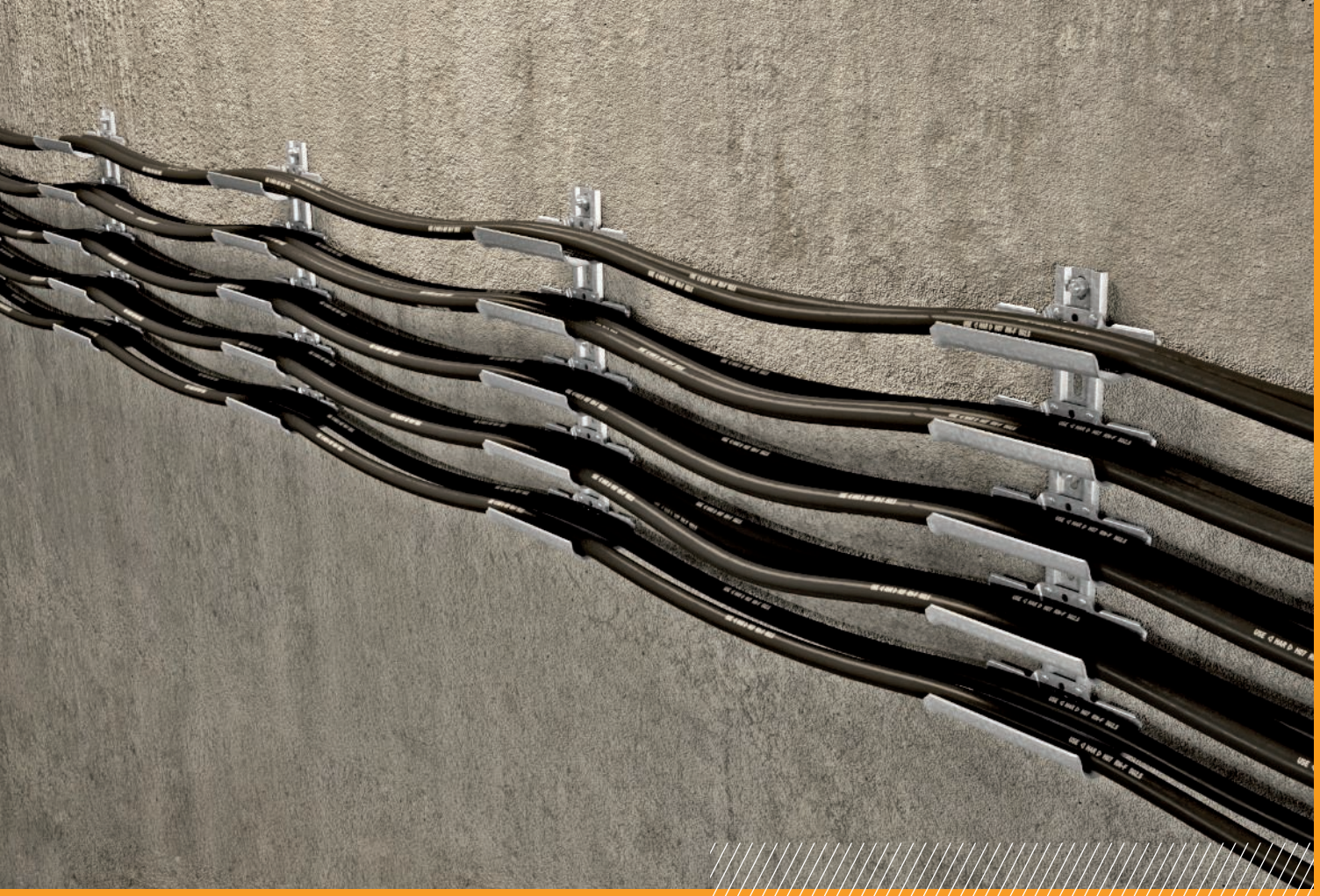
St GTP





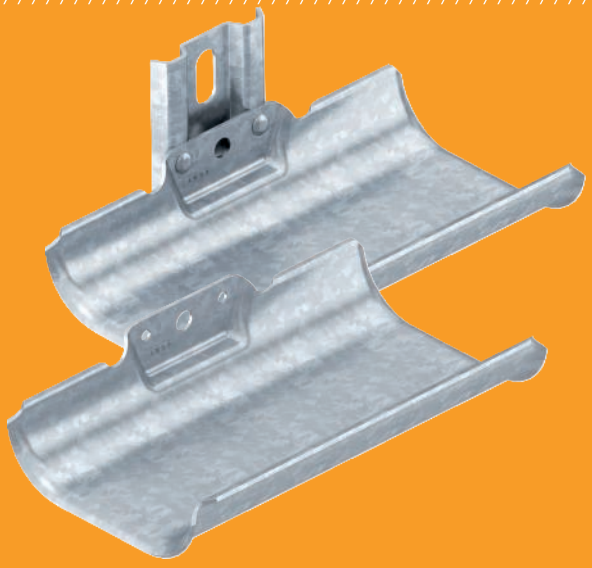
Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 2.2 GTPL	Perforated	2.25	2000	20	97.000	**1115596**

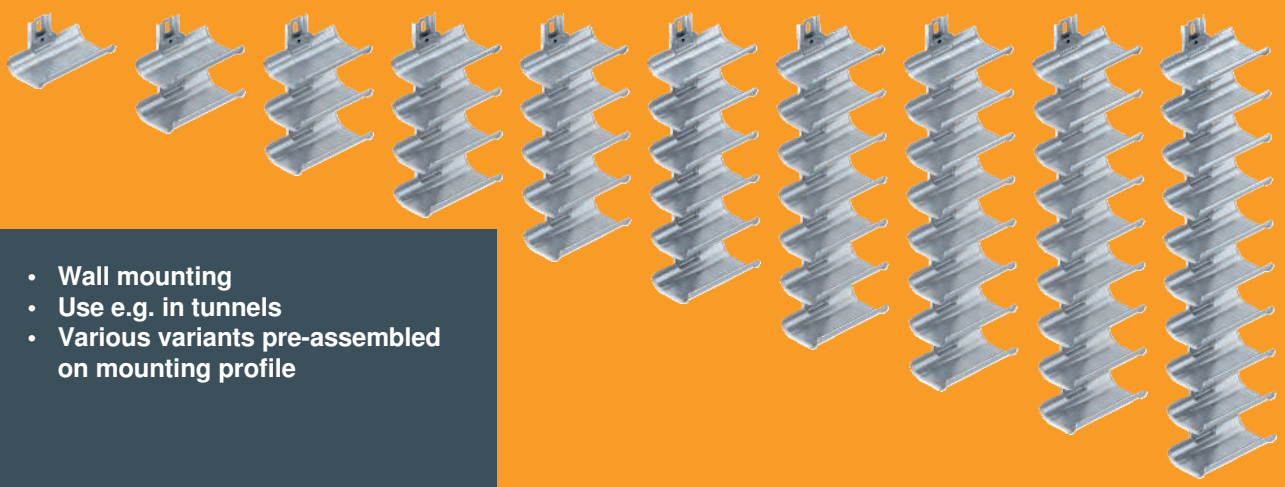
Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).



Cable support brackets

Cable support troughs are used for quick and easy routing of cables in areas where conventional cable support systems cannot be installed due to lack of space. The cable support troughs have a large load-bearing surface and rounded outer edges to protect the cables.





- **Wall mounting**
- **Use e.g. in tunnels**
- **Various variants pre-assembled on mounting profile**

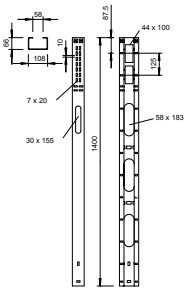
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Motor connection column

Motor connection column

St FT





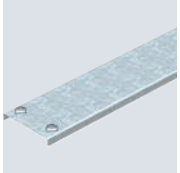
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MAS 140 10 FT	1400	1	505.000	**6356311**

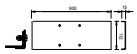
Vertical motor connection column to supply electrical devices.

Accessories, motor connection columns

Cover for motor connection column

St FT





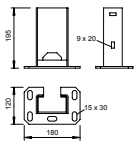
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MASD 90 FT	900	1	160.000	**6356915**

Cover with turn buckle for motor connection column.

Column foot

St FT





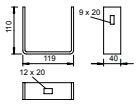
Type	Pack Piece	Weight kg/100 pc.	Item no.
SF 140 11 FT	1	200.000	**6356397**

Column foot for fastening of the motor connection column.

Mounting bracket

St FT



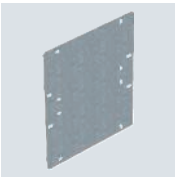


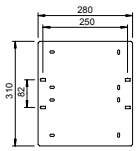
Type	Pack Piece	Weight kg/100 pc.	Item no.
BF 140 10 FT	10	50.000	**6356362**

Mounting bracket for side fastening of motor connection columns to bases or on the wall.

Device plate GP 31

St FT





Type	Pack Piece	Weight kg/100 pc.	Item no.
GP 31 28 FT	1	210.000	**6357016**

Mounting plate for fastening to motor connection column, type MAS 140/10.



Connection systems & routing systems


Junction boxes 470


Flush-mounted systems 530


Cavity wall systems 542

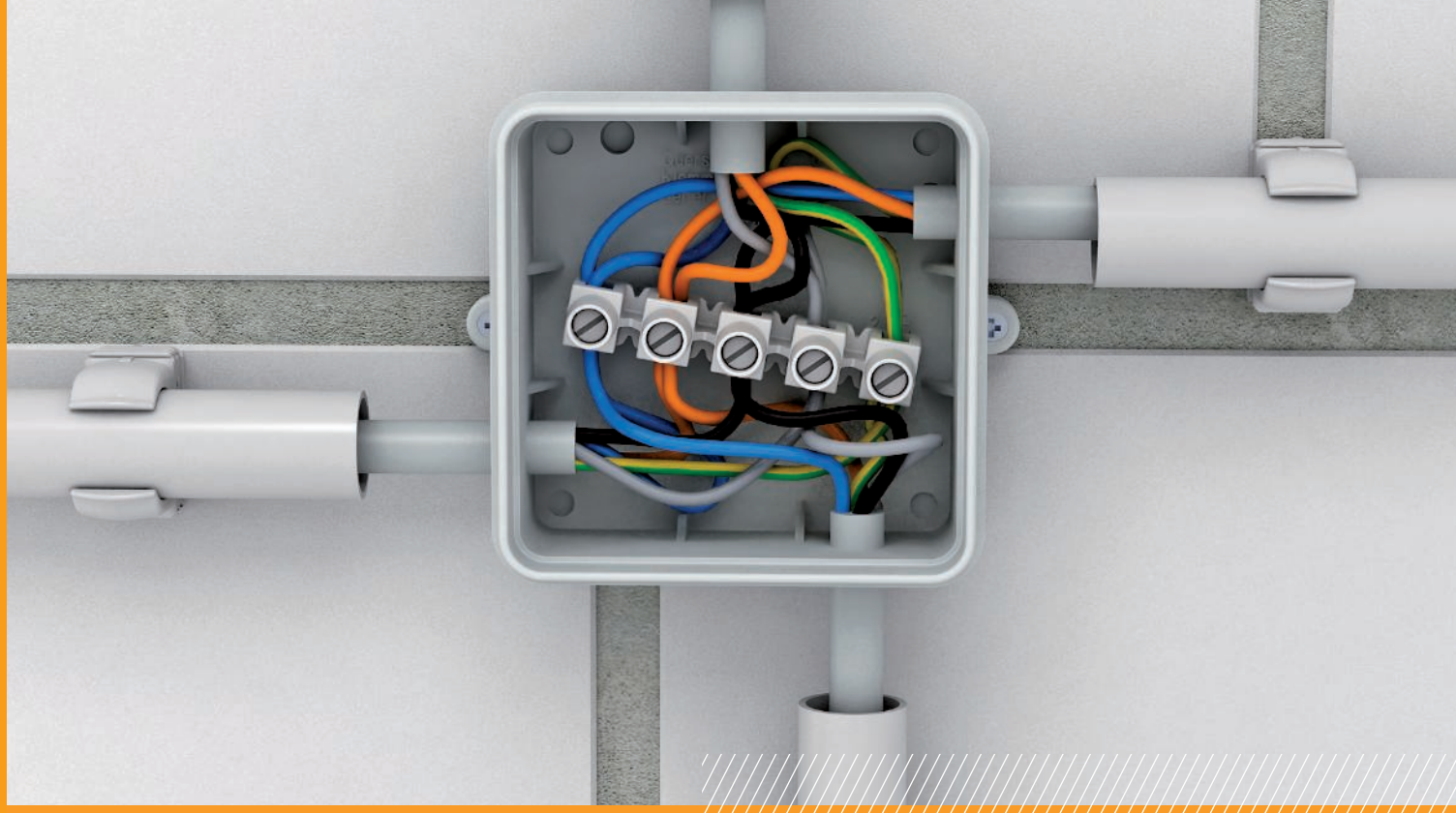

Distributors 552


Terminals 558


Cable glands 568


Pipe systems 606

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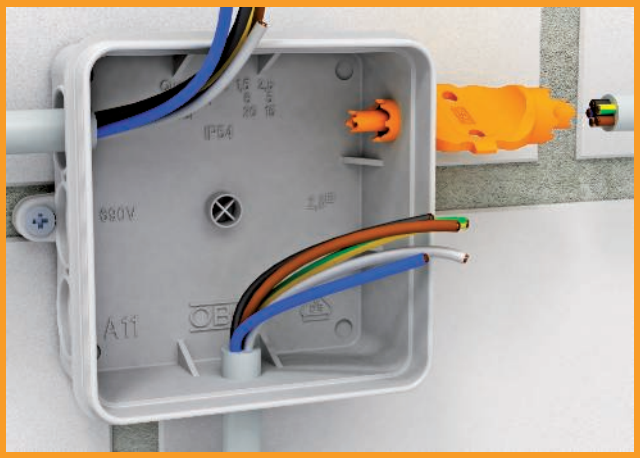


Junction boxes A series

Classic and still youthful: The well-known junction boxes of the A series have had a makeover. Halogen-free thermoplastic is just as much of a hallmark of the A series as a tight-fitting clamshell and pre-marked cable entries. A protection rating of IP55 and practical external fastenings round off the profile of the classic item.



- Halogen-free thermoplastic
- Sturdy external fastenings
- Quick mounting with snug-fitting clamshell
- Suitable for wet rooms, IP55



Pre-marked cable entry
The pre-marked cable entries can be opened with a knife or using the cut-out tool supplied.

Junction box A 6

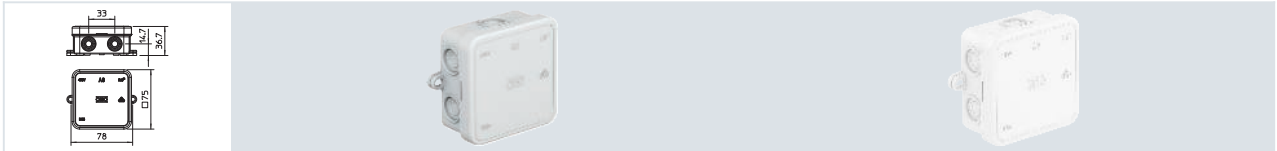


Type	A 6	A 6 HF RW
Colour	Light grey	Pure white
Dimension LxWxH mm	80x43x36	80x43x36
Clear internal dimensions mm	69x32x30	69x32x30
Pack Piece	10	10
Weight kg/100 pc.	2.560	2.560
Item no.	**2000001**	**2000005**

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 mm², 6 entries for cable diameter 5–14 mm
4 entries for cable diameter 5–9 mm.
Clamshell.
Dimensions: 80 x 43 x 36 mm
Clear internal dimensions: 69 x 32 x 30 mm
1 cut-out tool for every 10 boxes

Junction box A 8



Type	A 8	A 8 HF RW
Accessories	without terminal strip	without terminal strip
Colour	Light grey	Pure white
Dimension LxWxH mm	75x75x36,7	75x75x36,7
Clear internal dimensions mm	65x65x32	65x65x32
Pack Piece	10	10
Weight kg/100 pc.	3.649	5.140
Item no.	**2000016**	**2000075**

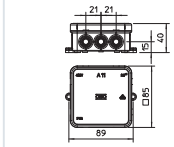
PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 mm², 7 entries for cable diameter 5–14 mm.
Clamshell.
Dimensions: 75 x 75 x 36.2 mm
Clear internal dimensions: 65 x 65 x 32 mm
1 cut-out tool for every 10 boxes

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Junction boxes, A series

Junction box A 11





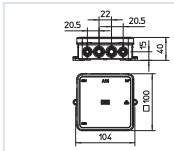


Type	A 11	A 11 HF RW
Accessories	without terminal strip	without terminal strip
Colour	Light grey	Pure white
Dimension LxWxH mm	85x85x40	85x85x40
Clear internal dimensions mm	75x75x35	75x75x35
Pack Piece	10	10
Weight kg/100 pc.	6.200	6.200
Item no.	**2000342**	**2000180**

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 mm², 12 entries for cable diameters of 5–14 mm.
Clamshell.
Dimensions: 85 x 85 x 40 mm
Clear internal dimensions: 75 x 75 x 35 mm
1 cut-out tool for every 10 boxes

Junction box A 14



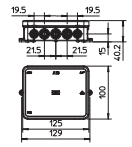


Type	A 14
Accessories	without terminal strip
Colour	Light grey
Dimension LxWxH mm	100x100x40
Clear internal dimensions mm	90x90x35
Pack Piece	10
Weight kg/100 pc.	5.855
Item no.	**2000378**

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 8 entries for cable diameter 5–14 mm
8 entries for cable diameter 5–11 mm.
Clamshell.
Dimensions: 100 x 100 x 40 mm
Clear internal dimensions: 90 x 90 x 35 mm
1 cut-out tool for every 10 boxes

Junction box A 18





Type	**A 18**
Accessories	without terminal strip
Colour	Light grey
Dimension LxWxH mm	125x100x40
Clear internal dimensions mm	115x90x35
Pack Piece	10
Weight kg/100 pc.	6.957
Item no.	**2000410**

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 10 entries for cable diameter 5–14 mm
8 entries for cable diameter 5–11 mm.
Clamshell.
Dimensions: 125 x 100 x 40 mm
Clear internal dimensions: 115 x 90 x 35 mm
1 cut-out tool for every 10 boxes

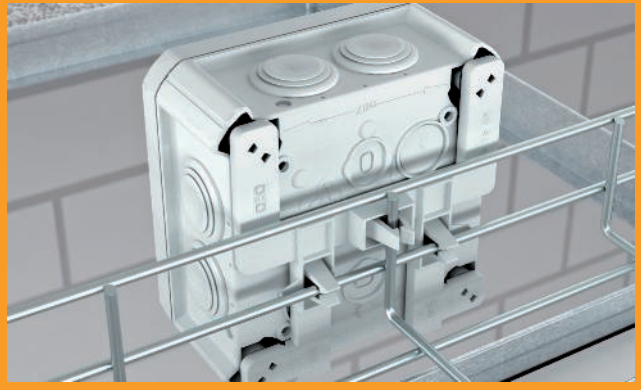
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Junction boxes T series

Intelligence is the natural characteristic of the T series: Our developers have used high-quality materials, sensible wall thicknesses and a stable construction to ensure that the T series can stand up to even the hardest conditions. All the boxes are made of halogen-free polypropylene and do not contain fluorine, chlorine or bromine.





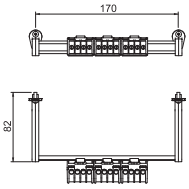
- Wide range: Seven sizes, six variants
- High impermeability of IP 66
- High impact resistance - IK 08
- White variants with UV protection for outdoor use
- Flame-resistant: Standard up to 650 °C, special models up to 960 °C
- Halogen-free: Without chlorine, fluorine or bromine

CE

Terminal strip set for X series

Type	Nominal cross-section mm²	Pole number	Number of screwless terminals per pole	Pack Piece	Weight kg/100 pc.	Item no.
KL-X10 06-16	6-16	5	4	1	17.600	**2008931**
KL-X16 06-16	6-16	5	4	1	14.500	**2008935**
KL-X25 16-35	16-35	5	4	1	37.500	**2008939**

Terminal strip set for the distribution boxes of the SDB series. The sets can be used to expand and equip empty distribution boxes of the SDB series.

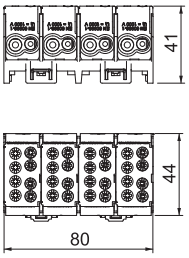




Main branch terminal, 4-pole

Type	Max. conductor cross-section mm²	Number of screwless terminals per pole	Pole number	Pack Piece	Weight kg/100 pc.	Item no.
HLAK 4-8x16	25	4	4	1	19.200	**2009032**

4-pin main terminal block, 2 x 16 mm² + 2 x 25 mm² conductor connection cross-sections per pin. With 2 screws per terminal for secure contact pressure. High-resistance quick-action fastening made of galvanised sheet steel for simple mounting on support rails. Terminal covers are available in the standard conductor colours.

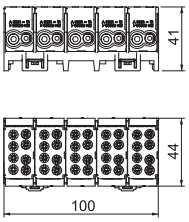




Main branch terminal, 5-pole

Type	Max. conductor cross-section mm²	Number of screwless terminals per pole	Pole number	Pack Piece	Weight kg/100 pc.	Item no.
HLAK 5-10x16	25	4	5	1	23.100	**2009036**

5-pin main terminal block, 2 x 16 mm² + 2 x 25 mm² conductor connection cross-sections per pin. With 2 screws per terminal for secure contact pressure. High-resistance quick-action fastening made of galvanised sheet steel for simple mounting on support rails. Terminal covers are available in the standard conductor colours.

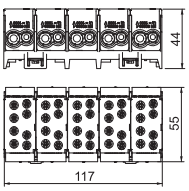




Main branch terminal, 5-pole

Type	Max. conductor cross-section mm²	Number of screwless terminals per pole	Pole number	Pack Piece	Weight kg/100 pc.	Item no.
HLAK 5-10x25	35	4	5	1	38.100	**2009038**

5-pin main terminal block, 2 x 35 mm² + 2 x 25 mm² conductor connection cross-sections per pin. With 2 screws per terminal for secure contact pressure. High-resistance quick-action fastening made of galvanised sheet steel for simple mounting on support rails. Terminal covers are available in the standard conductor colours.

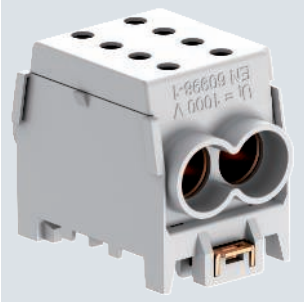


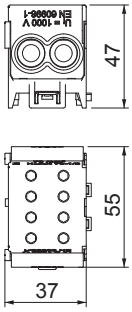


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Accessories, X series

Main branch terminal, 1-pole



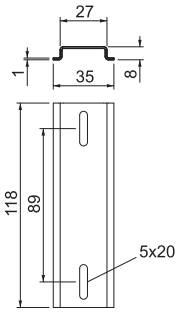


Type	Max. conductor cross-section mm²	Number of screwless terminals per pole	Pole number	Pack Piece	Weight kg/100 pc.	Item no.
HLAK 1-2x70 GR	70	4	1	1	11.600	**2009042**
HLAK 1-2x70 GRGN	50	4	1	1	11.600	**2009044**
HLAK 1-2x70 GRBL	50	4	1	1	11.600	**2009046**

1-pin main terminal block, 4 x 70 mm² conductor connection cross-sections per pin. With 2 screws per terminal for secure contact pressure. High-resistance quick-action fastening made of galvanised sheet steel for simple mounting on support rails.
Terminal covers are available in the standard conductor colours.

Hat profile rail set



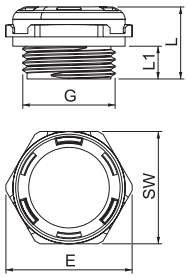


Type	Length mm	Width mm	Height mm		Pack Piece	Weight kg/100 pc.	Item no.
2069 X06 FS	118	35	8		1	4.300	**1115876**
2069 X10 FS	161	62	23		1	7.400	**1115879**
2069 X16 FS	211	62	23		1	9.200	**1115882**
2069 X25 FS	252	62	23		1	10.700	**1115887**

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

Pressure compensation element





Type	Thread	Protection rating	Colour		Pack Piece	Weight kg/100 pc.	Item no.
109 M20 LGR	M20 x 1,5	IP68	Light grey		1	0.538	**2034680**

The pressure compensation element, type 109 M20 LGR compensates for pressure differences in junction boxes, small distributors and connection sockets with an M20 opening and avoids the formation of condensation water in sealed housings. The polyamide pressure compensation element has an IP68/IP69 protection rating. This remains intact, even after the installation of the pressure compensation element. The pressure compensation element is suitable for use in industrial environments and in exterior areas.

TPE

IP 54 M

EDS plug-in seal

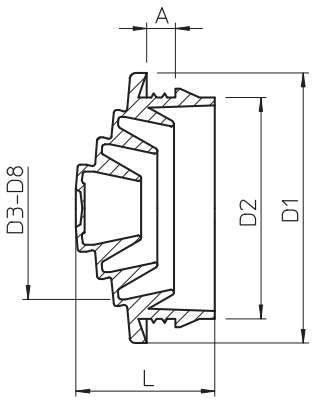
Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDS M20 SW	M20	0-17	Black	100	0.125	**2012340**
EDS M25 SW	M25	0-22	Black	100	0.193	**2012342**
EDS M32 SW	M32	0-28	Black	50	0.254	**2012344**

The push-in nipple can be cut back to suit the relevant cable diameter.



Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dim. D6 mm	Dim. D7 mm	Dim. D8 mm
EDS M20 SW	12.8	3.1	24.8	20.3	6	10	15	17	–	–
EDS M25 SW	14.5	3.1	29.5	25.3	6	10	15	20	22	–
EDS M32 SW	17.8	3.1	36.3	32.3	6	10	15	20	25	28

Dimensions

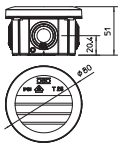


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Junction boxes, T series with plug-in seal

Junction box T 25, plug-in seal







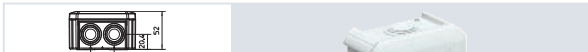


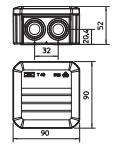
Type	T 25	T 25 RW
Colour	Light grey	Pure white
Entries	4 x M25	4 x M25
Dimension mm	Ø80x51	Ø80x51
Clear internal dimensions mm	Ø63x45	Ø63x45
Pack Piece	5	5
Weight kg/100 pc.	4.190	4.190
Item no.	**2007029**	**2007509**

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Round design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilised materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 40, plug-in seal









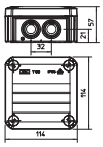


Type	T 40	T 40 RW	T 40 RO-LGR
Colour	Light grey	Pure white	Grey/red
Entries	7 x M25	7 x M25	7 x M25
Dimension LxWxH mm	90x90x52	90x90x52	90x90x52
Clear internal dimensions mm	77x77x46	77x77x46	77x77x46
Pack Piece	5	5	5
Weight kg/100 pc.	6.700	6.700	6.700
Item no.	**2007045**	**2007517**	**2007630**

PP Polypropylene

Junction box for the connection of cables indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside. With fixed clamping cover. Made from halogen-free, UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 60, plug-in seal





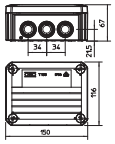


Type	T 60	T 60 RW
Colour	Light grey	Pure white
Entries	7 x M25	7 x M25
Dimension LxWxH mm	114x114x57	114x114x57
Clear internal dimensions mm	100x100x48	100x100x48
Pack Piece	5	5
Weight kg/100 pc.	12.300	12.300
Item no.	**2007061**	**2007525**

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 100, plug-in seal









Type	T 100	T 100 RW	T 100 M25-M32
Colour	Light grey	Pure white	Light grey
Entries	10 x M25	10 x M25	8 x M25 2 x M32
Dimension LxWxH mm	150x116x67	150x116x67	150x116x67
Clear internal dimensions mm	136x102x57	136x102x57	136x102x57
Pack Piece	1	1	1
Weight kg/100 pc.	16.500	16.270	16.300
Item no.	**2007077**	**2007533**	**2007081**

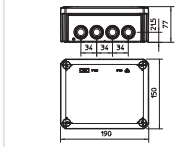
PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

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Junction boxes, T series with plug-in seal

Junction box T 160, plug-in seal



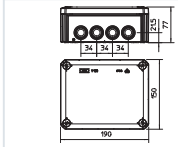



Type	T 160	T 160 RW
Colour	Light grey	Pure white
Entries	7 x M25 5 x M32	7 x M25 5 x M32
Dimension LxWxH mm	190x150x77	190x150x77
Clear internal dimensions mm	176x135x67	176x135x67
Pack Piece	1	1
Weight kg/100 pc.	30.000	30.000
Item no.	**2007093**	**2007541**

PP/GF Polypropylene, fibreglass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 160, with 10xM32 entries



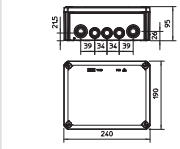


Type	T 160 M32
Colour	Light grey
Entries	7x M25 + 5x M32
Dimension LxWxH mm	190x150x77
Clear internal dimensions mm	176x135x67
Pack Piece	1
Weight kg/100 pc.	30.000
Item no.	**2007097**

PP/GF Polypropylene, fibreglass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 250, plug-in seal





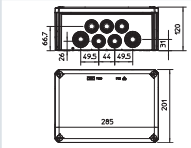


Type	T 250	T 250 RW
Colour	Light grey	Pure white
Entries	9 x M25 7 x M32	9 x M25 7 x M32
Dimension LxWxH mm	240x190x95	240x190x95
Clear internal dimensions mm	225x173x86	225x173x86
Pack Piece	1	1
Weight kg/100 pc.	50.000	50.000
Item no.	**2007109**	**2007554**

PP/GF Polypropylene, fibreglass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 350, plug-in seal







Type	T 350	T 350 RW
Colour	Light grey	Pure white
Entries	16 x M32 8 x M40	16 x M32 8 x M40
Dimension LxWxH mm	285x201x120	285x201x120
Clear internal dimensions mm	267x182x110	267x182x110
Pack Piece	1	1
Weight kg/100 pc.	63.000	63.000
Item no.	**2007125**	**2007568**

PP/GF Polypropylene, fibreglass reinforced

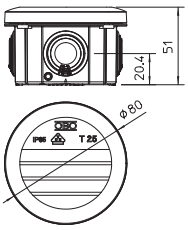
Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

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Junction boxes, T series with plug-in seal and terminal strip

Junction box T 25, plug-in seal, terminal strip



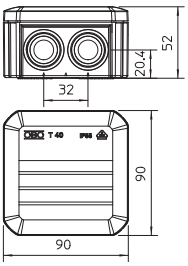


Type	Colour	Entries	Dimension mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 25 KL	Light grey	4 x M25	Ø80x51	Ø63x45	5	6.400	**2007430**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Round design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 40, plug-in seal, terminal strip



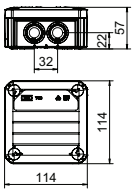


Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 40 KL	Light grey	7 x M25	90x90x52	77x77x46	5	8.900	**2007432**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside. With fixed clamping cover. Made from halogen-free, UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 60, plug-in seal, terminal strip





Type	Entries	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 KL	7 x M25	Light grey	114x114x57	100x100x48	5	16.700	**2007434**

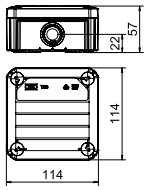
Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilised materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

PP

Junction box T 60, plug-in seal, terminal strip, cast resin

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 hars	Light grey	7 x M25	114x114x57	100x100x48	1	64.000	**2010007**

Set consisting of a T 60 junction box with terminal strip, casting resin and a pair of disposable gloves. 2-component casting resin in a mixing bag to protect the electrical installation against moisture, in accordance with the IP68 protection class, and mechanical loads.



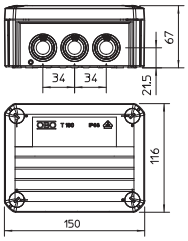


PP

Junction box T 100, plug-in seal, terminal strip

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 KL	Light grey	10 x M25	150x116x67	136x102x57	1	40.000	**2007436**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



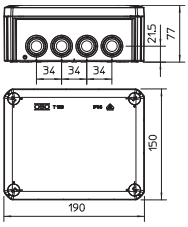


PP/ GF

Junction box T 160, plug-in seal

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 KL	Light grey	7 x M25 5 x M32	190x150x77	176x135x67	1	64.200	**2007440**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



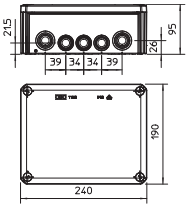


PP/ GF

Junction box T 250, plug-in seal, terminal strip

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 250 KL	Light grey	9 x M25 7 x M32	240x190x95	225x173x86	1	79.500	**2007444**

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



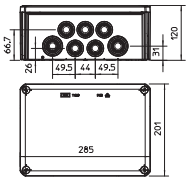


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Junction boxes, T series with plug-in seal and terminal strip

Junction box T 350, plug-in seal, terminal strip





Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 350 KL	Light grey	16 x M32 8 x M40	285x201x120	267x182x110		1	95.700	**2007448**

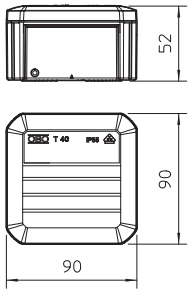
Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

PP

Junction box T 40, closed

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 40 OE	Light grey	90x90x52	77x77x46	5	6.300	2007223

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



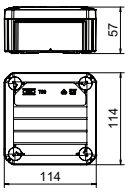


PP

Junction box T 60, closed

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 OE	Light grey	114x114x57	100x100x46	5	12.000	2007239

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102.



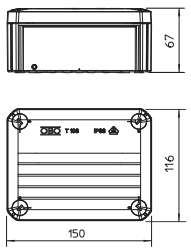


PP

Junction box T 100, closed

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 OE	Light grey	150x116x67	136x102x57	1	16.200	2007255

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



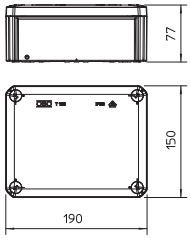


PP/ GF

Junction box T 160, closed

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 OE	Light grey	190x150x77	176x135x67	1	30.000	2007271

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.





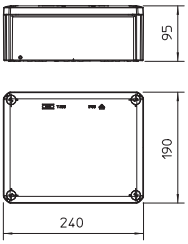
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Junction boxes, T series closed

Junction box T 250, closed

PP/GF





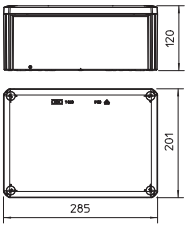
Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 250 OE	Light grey	240x190x95	225x173x86		1	48.300	**2007287**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 350, closed

PP/GF





Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 350 OE	Light grey	285x201x120	267x182x110		1	58.800	**2007303**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

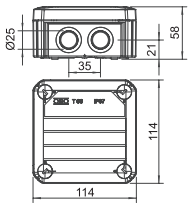
PP

CE 500 V | IP 67 | 6 mm² | 7 | M25 | IK 07 | 650°

Junction box T60, with knock-out entries

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 M25	Light grey	7 x Ø25	114x114x57	100x100x48	5	12.300	**2007926**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





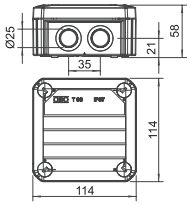
PP

CE 500 V | IP 67 | 6 mm² | 7 | M25 | IK 07 | 650°

Junction box T60, with knock-out entries

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 M25 RO-LGR	Grey/red	7 x Ø25	114x114x57	100x100x48	5	12.300	**2007927**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





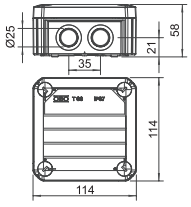
PP

CE 500 V | IP 67 | M20 | 6 mm² | 7 | IK 07 | 650°

Junction box T60, with knock-out entries

Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 M20	Light grey	7 x Ø20	114x114x57	100x100x48	5	12.100	**2007910**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with knock-out entries to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



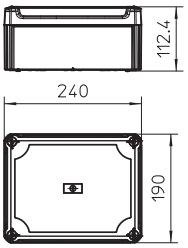


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Junction boxes, T series with raised cover, closed

Junction box T250, closed, elevated cover





Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 250 OE HD LGR	None	240x190x112	225x173x102	1	50.570	**2007736**

Closed junction box for the connection of cables in indoor and protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option of fastening inside and to mount via the corner domes. High cover with quick lock, sealable. Made from halogen-free, UV-stabilised materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

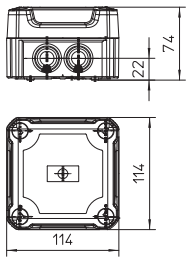
PP/PC

IP 66 | M25 | 7 | 500 V | 6 mm² | IK 07 | 650°

Junction box T60, with plug-in seal, transparent elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 60 HD TR	7xM25	114x114x74	100x100x65		1	17.180	**2007750**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





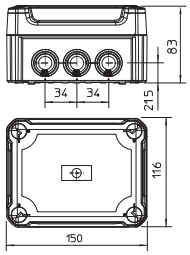
PP/PC

IP 66 | M25 | 10 | 500 V | 10 mm² | IK 07 | 650°

Junction box T100, with plug-in seal, transparent elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 100 HD TR	10xM25	150x116x83	136x102x74		1	22.550	**2007752**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.





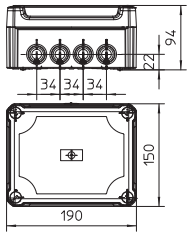
PP/PC

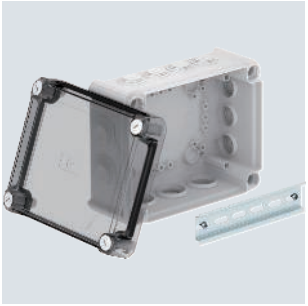
IP 66 | M25 | M32 | 12 | 500 V | 16 mm² | IK 05 | 650°

Junction box T160, with plug-in seal, transparent elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 160 HD TR	7xM25 5xM32	190x150x94	176x135x84		1	34.180	**2007754**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.





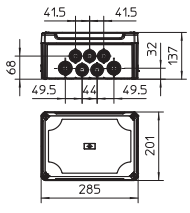
PP/PC

IP 66 | M32 | M40 | 24 | 500 V | 35 mm² | IK 05 | 650°

Junction box T350, with plug-in seal, transparent elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm		Pack Piece	Weight kg/100 pc.	Item no.
T 350 HD TR	16xM32 8xM40	285x201x137	267x182x127		1	72.760	**2007758**

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

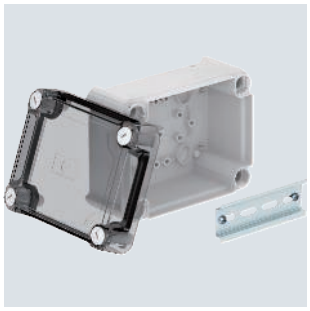


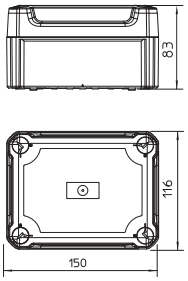


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Junction boxes, T series with raised transparent cover, closed

Junction box T100, closed, transparent elevated cover



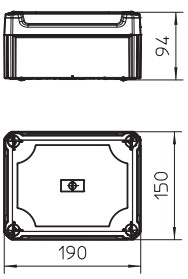


Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 OE HD TR	None	150x116x83	136x102x74	1	23.650	**2007772**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T160, closed, transparent elevated cover





Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 OE HD TR	None	190x150x94	176x135x84	1	33.920	**2007774**

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK04 according to DIN EN 50102.

X-TREME

The X series of the junction boxes



Robust and impact-resistant

For outdoor applications and the toughest conditions

Simple and flexible installation

Tested according to DIN EN 60670 Part 1 and 22

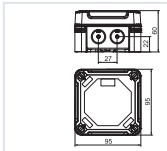
With the new X series, OBO Bettermann can offer a range of junction boxes and empty housings that can withstand even the toughest impacts. The use of special plastics based on high-quality polycarbonate allows the X series to meet the requirements for the highest level of impact resistance, achieving the protection rating of IK 09 (applies to the variants X01 - X16).

IK 09 T

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Junction boxes, X series with knock-out entries and plug-in seals

Junction box X 01









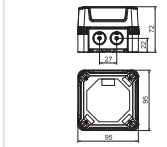


Type	X01 LGR	X01 LGR-TR	X01 SW	X01 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	7 x Ø20	7 x Ø20	7 x Ø20	7 x Ø20
Dimension LxWxH mm	95x95x60	95x95x60	95x95x60	95x95x60
Clear internal dimensions mm	85x85x45	85x85x45	85x85x45	85x85x45
Pack Piece	1	1	1	1
Weight kg/100 pc.	16.000	16.000	16.000	16.000
Item no.	**2005000**	**2005050**	**2005110**	**2005140**

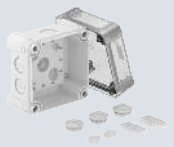
PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Junction box X 02









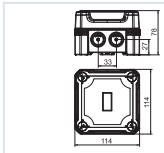


Type	X02 LGR	X02 LGR-TR	X02 SW	X02 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	7 x Ø20	7 x Ø20	7 x Ø20	7 x Ø20
Dimension LxWxH mm	95x95x72	95x95x72	95x95x72	95x95x72
Clear internal dimensions mm	85x85x57	85x85x57	85x85x57	85x85x57
Pack Piece	1	1	1	1
Weight kg/100 pc.	17.800	17.800	17.800	17.800
Item no.	**2005004**	**2005054**	**2005114**	**2005144**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Junction box X 04









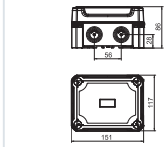


Type	X04 LGR	X04 LGR-TR	X04 SW	X04 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	7 x Ø20/25	7 x Ø20/25	7 x Ø20/25	7 x Ø20/25
Dimension LxWxH mm	114x114x78	114x114x78	114x114x78	114x114x78
Clear internal dimensions mm	102x102x60	102x102x60	102x102x60	102x102x60
Pack Piece	1	1	1	1
Weight kg/100 pc.	26.600	26.600	26.600	26.600
Item no.	**2005008**	**2005058**	**2005118**	**2005148**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Junction box X 06











Type	X06 LGR	X06 LGR-TR	X06 SW	X06 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	4 x Ø20/25, 4 x Ø20/25/32	4 x Ø20/25, 4 x Ø20/25/32	4 x Ø20/25, 4 x Ø20/25/32	4 x Ø20/25, 4 x Ø20/25/32
Dimension LxWxH mm	151x117x87	151x117x87	151x117x87	151x117x87
Clear internal dimensions mm	137x105x68	137x105x68	137x105x68	137x105x68
Pack Piece	1	1	1	1
Weight kg/100 pc.	33.500	33.500	33.500	33.500
Item no.	**2005012**	**2005062**	**2005122**	**2005152**

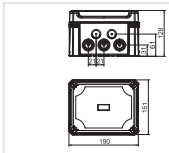
PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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Junction boxes, X series with knock-out entries and plug-in seals

Junction box X 10









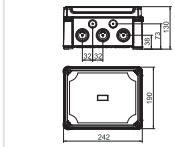


Type	X10 LGR	X10 LGR-TR	X10 SW	X10 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	10 x Ø20/25/32	10 x Ø20/25/32	10 x Ø20/25/32	10 x Ø20/25/32
Dimension LxWxH mm	191x151x126	191x151x126	191x151x126	191x151x126
Clear internal dimensions mm	177x137x110	177x137x110	177x137x110	177x137x110
Pack Piece	1	1	1	1
Weight kg/100 pc.	59.200	59.200	59.200	59.200
Item no.	**2005016**	**2005066**	**2005126**	**2005156**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Junction box X 16









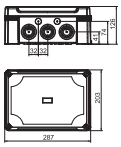


Type	X16 LGR	X16 LGR-TR	X16 SW	X16 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	10 x Ø25/32/40	10 x Ø25/32/40	10 x Ø25/32/40	10 x Ø25/32/40
Dimension LxWxH mm	241x191x126	241x191x126	241x191x126	241x191x126
Clear internal dimensions mm	227x177x110	227x177x110	227x177x110	227x177x110
Pack Piece	1	1	1	1
Weight kg/100 pc.	79.300	79.300	79.300	79.300
Item no.	**2005020**	**2005070**	**2005130**	**2005160**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Junction box X 25











Type	X25 LGR	X25 LGR-TR	X25 SW	X25 SW-RO
Colour	Light grey	Grey/transparent	Graphite black	Black/red
Entries	10 x Ø25/40/50	10 x Ø25/40/50	10 x Ø25/40/50	10 x Ø25/40/50
Dimension LxWxH mm	286x202x126	286x202x126	286x202x126	286x202x126
Clear internal dimensions mm	271x187x110	271x187x110	271x187x110	271x187x110
Pack Piece	1	1	1	1
Weight kg/100 pc.	96.500	96.500	96.500	96.500
Item no.	**2005024**	**2005074**	**2005134**	**2005164**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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Junction boxes, X series with knock-out entries and main cable junction terminal

Junction box X 06 with main terminal block

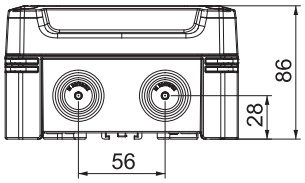


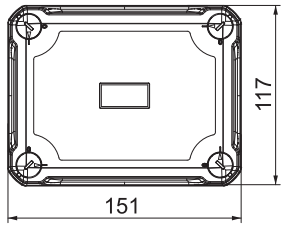
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X06 H25 GP4 LGR	Light grey	4 x Ø20/25, 4 x Ø20/25/32	1	56.800	**2005304**

Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including 4-pole main terminal block with 2 x 35 mm² + 2 x 16 mm² cable connection cross-sections per pole. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

In addition, a 4-pin main terminal block with 2 x 25 mm² + 2 x 16 mm² conductor connection cross-sections per pin is included.

Dimensions





Type	Dimension LxWxH mm	Clear internal dimensions mm
X06 H25 GP4 LGR	151x117x87	137x105x68

PC

CE IP 67 IK 09 M20 M25 M32 10 750 V 25 mm² 650° UV RESISTANT

Junction box X 10 with main terminal block

Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X10 H25 GNP5 LGR	Light grey	10 x Ø20/25/32	1	104.000	**2005308**

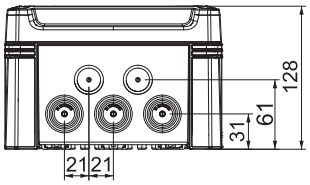


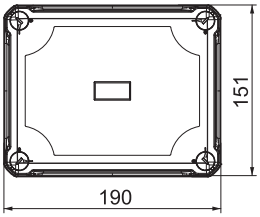
Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 5-pole main terminal block with 2 x 25 mm² + 2 x 16 mm² cable connection cross-sections per pole. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

In addition, a 5-pin main conductor branch terminal with 2 x 25 mm² + 2 x 16 mm² conductor connection cross-sections per pin is included.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X10 H25 GNP5 LGR	191x151x126	177x137x110

Dimensions





PC

CE IP 67 IK 09 M25 M32 M40 10 750 V 25 mm² 35 mm² 650° UV RESISTANT

Junction box X 16 with main terminal block

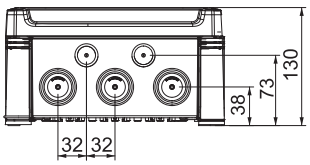
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X16 H25 GNP5 LGR	Light grey	10 x Ø25/32/40	1	111.000	**2005312**
X16 H35 GNP5 LGR	Light grey	10 x Ø25/32/40	1	125.000	**2005316**

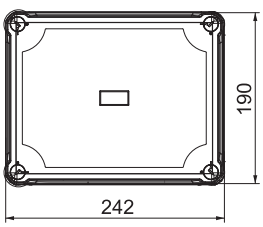


Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 5-pole main terminal block. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X16 H25 GNP5 LGR	241x191x126	227x177x110
X16 H35 GNP5 LGR	241x191x126	227x177x110

Dimensions





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Junction boxes, X series with knock-out entries and main cable junction terminal

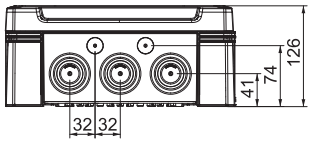
Junction box X 25 with main terminal block

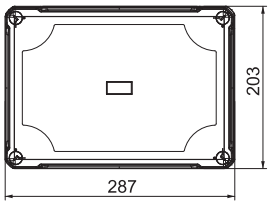


Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X25 H35 GNP5 LGR	Light grey	10 x Ø25/40/50	1	145.000	**2005320**
X25 H50 GNP5 LGR	Light grey	10 x Ø25/40/50	1	165.000	**2005324**

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including multipole main terminal block. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions





Type	Dimension LxWxH mm	Clear internal dimensions mm
X25 H35 GNP5 LGR	286x202x126	271x187x110
X25 H50 GNP5 LGR	286x202x126	271x187x110

PC

Junction box X 06 with hat profile rail

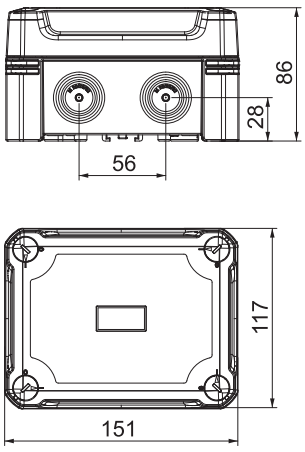
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X06 R LGR-TR	Grey/transparent	4 x Ø20/25, 4 x Ø20/25/32	1	37.600	**2005092**



Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Transparent cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail type 2069.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X06 R LGR-TR	151x117x87	137x105x68

Dimensions



PC

Junction box X 10 with hat profile rail

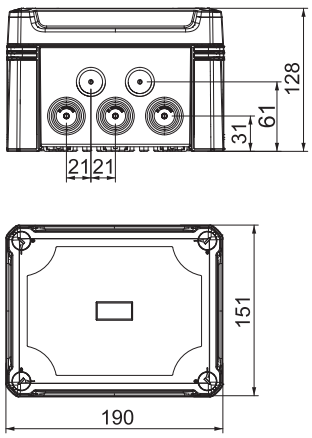
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X10 R LGR-TR	Grey/transparent	10 x Ø20/25/32	1	65.600	**2005096**



Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Transparent cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail type 2069.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.
With transparent cover and hat profile rail, type 2069, with fastening set.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X10 R LGR-TR	191x151x126	177x137x110

Dimensions



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Junction boxes, X series with knock-out entries and hat profile rail

Junction box X 16 with hat profile rail

PC

CE IP 67 IK 09 M25 M32 M40 10 16 mm² 750 V 650° UV RESISTANT

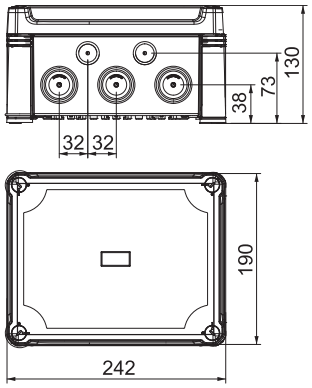


Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X16 R LGR-TR	Grey/transparent	10 x Ø25/32/40	1	87.300	**2005100**

Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Transparent cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail type 2069.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

With transparent cover and hat profile rail, type 2069, with fastening set.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X16 R LGR-TR	241x191x126	227x177x110

PC

CE PC RoHS conform IP 67 IK 08 M25 M40 M50
10 25 mm² 750 V 650° UV RESISTANT halogen free 11

Junction box X 25 with hat profile rail

Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X25 R LGR-TR	Grey/transparent	10 x Ø25/40/50		1	107.000	**2005104**

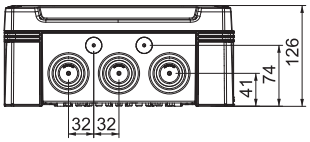


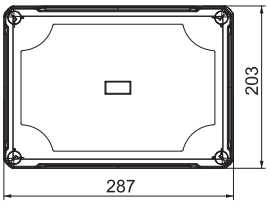
Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Transparent cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail type 2069.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

With transparent cover and hat profile rail, type 2069, with fastening set.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X25 R LGR-TR	286x202x126	271x187x110

Dimensions



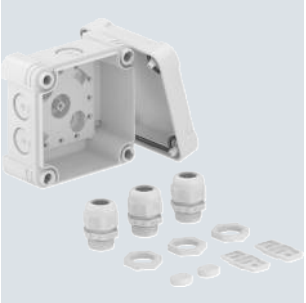


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Junction boxes, X series with knock-out entries and cable glands

Junction box X 01 with cable gland

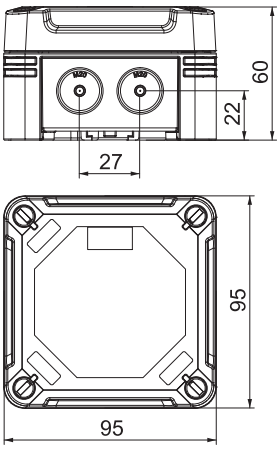
PC



Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X01 G M20 LGR	Light grey	7 x Ø20		1	19.000	**2005030**

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X01 G M20 LGR	95x95x60	85x85x45

PC

Junction box X 02 with cable gland

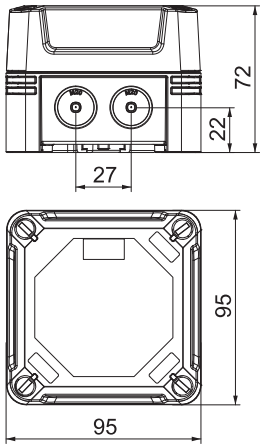
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X02 G M20 LGR	Light grey	7 x Ø20	1	21.500	**2005032**

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X02 G M20 LGR	95x95x72	85x85x57

Dimensions



PC

Junction box X 04 with cable gland

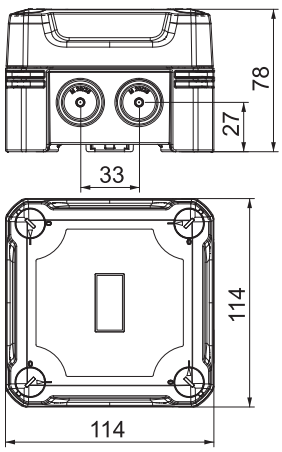
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X04 G M25 LGR	Light grey	7 x Ø20/25	1	31.400	**2005034**

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 3 cable glands V-TEC M25 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X04 G M25 LGR	114x114x78	102x102x60

Dimensions



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Junction boxes, X series with knock-out entries and terminal strip

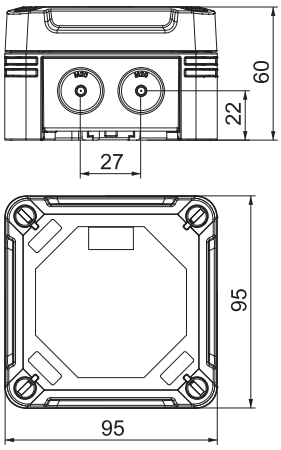
Junction box X 01 with terminal strip



Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X01 T LGR	Light grey	7 x Ø20	1	17.500	**2005190**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 5-pole.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions

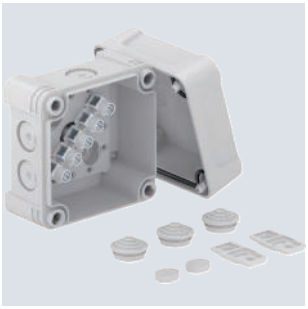


Type	Dimension LxWxH mm	Clear internal dimensions mm
X01 T LGR	95x95x60	85x85x45

PC

Junction box X 02 with terminal strip

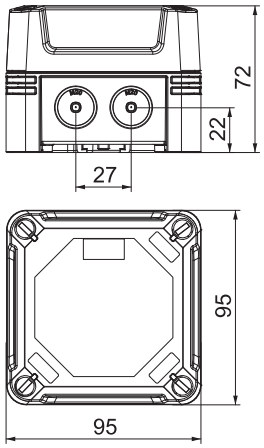
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X02 T LGR	Light grey	7 x Ø20	1	19.300	**2005194**



Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 5-pole.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X02 T LGR	95x95x72	85x85x57

Dimensions



PC

Junction box X 04 with terminal strip

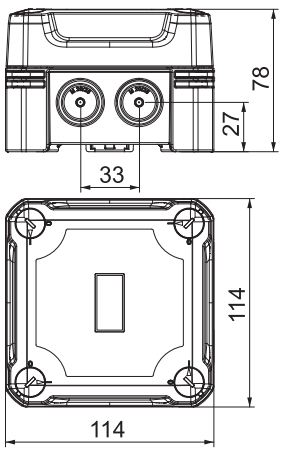
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X04 T LGR	Light grey	7 x Ø20/25	1	31.600	**2005198**



Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 5-pole.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X04 T LGR	114x114x78	102x102x60

Dimensions



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Junction boxes, X series with knock-out entries and terminal strip

Junction box X 06 with terminal strip

PC

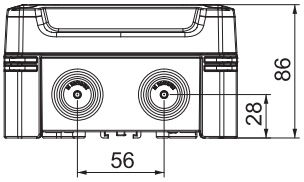
CE IP 67 IK 09 M20 M25 8 6 mm² 750 V M32 650° UV RESISTANT

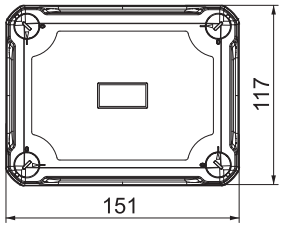


Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X06 T LGR	Light grey	4 x Ø20/25, 4 x Ø20/25/32	1	38.000	**2005202**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 5-pole.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions





Type	Dimension LxWxH mm	Clear internal dimensions mm
X06 T LGR	151x117x87	137x105x68

PC

Junction box X 10 with terminal strip

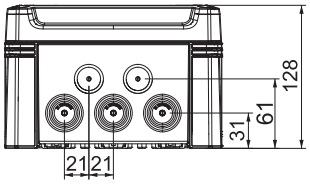
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X10 T LGR	Light grey	10 x Ø20/25/32	1	72.000	**2005206**

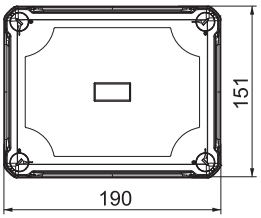
Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 5 terminal strips of 4 terminals each.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X10 T LGR	191x151x126	177x137x110

Dimensions





PC

Junction box X 16 with terminal strip

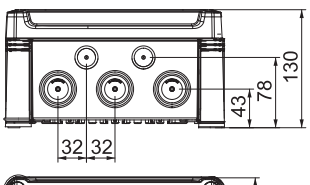
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X16 T LGR	Light grey	10 x Ø25/32/40	1	97.500	**2005210**

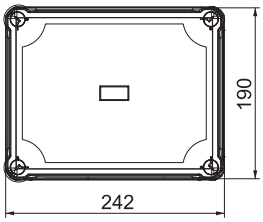
Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. With terminal.
With 5 terminal strips of 4 terminals each.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X16 T LGR	241x191x126	227x177x110

Dimensions





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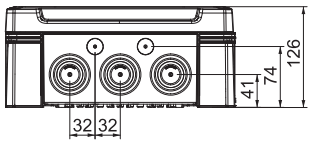
Junction boxes, X series with knock-out entries and terminal strip

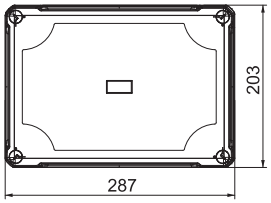
Junction box X 25 with terminal strip

Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X25 T LGR	Light grey	10 x Ø25/40/50	1	130.000	**2005214**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 5 terminal strips of 4 terminals each.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions





Type	Dimension LxWxH mm	Clear internal dimensions mm
X25 T LGR	286x202x126	271x187x110

PC

CE IP 67 IK 09 M20 7 1,5 mm² 750 V 650°

UV RESISTANT

Junction box X 01 with cable gland and terminal strip

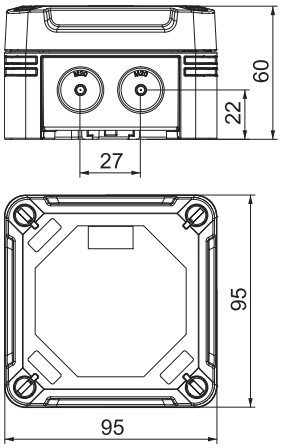
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X01 T G M20 LGR	Light grey	7 x Ø20	1	20.500	**2005220**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.



Type	Dimension LxWxH mm	Clear internal dimensions mm
X01 T G M20 LGR	95x95x60	85x85x45

Dimensions



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Junction boxes, X series with knock-out entries, cable glands and terminal strip

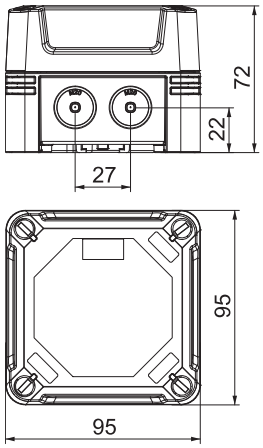
Junction box X 02 with cable gland and terminal strip



Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X02 T G M20 LGR	Light grey	7 x Ø20		1	23.000	**2005222**

Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 3 cable glands V-TEC M20 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X02 T G M20 LGR	95x95x72	85x85x57

PC

CE IP 67 IK 09 M20 M25 7 4 mm² 750 V 650° UV RESISTANT

Junction box X 04 with cable glands and terminal strip

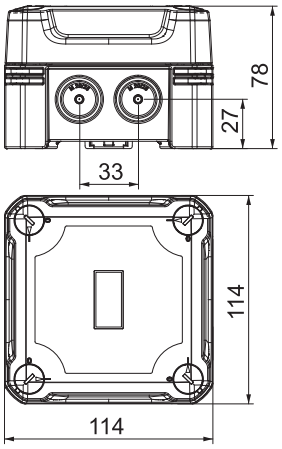
Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X04 T G M25 LGR	Light grey	7 x Ø20/25		1	36.700	**2005224**



Junction box with terminal strip for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 3 cable glands V-TEC M25 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X04 T G M25 LGR	114x114x78	102x102x60

Dimensions



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Junction boxes, X series with knock-out entries, cable glands and terminal strip

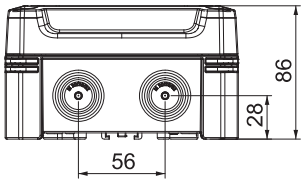
Junction box X 06 with cable glands and terminal strip

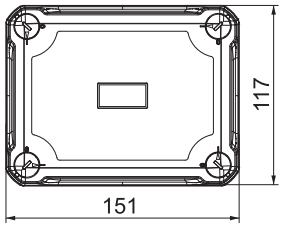


Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X06 T G M25 LGR	Light grey	4 x Ø20/25, 4 x Ø20/25/32	1	38.000	**2005226**

Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Including terminal strip, 3 cable glands V-TEC M25 and 3 locknuts.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions





Type	Dimension LxWxH mm	Clear internal dimensions mm
X06 T G M25 LGR	151x117x87	137x105x68

PC

Junction box X 01 with cable gland and plug-in terminals

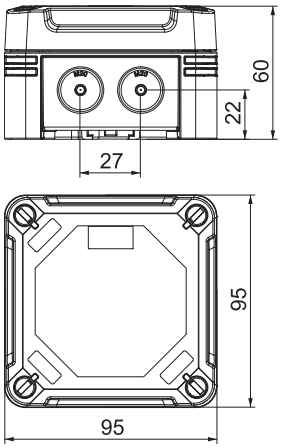
Type	Colour	Entries		Pack Piece	Weight kg/100 pc.	Item no.
X01 UT G LGR	Light grey	7 x Ø20		1	20.000	**2005240**



Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 3 universal screwless terminals (5-pole), 3 cable glands V-TEC M20 and 3 locknuts. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X01 UT G LGR	95x95x60	85x85x45

Dimensions



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Junction boxes, X series with knock-out entries, cable glands and screw-less terminals

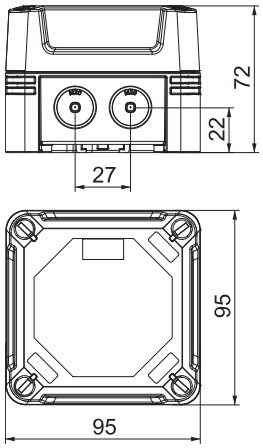
Junction box X 02 with cable gland and plug-in terminals



Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X02 UT G LGR	Light grey	7 x Ø20	1	23.000	**2005244**

Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 3 universal screwless terminals (5-pole), 3 cable glands V-TEC M20 and 3 locknuts. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Dimensions



Type	Dimension LxWxH mm	Clear internal dimensions mm
X02 UT G LGR	95x95x72	85x85x57

PC

CE IP 67 IK 09 M20 M25 7 4 mm² 750 V 650° UV RESISTANT

Junction box X 04 with cable glands and plug-in terminals

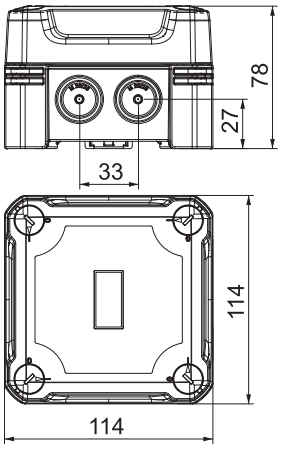
Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X04 UT G LGR	Light grey	7 x Ø20/25	1	33.500	**2005248**



Junction box with terminal for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With 3 universal screwless terminals (5-pole), 3 cable glands V-TEC M20 and 3 locknuts. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Type	Dimension LxWxH mm	Clear internal dimensions mm
X04 UT G LGR	114x114x78	102x102x60

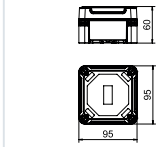
Dimensions



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Empty housing, X series without entries

Empty housing X 01





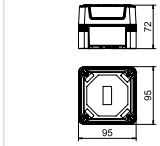


Type	X01C LGR	X01C LGR-TR	X01C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	95x95x60	95x95x60	95x95x60
Clear internal dimensions mm	85x85x45	85x85x45	85x85x45
Pack Piece	1	1	1
Weight kg/100 pc.	15.600	15.600	15.600
Item no.	**2005450**	**2005520**	**2005590**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 02





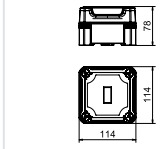


Type	X02C LGR	X02C LGR-TR	X02C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	95x95x72	95x95x72	95x95x72
Clear internal dimensions mm	85x85x57	85x85x57	85x85x57
Pack Piece	1	1	1
Weight kg/100 pc.	17.500	17.500	17.500
Item no.	**2005454**	**2005524**	**2005594**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 04







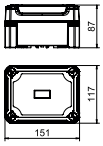


Type	X04C LGR	X04C LGR-TR	X04C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	114x114x78	114x114x78	114x114x78
Clear internal dimensions mm	102x102x60	102x102x60	102x102x60
Pack Piece	1	1	1
Weight kg/100 pc.	26.300	26.300	26.300
Item no.	**2005458**	**2005528**	**2005598**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 06









Type	X06C LGR	X06C LGR-TR	X06C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	151x117x87	151x117x87	151x117x87
Clear internal dimensions mm	137x105x68	137x105x68	137x105x68
Pack Piece	1	1	1
Weight kg/100 pc.	33.100	33.100	33.500
Item no.	**2005462**	**2005532**	**2005602**

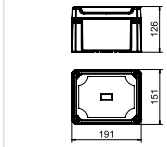
PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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Empty housing, X series without entries

Empty housing X 10







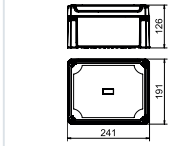


Type	X10C LGR	X10C LGR-TR	X10C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	191x151x126	191x151x126	191x151x126
Clear internal dimensions mm	177x137x110	177x137x110	177x137x110
Pack Piece	1	1	1
Weight kg/100 pc.	58.500	85.500	58.500
Item no.	**2005466**	**2005536**	**2005606**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 16







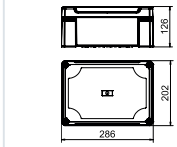


Type	X16C LGR	X16C LGR-TR	X16C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	241x191x126	241x191x126	241x191x126
Clear internal dimensions mm	227x177x110	227x177x110	227x177x110
Pack Piece	1	1	1
Weight kg/100 pc.	78.400	78.400	78.400
Item no.	**2005470**	**2005540**	**2005610**

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 25









Type	X25C LGR	X25C LGR-TR	X25C SW
Colour	Light grey	Grey/transparent	Graphite black
Dimension LxWxH mm	286x202x126	286x202x126	286x202x126
Clear internal dimensions mm	271x187x110	271x187x110	271x187x110
Pack Piece	1	1	1
Weight kg/100 pc.	95.000	95.000	95.000
Item no.	**2005474**	**2005544**	**2005614**

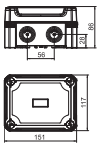
PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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Empty housing, X series without entries with hat profile rail

Empty housing X 06 with hat profile rail





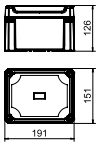


Type	X06C R LGR	X06C R LGR-TR
Colour	Light grey	Grey/transparent
Dimension LxWxH mm	151x117x87	151x117x87
Clear internal dimensions mm	137x105x68	137x105x68
Pack Piece	1	1
Weight kg/100 pc.	37.600	37.600
Item no.	**2005490**	**2005560**

PC Polycarbonate

Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail, type 2069, and fastening set.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 10 with hat profile rail





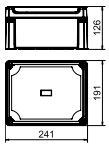


Type	X10C R LGR	X10C R LGR-TR
Colour	Light grey	Grey/transparent
Dimension LxWxH mm	191x151x126	191x151x126
Clear internal dimensions mm	177x137x110	177x137x110
Pack Piece	1	1
Weight kg/100 pc.	65.600	65.600
Item no.	**2005494**	**2005564**

PC Polycarbonate

Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail, type 2069, and fastening set.
Junction box according to DIN EN 60670. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 16 with hat profile rail





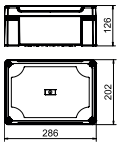


Type	X16C R LGR	X16C R LGR-TR
Colour	Light grey	Grey/transparent
Dimension LxWxH mm	241x191x126	241x191x126
Clear internal dimensions mm	227x177x110	227x177x110
Pack Piece	1	1
Weight kg/100 pc.	87.300	87.300
Item no.	**2005498**	**2005568**

PC Polycarbonate

Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail 2069 and fastening set.
Junction box according to DIN EN 60670. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

Empty housing X 25 with hat profile rail





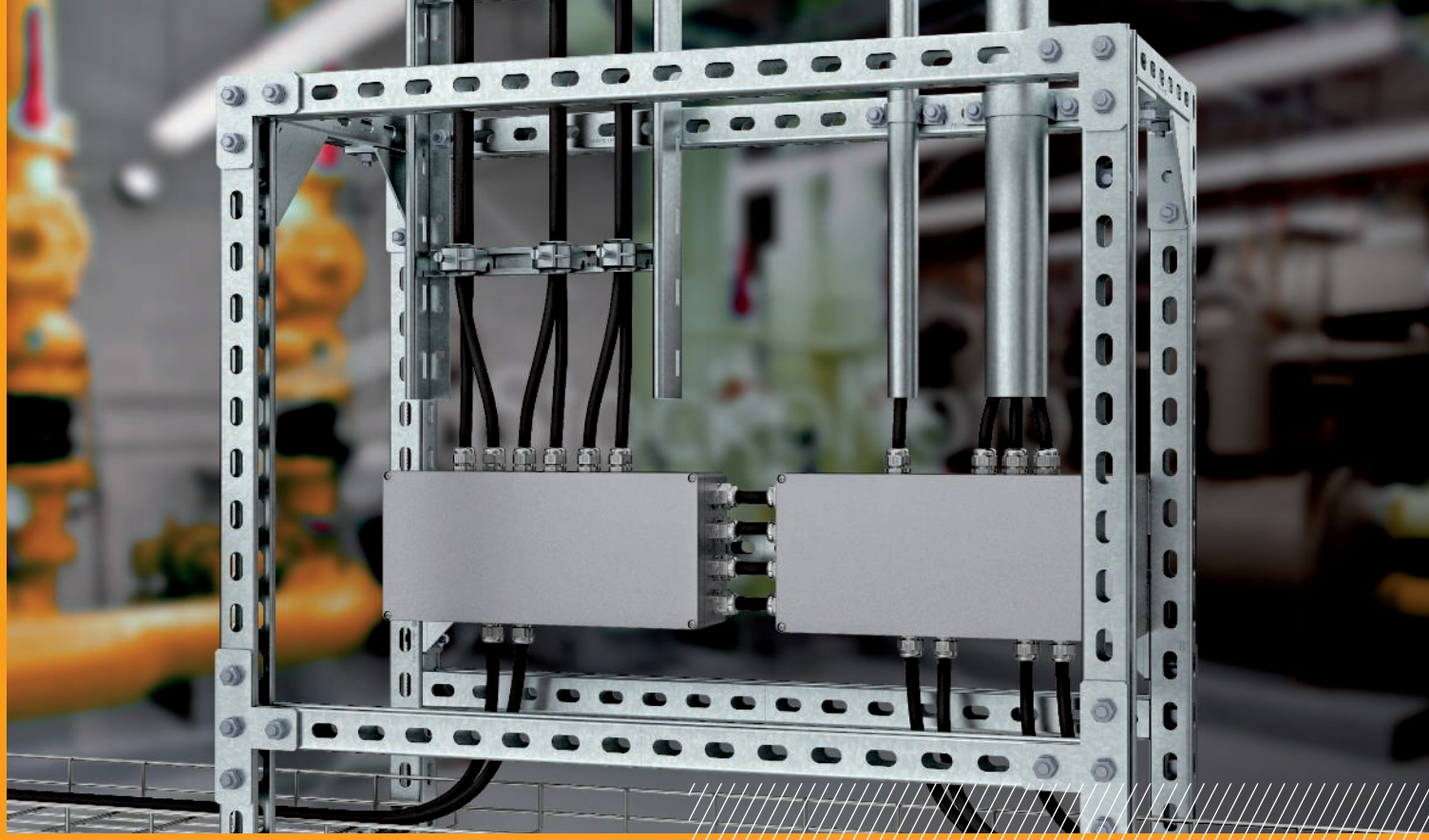


Type	X25C R LGR	X25C R LGR-TR
Colour	Light grey	Grey/transparent
Dimension LxWxH mm	286x202x126	286x202x126
Clear internal dimensions mm	271x187x110	271x187x110
Pack Piece	1	1
Weight kg/100 pc.	107.000	107.000
Item no.	**2005502**	**2005572**

PC Polycarbonate

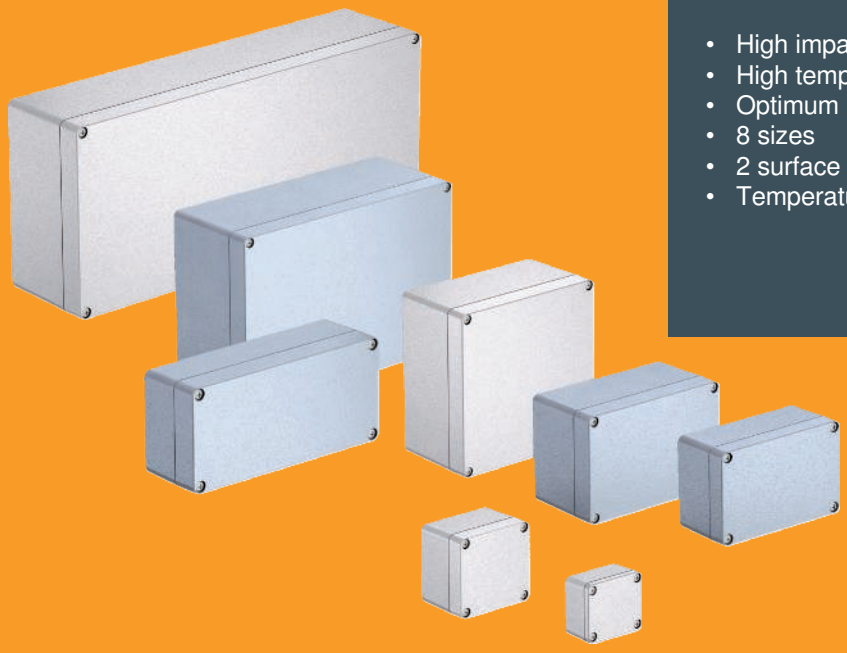
Junction box with hat profile rail for the connection of cables and lines indoors and in outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.
With hat profile rail, type 2069, and fastening set.
Junction box according to DIN EN 60670. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

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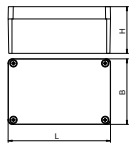
Junction boxes Mx series

Our aluminium empty housings were designed for use under the toughest conditions and provide optimum protection of the installation. The metal housing of the Mx series withstands extremely high and low temperatures, as well as large temperature differences. High impact loads in an industrial surrounding, vandalism or rock falls are not able to harm the housing. Furthermore, the Mx series offers perfect EMC protection and is ideally secured against the entry of dust and water in line with protection rating IP66.



- High impact resistance
- High temperature resistance
- Optimum EMC protection
- 8 sizes
- 2 surface variants
- Temperature range: –40 to 125 °C

Aluminium empty housing Mx06, paintable











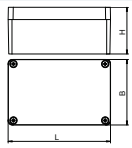
Type	Mx 060503 CR3	Mx 080705 CR3	Mx 090603 CR3	Mx 120805 CR3
Version	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws
Dimension LxWxH mm	64x58x34	80x75x57	98x64x34	125x80x57
Clear internal dimensions mm	56,5x50,5x31,5	71x65,5x52,5	91x54x29	115,5x70,5x51
Pack Piece	1	1	1	1
Weight kg/100 pc.	19.200	36.400	25.000	50.000
Item no.	**2011378**	**2011381**	**2011384**	**2011386**

AlG Die-cast aluminium
Cr3 Chrome III coating

Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent features make it most suitable for extreme demands in all different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The series' properties protect the electrical installation when under extreme strain. The products withstand both great cold and heat as well as impacts or kicks on roads, railways or in tunnels.
With a protection class of up to IP66, they are optimally protected against the intrusion of water. The aluminium is of course UV-resistant and halogen-free. The cover seal is made from polyurethane.
The aluminium housings are chrome 3-coated and are delivered with a cover including stainless steel screws, a seal and 2 or 4 earthing screws.
The chrome 3 surface provides a good contact when using metal fittings and can easily be painted or powder-coated.

Temperature: -40°C to +125°C

Aluminium empty housing Mx16, paintable













Type	Mx 161008 CR3	Mx 161609 CR3	Mx 221209 CR3	Mx 261609 CR3	Mx 361609 CR3
Version	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws
Dimension LxWxH mm	160x100x81	150x100x91	220x120x90	260x160x90	360x160x91
Clear internal dimensions mm	140,5x90x74,5	140,5x90x74,5	210x109x81	249x149x82	317,5x149x82
Pack Piece	1	1	1	1	1
Weight kg/100 pc.	90.000	170.000	168.000	230.000	320.000
Item no.	**2011389**	**2011392**	**2011394**	**2011396**	**2011398**

AlG Die-cast aluminium
Cr3 Chrome III coating

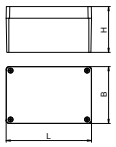
Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent features make it most suitable for extreme demands in all different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The series' properties protect the electrical installation when under extreme strain. The products withstand both great cold and heat as well as impacts or kicks on roads, railways or in tunnels.
With a protection class of up to IP66, they are optimally protected against the intrusion of water. The aluminium is of course UV-resistant and halogen-free. The cover seal is made from polyurethane.
The aluminium housings are chrome 3-coated and are delivered with a cover including stainless steel screws, a seal and 2 or 4 earthing screws.
The chrome 3 surface provides a good contact when using metal fittings and can easily be painted or powder-coated.

Temperature: -40°C to +125°C

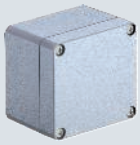
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

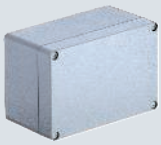
Mx series junction boxes, aluminium, powder-coated

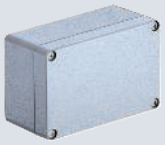
Aluminium empty housing Mx06, powder coated











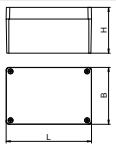
Type	Mx 060503 SGR	Mx 080705 SGR	Mx 120805 SGR	Mx 161008 SGR
Version	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws
Colour	Silver grey	Silver grey	Silver grey	Silver grey
Dimension LxWxH mm	64x58x34	80x75x57	125x80x57	160x100x81
Clear internal dimensions mm	56.5x50.5x31.5	71x65.6x52.5	115.5x70.5x51	117x90x74.5
Pack Piece	1	1	1	1
Weight kg/100 pc.	19.200	36.400	50.000	90.000
Item no.	**2011304**	**2011308**	**2011312**	**2011316**

AIG Die-cast aluminium
P Powder-coated

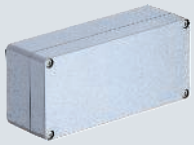
Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent mechanical and thermal features make it most suitable for extreme demands in many different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The products protect the electrical installation against high-grade strains. They withstand both extreme cold and heat as well as vandalism and impact on roads, railways or in tunnels.
With an IP66 protection class, they are optimally protected against the intrusion of dust and water.
The aluminium housings are powder-coated (RAL 7001) and are delivered with a cover including stainless steel screws, a seal and two or four earthing screws.

Temperature: -40°C to +125°C

Aluminium empty housing Mx16, powder coated







Type	Mx 161609 SGR	Mx 170805 SGR
Version	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws
Colour	Silver grey	Silver grey
Dimension LxWxH mm	160x160x90	175x80x57
Clear internal dimensions mm	149x149x84.5	165x70x51
Pack Piece	1	1
Weight kg/100 pc.	170.000	66.000
Item no.	**2011320**	**2011324**

AIG Die-cast aluminium
P Powder-coated

Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent mechanical and thermal features make it most suitable for extreme demands in many different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The products protect the electrical installation against high-grade strains. They withstand both extreme cold and heat as well as vandalism and impact on roads, railways or in tunnels.
With an IP66 protection class, they are optimally protected against the intrusion of dust and water.
The aluminium housings are powder-coated (RAL 7001) and are delivered with a cover including stainless steel screws, a seal and two or four earthing screws.

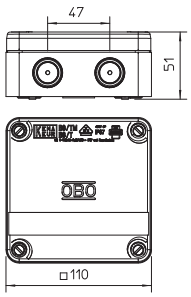
Temperature: -40°C to +125°C

PP

Junction box B 9/T, with perforation membrane

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Version	Pack Piece	Weight kg/100 pc.	Item no.
B 9 T M	Light grey	110x110x51	98x98x40	Empty	5	13.100	2001853

The B9/T... wet-room junction box comprises two different halogen-free plastic components, 2 additional entries in base with push-through membrane (for cable diameter up to 15 mm)
with perforation membrane (for cable diameters up to 15 mm) in the floor area.
Where cable glands are used (giving additional strain relief) there is no need to remove the membrane (this saves time). Protection rating IP67 with perforation membrane and with cable gland without the removal of the perforation membrane.
Nominal voltage 400 V; nominal cross-section 4 - 6 mm²
The cover is secured with 4 pre-fitted, captured quick cover fastenings (180°) and can be sealed.
The fastening holes are additionally moulded with a soft plastic component, for a 5 mm bolt diameter (75 mm spacing). Clear internal dimensions 98x98x40



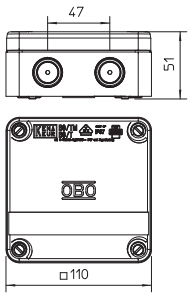


PP

Junction box B 9/T, with perforation membrane

Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Version	Pack Piece	Weight kg/100 pc.	Item no.
B 9 T	Light grey	110x110x51	98x98x40	Empty	5	20.400	2001810

B9/T...: Comprises 2 halogen-free plastics components, 8 threaded entries (PG16) with push-through membrane (for cable diameter up to 15 mm)
including one in base. Where cable glands are used (giving additional strain relief) there is no need to remove the membrane (this saves time).
Protection IP67. Rated voltage 400 V; Nominal cross section 4 - 6 mm². The lid is secured with 4 pre-fitted rapid fixings (180°). The fixing holes are additionally moulded with a soft plastics component for screw ø 5 mm (spacing 75 mm).
Clear internal dimensions: 98x98x40



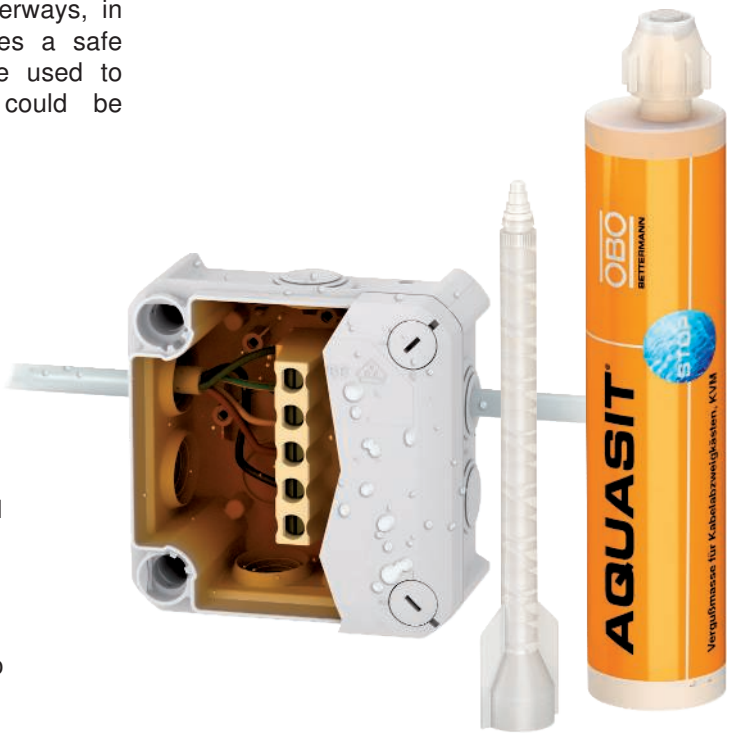


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Aquasit cold casting compound

provides flexible and simple protection of electrical installations against moisture

OBO Aquasit cold casting compound is the ideal solution for electrical installations in particularly damp environments. Whether for connections in the garden, by waterways, in laundries or in a pump well – Aquasit ensures a safe electrical installation anywhere. Aquasit can be used to protect those electrical installations, which could be damaged by extreme or continuous moisture.



Overview of product description

- Protection rating: IP68 at 1.8 bar/1000 h
- Rated voltage: 400 V
- Penetration resistance: >20 kv/mm to VDE 0291 Part 2
- Operating temperature: -40 to +90 °C
- Processing temperature: 0 to +40 °C
- Halogen-free, silicon-free, isocyanite-free
- Environmentally friendly and without the need to be labelled







The application is simple: For smaller junction boxes, Aquasit is cast tidily using a standard cartridge pistol, whilst Aquasit for larger boxes can be processed in appropriate, practical mixing bags.

The transparent, amber-coloured cold casting compound, based on hydrocarbon resins, hardens to a soft elastic state, so that a voltage test with test pins is then possible. As Aquasit is "self-healing", i.e the resulting test tunnel closes itself again fully, the protection rating of IP68 remains intact. Aquasit can also be removed easily, meaning that retroinstallation and regular testing of the installation are child's play.



Protects electrical installations against extreme or persistent moisture



Whether a laundry or a garden pond – Aquasit keeps things shut and provides protection.

Aquasit material consumption

Junction box filling

T Series	ml per unit*	PU*	
T25	80 ml	1	
T40	250 ml	1	
T60	410 ml	1	M
T60 HD	590 ml	1	L
T 100	720 ml	1	L
T 100 HD	770 ml	1	L

T Series	ml per unit*	PU*	
T160	1540 ml	1	XL
T160 HD	1930 ml	2	XL
T250	3170 ml	2	XL
T250 HD	3310 ml	2	XL
T350	5200 ml	4	XL
T350 HD	6830 ml	5	XL

*Gross box volume without equipment
Smallest possible packaging unit for complete filling of the complete junction box. Please refer to the product brochure for the technical dimensions.





Aquasit cold casting compound, cartridge
250 ml | Art. no. 2363010



Aquasit cold casting compound, mixing bag
400 ml | M | Art. no. 2363030
800 ml | L | Art. no. 2363032
1600 ml | XL | Art. no. 2363034



Junction box set
T 40 KVM
Art. no. 2363012



AQUASIT mixer pipe
10 mixer pipes in the set
Art. no. 2363015



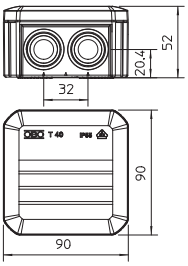
AQUASIT cartridge pistol
Art. no. 2363019

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Aquasit cold casting compound

Aquasit cold casting compound with T40 junction box



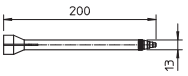


Type	Version	Entries	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
T 40 KVM	With terminal strip	7 x M25	1		1	48.700	**2363012**

Junction box set with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Including Aquasit cold casting compound, IP68 protection rating Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside. With fixed clamping cover. Made from halogen-free materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

AQUASIT mixer pipe





Type		Pack PU	Weight kg/100 PUs	Item no.
KVM-M		1	17.000	**2363015**

10 mixer pipes in the set.
Simple, automatic mixing of OBO AQUASIT when pressing out the compound from the cartridge.

Selection aid, flush-mounted boxes

					Device boxes		Device connection boxes	
				Depth	46 mm		66 mm	
				Without device screws	x		x	
				With device screws		x		x
		Standard installation						
				Type	UG 46	UG 46-GS	UG 66	UG 66-GS
				Item no.	2003700	2003701	2003702	2003703
								
				Type	UG 46-NL		UG 66-NL	
				Item no.	2003714		2003716	
		Airtight installation						
				Type	UG 46-L	UG 46-GS-L	UG 66-L	UG 66-GS-L
				Item no.	2003706	2003707	2003708	2003709
Accessories					**Usable with:**			
All installations	Quick Fix			ZU 60-QF	2003740	x	x	x	x
	Plaster compensation ring	12 mm		ZU 12-PR	2003742	x	x	x	x
		24 mm		ZU 24-PR	2003744	x	x	x	x
	Distance connector			ZU 20-AS	2003746	x	x	x	x
	Cover	Signal		ZU 60-SD	2003760	x	x	x	x
				ZU 60-SDD	2003762				
				ZU 30-SDW	2003768				
		Universal		ZA 60-D	2003748	x	x	x	x
		Sprung		ZA 60-FD	2003749	x	x	x	x
		Double		ZA 60-DV	2003823				
Airtight installations		Sealing insert		ZA 60-DE	2003719	x	x	x	x
	Sealing plug	M20		ZA 20-VS	2003737	x	x	x	x
		M25		ZA 25-VS	2003738	x	x	x	x

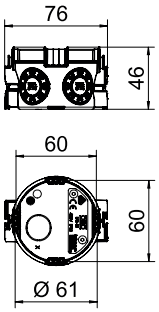
	Device connection boxes with side clamping space	Electronic boxes	Double boxes		Wall outlet boxes
	50 mm	66 mm	46 mm		35 mm
			x		x
	x	x		x	
					
	UE 46	**UE 66**	**UG 46-DV**	**UG 66-DV**	**UG 30-WA-D**
	2003725	2003726	2003722	2003720	2003732
					
		UE 66-L		**UG 66-DV-L**	
		2003727		2003723	
	x	x			
	x	x			
	x	x	x	x	
	x	x			
			x	x	
					x
	x	x			
	x	x			
			x	x	
	x	x			
	x	x	x	x	x
	x	x	x	x	

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UP Flush-mounted device box 46

PP





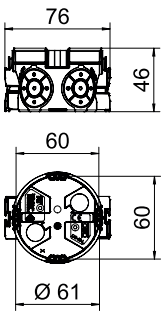
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46	46	7	20/25 mm	Jet black	25	1.930	**2003700**

Flush-mounted device box, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe insertions of Ø 20 and 25 mm
- 1 entry up to Ø 20 mm in the base

UP Flush-mounted device box 46, airtight

PP/ TPE





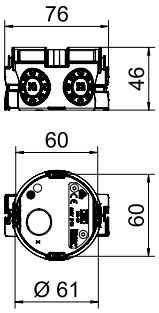
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-L	46	8	20/25 mm	Jet black / blue-grey	25	2.040	**2003706**

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm in the connector
- 2 entries up to Ø 12 mm in the base

UP Flush-mounted device box 46, with device screws

PP





Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-GS	46	7	20/25 mm	Jet black	25	2.050	**2003701**

Flush-mounted device box, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe insertions of Ø 20 and 25 mm
- 1 entry up to Ø 20 mm in the base

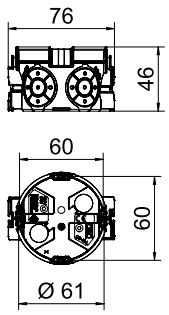
PP/ TPE

Ø 60 | IP 30 | 1,5-2,5 mm² | 400 V | 650°

UP Flush-mounted device box 46, with device screws, airtight

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-GS-L	46	8	20/25 mm	Jet black / blue-grey	25	2.120	**2003707**

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm in the connector
- 2 entries up to Ø 20 mm in the base





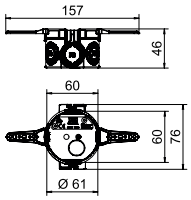
PP

Ø 60 | IP 30 | 1,5-2,5 mm² | 400 V | 650°

UP Flush-mounted device box 46, with nail straps

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-NL	46	7	20/25 mm	Jet black	25	2.200	**2003714**

Flush-mounted device box with nail straps, for use in masonry with an installation depth of at least 46 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe insertions of Ø 20 and 25 mm
- 1 entry up to Ø 20 mm in the base





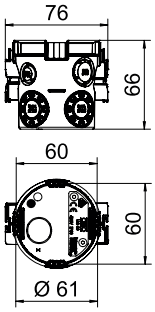
PP

Ø 60 | IP 30 | 1,5-2,5 mm² | 400 V | 650°

UP Flush-mounted device connection box 66

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66	66	13	20/25 mm	Jet black	25	2.390	**2003702**

Flush-mounted device box, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- Connection nozzle with bayonet lock, couplable on both sides
- 6 combination pipe entries up to Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 2 entries up to Ø 14 mm
- 1 entry up to Ø 20 mm in the base





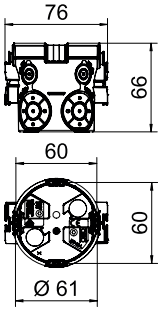
PP/ TPE

Ø 60 | IP 30 | 1,5-2,5 mm² | 400 V | 650°

UP Flush-mounted device connection box 66, airtight

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-L	66	14	20/25 mm	Jet black / blue-grey	25	2.510	**2003708**

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm
- 6 entries up to Ø 12 mm
- 2 entries up to Ø 12 mm in the base



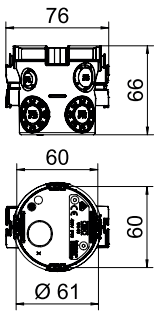


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UP Flush-mounted device connection box, with device screws

PP





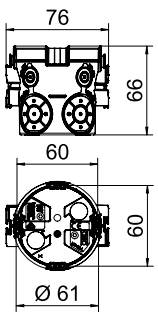
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-GS	66	13	20/25 mm	Jet black	25	2.510	2003703

Flush-mounted device box, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 2 entries up to Ø 14 mm
- 1 entry up to Ø 20 mm in the base

UP Flush-mounted device connection box 66, with device screws, airtight

PP/ TPE



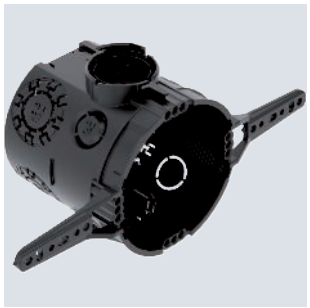


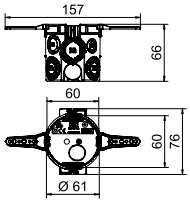
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-GS-L	66	14	20/25 mm	Jet black / blue-grey	25	2.630	2003709

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm
- 6 entries up to Ø 12 mm
- 2 entries up to Ø 12 mm in the base

UP Flush-mounted device connection box 66, with nail straps

PP





Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-NL	66	13	20/25 mm	Jet black	25	2.650	2003716

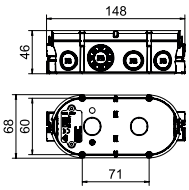
Flush-mounted device box with nail straps, for use in masonry with an installation depth of at least 66 mm.
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 2 entries up to Ø 14 mm
- 1 entry up to Ø 20 mm in the base

PP

Flush-mounted device connection socket 66, double version

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-DV	46	12	20/25 mm	Jet black / blue-grey	10	3.720	2003722

Double flush-mounted device box, for use in masonry with an installation depth of at least 46 mm.
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 6 entries up to Ø 20 mm
- 2 entries up to Ø 20 mm in the base



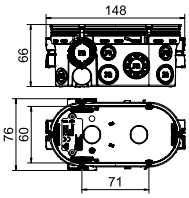


PP

Flush-mounted device connection socket 66, double version

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-DV	66	22	20/25 mm	Jet black	10	5.610	2003720

Double flush-mounted device box, for use in masonry with an installation depth of at least 66 mm.
- With 4 connectors with bayonet lock, couplable on both sides
- 6 combination pipe entries of Ø 20 and 25 mm
- 8 entries up to Ø 20 mm
- 6 entries up to Ø 14 mm
- 2 entries up to Ø 20 mm in the base



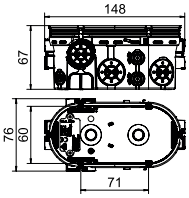


PP/ TPE

Flush-mounted device connection socket 66, double version, airtight

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-DV-L	67	24	20/25 mm	Jet black / blue-grey	10	6.060	2003723

Double flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 67 mm.
- With 4 couplable connectors with bayonet lock
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 14 entries up to Ø 11 mm
- 2 entries up to Ø 20 mm in the base



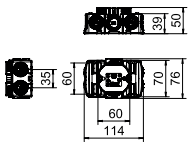


PP

Flush-mounted electronics box 46, rectangular, with clamping area to the side

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UE 46	50	16	20/25 mm	Jet black	10	4.300	2003725

Flush-mounted electronic box, with side clamping space, rectangular shape, for use in masonry with an installation depth of at least 50 mm.
- Connector with bayonet lock, couplable on both sides
- 10 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm in the base
- 4 entries for flat cables/ribbon cables
- 4 x 3 screw domes





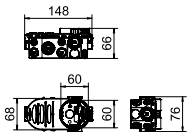
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Electronics sockets

UP Flush-mounted electronic box 66, additional clamping space

PP





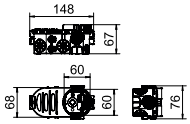
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UE 66	66	22	20/25 mm	Jet black	10	6.150	**2003726**

Flush-mounted electronic box, with additional terminal area, for use in masonry with an installation depth of at least 66 mm.
- With 4 couplable connectors with bayonet lock
- 6 combination pipe entries of Ø 20 and 25 mm
- 8 entries up to Ø 20 mm
- 6 entries up to Ø 14 mm
- 2 entries up to Ø 20 mm in the base
- Partition for different voltages, with break-out openings
- 4 x 3 screw domes

UP Flush-mounted electronic box 66, airtight

PP/ TPE





Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UE 66-L	67	24	20/25 mm	Jet black / blue-grey	10	6.600	**2003727**

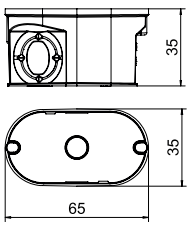
Flush-mounted electronic box, with additional clamping space and airtight membrane entries, for use in masonry with an installation depth of at least 67 mm.
- With 4 couplable connectors with bayonet lock
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 14 entries up to Ø 11 mm
- 2 entries up to Ø 20 mm in the base
- Partition for different voltages, with break-out openings
- 4 x 3 screw domes

Wall luminaire connection sockets

UP Flush-mounted outlet box

PP





Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 30-WA-D	35	4	20 mm	Jet black	25	1.150	**2003732**

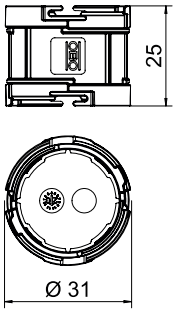
Flush-mounted outlet box for single cable routing. Oval shape, for use in masonry with an installation depth of at least 35 mm.
- 2 entries up to Ø 20 mm
- 1 combination entry of Ø 10 and 20 mm
- 1 entry up to Ø 20 mm in the base

PS

UP Distance connector

Type	Length mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 20-AS	25	Signal red	25	0.350	2003746

Distance connector with bayonet lock for the stable combination of multiple flush-mounted device boxes. To expand the standard centre spacing of 71 mm by 20 mm.



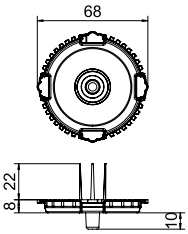


PE

UP Signal cover flush-mounted boxes, single

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 60-SD	Signal red	50	0.380	2003760

Cover as protection of flush-mounted boxes during plastering. Red, with signal bristles for determining position, centring for drill bit, straps for pulling off.



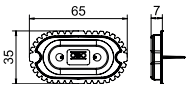


PE

UP Signal cover, flush-mounted outlet box

Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 30-SDW	65x35mm	Signal red	25	0.220	2003768

Cover for flush-mounted outlet box as protection during plastering. Red, with signal bristles for determining position.



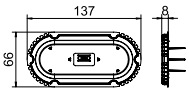


PE

UP Signal cover for flush-mounted box, double

Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 60-SSD	2 x Ø60mm	Signal red	25	1.070	2003762

Cover as protection of double flush-mounted box during plastering. Red, with signal bristles for determining position.

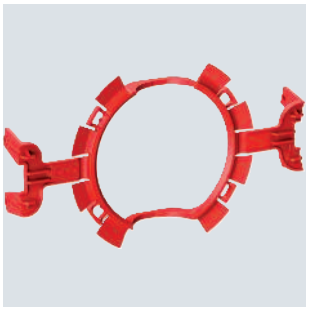


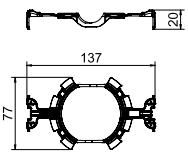


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UP Quick-Fix

PP





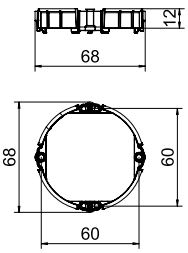
Type	Dia-meter mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 60-QF	60	Signal red	25	0.570	2003740

Quick fixing through clamping of flush-mounted device boxes Ø 60 mm, instead of plastering or sticking.
For openings with a diameter of 80 mm. Not suitable for the use with thin plaster.

UP Plaster compensation ring 12 mm, flush-mounted device box

PS





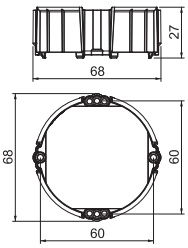
Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 12-PR	Ø60mm, H12mm	Signal red	25	0.650	2003742

Plaster compensation ring for Ø 60 mm flush-mounted box, to screw on.

UP Plaster compensation ring 24 mm, flush-mounted device box

PS





Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 24-PR	Ø60mm, H24mm	Signal red	25	1.020	2003744

Plaster compensation ring for Ø 60 mm flush-mounted box, to screw on.

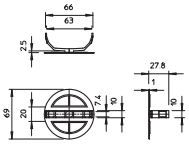
PS

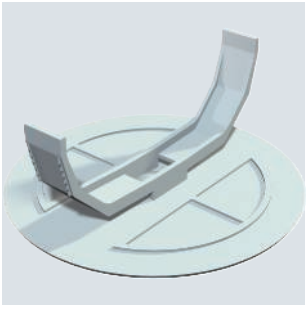
Ø 60

Sprung cover, 60 mm

Type	Ø Max.	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-FD	72	White	25	0.560	2003749

Sprung lid with centrally moulded, elastic spreading spring, for sockets with Ø 60 mm, lid edge is flush, surface is roughened.



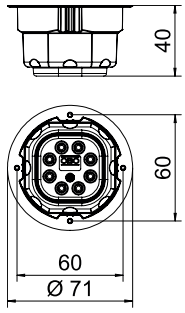


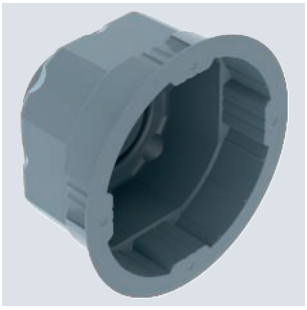
TPE

Sealing insert for device box

Type	Number of entries	Type of entry	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-DE	8	8 x Ø1 mm to 4 mm	Grey	10	1.200	2003719

Sealing insert for flush-mounted and cavity wall boxes, to seal against ingress of air.





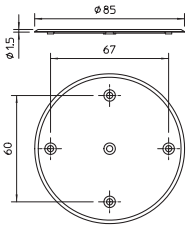
PC/ ABS

Ø 80

Universal cover

Type	Ø Max.	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-D	84	White	25	0.850	2003748

Universal cover for flush-mounted and cavity wall box. With drill holes, hole spacing 60 mm for all device boxes, retractable screws. Roughened surface.



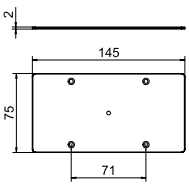


PC/ ABS

Cover, double, rectangular

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-DV	White	5	1.780	2003823

Rectangular cover for double flush-mounted and cavity wall box. With drill holes, retractable screws.



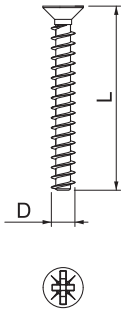


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Device screw for flush-mounted/cavity wall boxes

St G





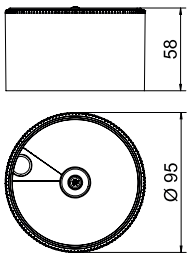
Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
ZA 15-GS-S	Ø3,2mm,15mm	50	0.055	2003268
ZA 25-GS-S	Ø3,2mm,25mm	50	0.087	2003271
ZA 40-GS-S	Ø3,2mm,40mm	50	0.135	2003279

Device screw for mounting devices in flush-mounted or cavity wall device boxes.

Device screws, economy pack for flush-mounted/ cavity wall boxes

St G





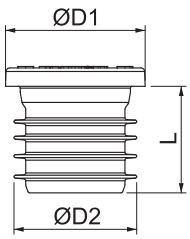
Type	Pack Piece	Weight kg/100 pc.	Item no.
ZA 100-GS-VB	1	37.100	2003280

Economy box with device screws Ø 3.2 mm in 15, 25 and 40 mm lengths, for mounting devices in flush-mounted or cavity wall device boxes.

Sealing plug

TPE





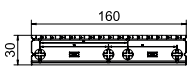
Type	Dim. D1 mm	Dim. D2 mm	Dim. L mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 20-VS	19	15	17	Grey	25	0.170	2003737
ZA 25-VS	24	19	18	Grey	25	0.250	2003738

Sealing plug to close empty pipes.

Drilling template for flush-mounted and cavity wall boxes

PP





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA BS	Orange	10	0.900	2003890

Drilling template for flush-mounted and cavity wall boxes. To draw on the fastening spacings of 71 or 91 mm. With marking aids for centre-punching and notching for alignment, e.g. to chalk line markings.

Selection aid, cavity wall boxes

					Device boxes		Device connection boxes
				Milling hole Ø	68 mm		68 mm
				Depth	35 mm	47 mm	61 mm
			Standard installation				
				Type	HG 35	HG 47	HG 61
				Item no.	2003800	2003802	2003804
			Airtight installation				
				Type		HG 47-L	HG 61-L
				Item no.		2003806	2003808
Accessories					**Usable with:**		
All installations	Fastening element			ZH 12-DB	2003854	x	x	x
	Compensation ring			ZH 68-AR	2003840	x	x	x
	Sealing foil			ZH 68-DF	2003850	x	x	x
	Compensation ring	10 mm		ZH 10-AR	2003842	x	x	x
		20 mm		ZH 20-AR	2003844	x	x	x
	Connector			ZH 11-V	2003846	x	x	x
	Cover	Internal		ZH 60-ID	2003848	x	x	x
		Universal		ZA 60-D	2003748	x	x	x
		Double		ZA 60-DV	2003823			
Airtight installations		Sealing insert		ZA 60-DE	2003719		x	x
	Sealing plug	M20		ZA 20-VS	2003737		x	x
		M25		ZA 25-VS	2003738		x	x

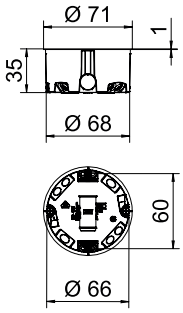
Electronic boxes		Double boxes		Wall outlet boxes		PERILEX 16 A	CEE 16 A	Connection boxes
68 mm	2 x 68 mm	2 x 68 mm		35 mm	2 x 35 mm	74 mm		
75 mm	61 mm	47 mm	61 mm	45 mm			61 mm	
								
		HG 47-DV				HG 61-AD	HG 61-AD-IP	HG 61-AD-D
		2003822				2003818	2003819	2003820
								
HE 74-L	HE 61-DV-L		HE 61-DV-L	HG 45-WA-LD	HG 45-WAD-LD			
2003828	2003826		2003826	2003832	2003834			
x	x	x	x		x	x	x	x
x								
x				x		x	x	x
x								
x								
x	x	x	x					
x								
x								
		x	x					
x	x	x	x		x	x	x	x
x	x	x	x		x	x	x	x

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Cavity wall device box 35

PP





Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 35	68	5-28	35	6	Orange	25	1.840	**2003800**

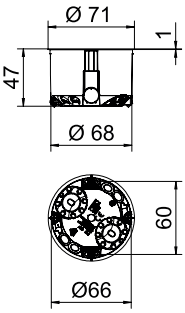
Cavity wall device box for use in cavity walls with an installation depth of at least 35 mm and a plate thickness of 5–28 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 4 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- Connection with other device boxes of type HG 35 via connector, type ZH 11-V

Delivery accessories: 10 x connectors, type ZH 11-V

Cavity wall device box 47

PP





Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 47	68	5-40	47	6	Orange	25	2.250	**2003802**

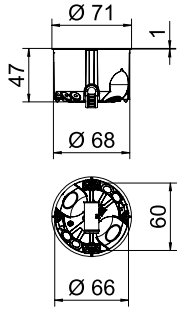
Cavity wall device box for use in cavity walls with an installation depth of at least 47 mm and a plate thickness of 5–40 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 combination pipe entries of Ø 20 and 25 mm
- 2 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- Connection with other device boxes via connector, type ZH 11-V

Delivery accessories: 10 x connectors, type ZH 11-V

Cavity wall device box 47, airtight

PP/ TPE





Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 47-L	68	5-40	47	6	Orange / grey	25	2.410	**2003806**

Cavity wall device box with airtight membrane entries for use in cavity walls with an installation depth of at least 47 mm and a plate thickness of 5–40 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 combination pipe entries of Ø 20 and 25 mm
- 2 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- Airtight connection with other device boxes via connector, type ZH 11-V

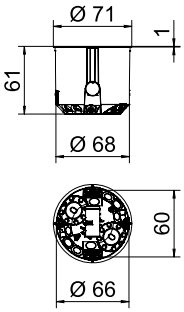
Delivery accessories: 10 x connectors, type ZH 11-V

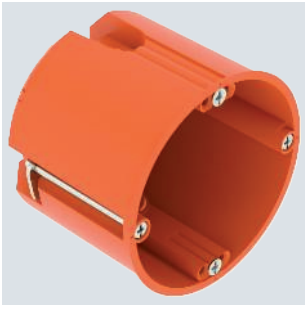
PP

IP 30 | Ø 68 | 1,5-2,5 mm² | 400 V | 850°

Cavity wall device connection box 61

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61	68	5-40	61	10	Orange	25	2.500	2003804





Cavity wall device box for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5-40 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Connection with other device boxes via connector, type ZH 11-V

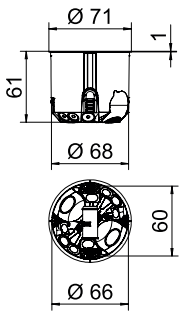
Delivery accessories: 10 x connectors, type ZH 11-V

PP/ TPE

IP 30 | Ø 68 | 1,5-2,5 mm² | 400 V | 850°

HW Cavity wall device connection box 61, airtight

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-L	68	5-40	61	10	Orange / grey	25	2.750	2003808





Cavity wall device box with airtight membrane entries for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Airtight connection with other accessory sockets via connector, type ZH 11-V

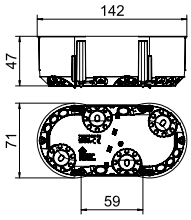
Delivery accessories: 10 x connectors, type ZH 11-V

PP

IP 30 | Ø 68 | 1,5-2,5 mm² | 400 V | 850°

HW Cavity wall device box 47, double

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 47-DV	68	5-40	47	12	Orange	10	4.230	2003822



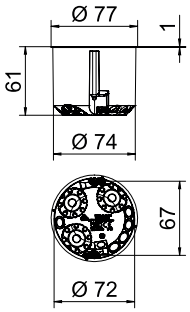


Double cavity wall device box for use in cavity walls with an installation depth of at least 47 mm and a plate thickness of 5 - 40 mm.
- 6 screw domes
- Device screws, clamping straps
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Connection with other device boxes via connector, type ZH 11-V

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HW Cavity wall device box 61, CEE/PERILEX



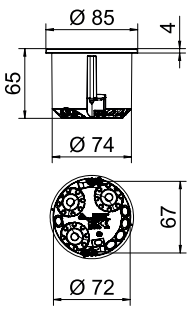


Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-AD	74	5-40	61	9	Orange	10	2.130	**2003818**

CEE/PERILEX cavity wall device box for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 2 screw domes
- Device screws, clamping straps
- 3 combination pipe entries of Ø 20 and 25 mm
- 3 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- 1 entry for NYM cables 3 x 1.5 mm²

HW Cavity wall device box 61, CEE/PERILEX, with sealing ring



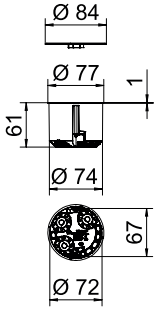


Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-AD-IP	74	5-40	61	9	Orange	10	3.290	**2003819**

CEE/PERILEX cavity wall device box with sealing ring, for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 2 screw domes
- Device screws, clamping straps
- 3 combination pipe entries of Ø 20 and 25 mm
- 3 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- 1 entry for NYM cables 3 x 1.5 mm²

HW Cavity wall device box 61, CEE/PERILEX, with cover





Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-AD-D	74	5-40	61	9	Orange	10	2.980	**2003820**

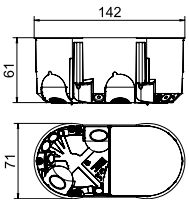
CEE/PERILEX cavity wall device box with cover, for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 2 screw domes
- Device screws, clamping straps
- 3 combination pipe entries of Ø 20 and 25 mm
- 3 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- 1 entry for NYM cables 3 x 1.5 mm²

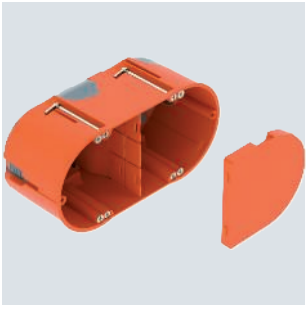
PP/ TPE

IP 30 | 1,5-2,5 mm² | 400 V | Ø 68 | 850°

HW Cavity wall electronic box 61, airtight

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HE 61-DV-L	68	5-40	61	14	Orange / grey	10	6.190	**2003826**





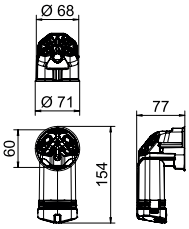
Cavity wall electronic box with membrane entries, cover and partition, for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
- 6 screw domes
- Device screws, clamping straps
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm²
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Airtight connection with other device boxes via connector, type ZH 11-V

PP/ TPE

IP 30 | 1,5-2,5 mm² | 400 V | Ø 68 | 850°

HW Cavity wall electronic box 74, airtight, with elastomer sack

Type	Milling hole Ø mm	Suitable for plate thickness mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HE 74-L	68	5-35	8	Orange / grey	10	4.446	**2003828**





Cavity wall electronic box with membrane entries for additional wiring space, for use in cavity walls with an installation depth of at least 75 mm and a plate thickness of 5 - 35 mm.
- 2 x 3 screw domes
- Device screws, clamping straps
- 2 entries for NYM cables 3 x 1.5 mm²
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- 2 combination pipe entries Ø 20 and 25 mm in the bottom area of the wiring space

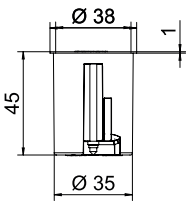
Wall luminaire connection sockets

PP/ TPE

IP 30 | 1,5 mm² | 400 V | 850°

HW Cavity wall outlet box, airtight

Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 45-WA-LD	35	5-40	45	2	Orange / grey	25	0.990	**2003832**



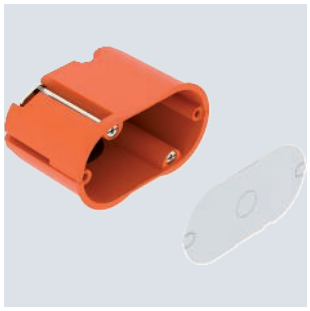


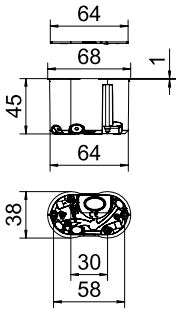
Airtight cavity wall outlet box for cavity walls, for the mounting of wall luminaires or loudspeakers With cover.
- 1 entry for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 1 entry for NYM cables 3 x 1.5 mm²

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Wall luminaire connection sockets

HW Cavity wall outlet box, double, airtight



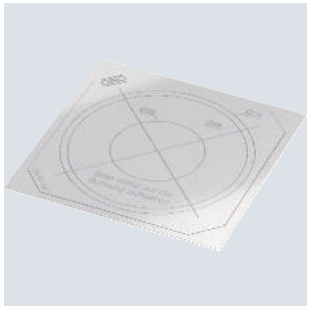


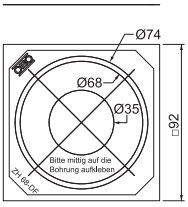
Type	Milling hole Ø mm	Suitable for plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 45-WAD-LD	35	5-40	45	4	Orange / grey	25	1.930	**2003834**

Airtight, double wall outlet box for cavity walls, for the mounting of wall luminaires or loudspeakers With cover.
- 1 entry for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 3 x 1.5 mm²
- 1 combination pipe entry for Ø 20 and 25 mm

Accessories, cavity wall

Sealing foil, cavity wall device box

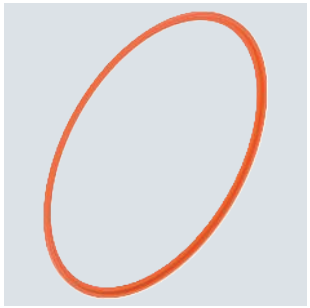


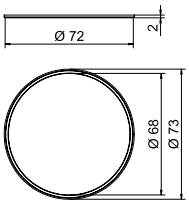


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 68-DF	Transparent	10	0.500	**2003850**

Foil for sealing of installation openings that are cut too large or broken out.

HW Compensation ring





Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 68-AR	Ø68mm	Orange	10	0.050	**2003840**

Compensation ring for cavity wall box Ø 68 mm, to compensate for large or unround drill holes.

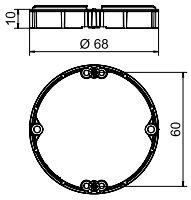
PP

Ø 68

HW Compensation ring 10

Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 10-AR	Ø68mm, H10mm	Orange	25	0.360	2003842

Compensation ring for cavity wall device box Ø 68 mm, to screw on.





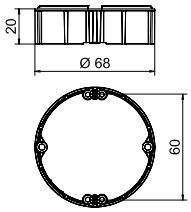
PP

Ø 68

HW Compensation ring 20

Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 20-AR	Ø68mm, H20mm	Orange	25	0.580	2003844

Compensation ring for cavity wall device box Ø 68 mm, to screw on.



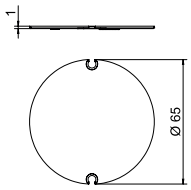


PC/ ABS

Inner fitting, cover cavity wall device box

Type	Ø Max.	Height mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 60-ID	65	1	White	25	1.130	2003848

Inner fitting cover for cavity wall device box, to screw on.



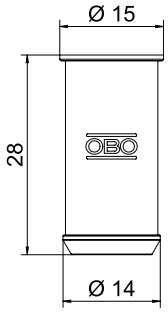
PP

IP 30

HW Connector for cavity wall boxes

Type	Dia-meter mm	Length mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 11V	14.5	28	Orange	10	0.098	2003846

Connector to connect cavity wall boxes and pass cable wires through. Airtight in conjunction with airtight cavity wall boxes.





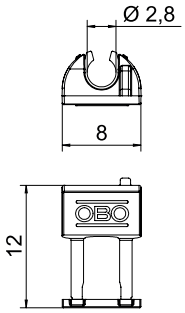
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HW Fastening element, thin panelling

PP

CE





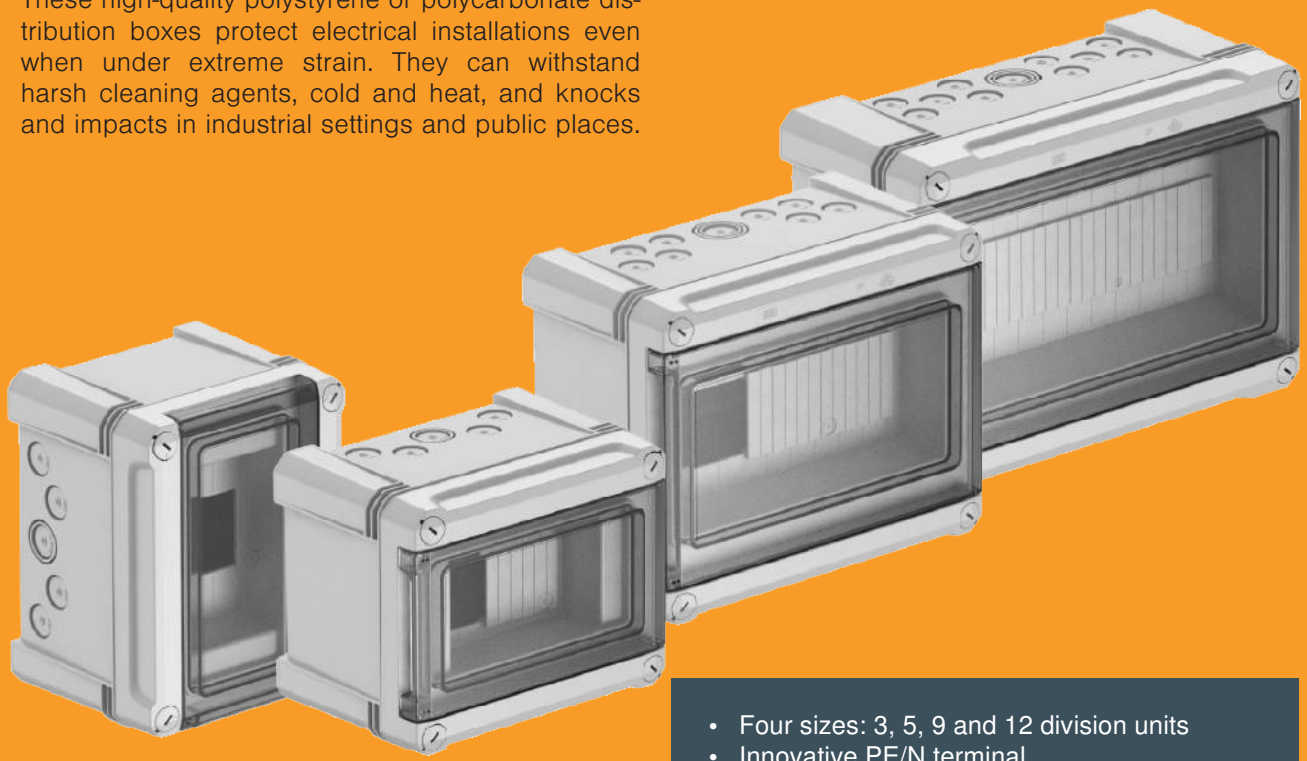
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 12-DB	Orange	50	0.012	2003854

Fastening element to extend the tensioning area for thin panelling, suitable for panelling thicknesses of up to 0.2 mm.



SDB distribution box series

These high-quality polystyrene or polycarbonate distribution boxes protect electrical installations even when under extreme strain. They can withstand harsh cleaning agents, cold and heat, and knocks and impacts in industrial settings and public places.



- Four sizes: 3, 5, 9 and 12 division units
- Innovative PE/N terminal
- Flexible fastening
- Adhesive labelling sheets

IP 66

IK 07

PC

IP 66 | IK 07 | M20 | M25 | M | 400 V | UV RESISTANT | 850° | HALOGEN-FREE | VDE

Distribution box, 3 division units, with terminal strip

Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 03 PC	Light grey	150x190x125	1	75.540	2008840



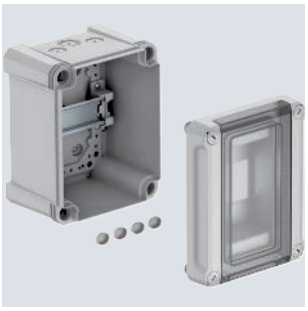
Distribution box with terminal strip for surface mounting, for the current sub-distribution in interior and exterior areas, in accordance with IEC 439-3. With pre-mounted 35 mm hat profile rail. IP66 protection type and IK06 protection rating. Transparent cover to screw on, with cut-out.
- Protection-insulated for a maximum of 3 division units
- Terminal strip set consisting of: One each of: PE/N terminal (1x25 mm² and 1x16 mm² screw terminals, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
- Identification plates for connected consumers
- 2 elastic cable entries Ø20 mm for cable diameters of 0–17 mm
- 1 elastic cable entry Ø25 mm for cable diameters of 0–22 mm
- 2 Ø 20 mm break-out openings each at the top and bottom
- 1 Ø 20/25 mm combination break-out opening each at the top and bottom
- 4 screw cover caps
- 2 stainless steel external fastenings
- Cover strip for unused division units

PS | PC

IP 66 | IK 07 | M20 | M25 | M | 400 V | UV RESISTANT | 850° | HALOGEN-FREE | VDE

Distribution box, 3 division units, empty

Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 03L PC	Light grey	150x190x125	1	78.000	2008860
SDB 03L PS	Light grey	150x190x125	1	69.000	2008820



Small distributor for surface mounting, for the current sub-distribution in interior and exterior areas, according to IEC 439-3. With pre-mounted 35 mm hat profile rail. IP66 protection type and IK06 protection rating. Transparent cover to screw on, with cut-out. Including 4 screw cover caps.
- Protection-insulated for a maximum of 3 division units
- 2 break-out openings each of Ø 20 mm at the top and bottom
- 1 combination break-out opening each of Ø 20/25 mm at the top and bottom
- 4 screw cover caps

PS | PC

IP 66 | IK 06 | M20 | M25 | M | 400 V | 650° | HALOGEN-FREE

Distribution box, 5 division units, empty

Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 05L PS	Light grey	190x150x125	1	69.500	2008824
SDB 05L PC	Light grey	190x150x125	1	78.500	2008864



Distribution box for surface mounting, for the current sub-distribution in interior and protected exterior areas, in accordance with IEC 439-3. With pre-mounted 35 mm hat profile rail. IP66 protection type and IK06 protection rating. Transparent cover to screw on, with cut-out.
- Protection-insulated for a maximum of 5 division units
- 4 Ø 20 mm break-out openings each at the top and bottom
- 1 Ø 20/25 mm combination break-out opening each at the top and bottom
- 4 screw cover caps

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Distribution box, 9 division units, with terminal strip

PC

CE IP 66 IK 07 M20 M25 M32 M 400 V UV RESISTANT 650° HALOGENFREE VDE



Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 09 PC	Light grey	240x191x125	1	103.840	**2008848**

Distribution box with terminal strip for surface mounting, for the current sub-distribution in interior and exterior areas, in accordance with IEC 439-3. With pre-mounted 35 mm hat profile rail. IP66 protection type and IK06 protection rating. Transparent cover to screw on, with cut-out.
- Protection-insulated for a maximum of 9 division units
- Terminal strip set consisting of: One each of: PE/N terminal (1x25 mm² and 1x16 mm² screw terminals, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
- Identification plates for connected consumers
- 6 elastic cable entries Ø20 mm for cable diameters of 0–17 mm
- 1 elastic cable entry Ø25 mm for cable diameters of 0–22 mm
- 1 elastic cable entry Ø32 mm for cable diameters of 0–28 mm
- 8 Ø 20 mm break-out openings each at the top and bottom
- 1 Ø 20/25/32 mm combination break-out opening each at the top and bottom
- 4 screw cover caps
- 2 stainless steel external fastenings
- Cover strips for unused division units

Distribution box, 9 division units, empty

PS PC

IP 66 IK 06 M20 M25 M32 M 400 V 650° HALOGENFREE



Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 09L PS	Light grey	240x191x125	1	96.000	**2008828**
SDB 09L PC	Light grey	240x191x125	1	108.000	**2008868**

Distribution box for surface mounting, for the current sub-distribution in interior and protected exterior areas, in accordance with IEC 439-3. With pre-mounted 35 mm hat profile rail. IP66 protection type and IK06 protection rating. Transparent cover to screw on, with cut-out.
- Protection-insulated for a maximum of 9 division units
- 8 Ø 20 mm break-out openings each at the top and bottom
- 1 Ø 20/25/32 mm combination break-out opening each at the top and bottom
- 4 screw cover caps

Distribution box, 12 division units, empty

PS



Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 12L PS	Light grey	286x202x125	1	120.000	**2008832**

Distribution box with terminal strip for surface mounting, for the current sub-distribution in interior and protected exterior areas, in accordance with IEC 439-3. With pre-mounted 35 mm hat profile rail. IP66 protection type and IK06 protection rating. Transparent cover to screw on, with cut-out.
- Protection-insulated for a maximum of 12 division units
- Terminal strip set consisting of: Three each of: PE/N terminals with 4x 16 mm² screw terminals, mini hat profile rail, mounting instructions and fastening set
- Identification plates for connected consumers
- 8 elastic cable entries Ø20 mm for cable diameters of 0–17 mm
- 1 elastic cable entry Ø25 mm for cable diameters of 0–22 mm
- 1 elastic cable entry Ø32 mm for cable diameters of 0–28 mm
- 10 Ø 20 mm break-out openings each at the top and bottom
- 1 Ø 20/25/32 mm combination break-out opening each at the top and bottom
- 4 screw cover caps

PC

Distribution box, 12 division units, empty

Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 12L PC	Light grey	286x202x125	1	134.000	2008872



Small distributor for surface mounting, for the current sub-distribution in interior and exterior areas, according to IEC 439-3. With pre-mounted 35 mm hat profile rail. IP66 protection type and IK06 protection rating. Transparent cover to screw on, with cut-out. Including 4 screw cover caps.
- Protection-insulated for a maximum of 12 division units
- 11 break-out openings each of Ø 20 mm at the top and bottom
- 1 combination break-out opening each of Ø 20/25/32 mm at the top and bottom
- 4 screw cover caps

PC

Distribution box, 12 division units, with terminal strip

Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 12 PC	Light grey	286x202x125	1	150.000	2008852

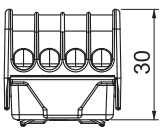


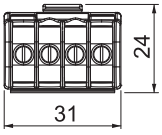
Distribution box with terminal strip for surface mounting, for the current sub-distribution in interior and exterior areas, in accordance with IEC 439-3. With pre-mounted 35 mm hat profile rail. IP66 protection type and IK06 protection rating. Transparent cover to screw on, with cut-out.
- Protection-insulated for a maximum of 12 division units
- Terminal strip set consisting of: One each of: PE/N terminal (1x25 mm² and 1x16 mm² screw terminals, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
- Identification plates for connected consumers
- 8 elastic cable entries Ø20 mm for cable diameters of 0–17 mm
- 1 elastic cable entry Ø25 mm for cable diameters of 0–22 mm
- 1 elastic cable entry Ø32 mm for cable diameters of 0–28 mm
- 10 Ø 20 mm break-out openings each at the top and bottom
- 1 Ø 20/25/32 mm combination break-out opening each at the top and bottom
- 4 screw cover caps
- 2 stainless steel external fastenings
- Cover strips for unused division units

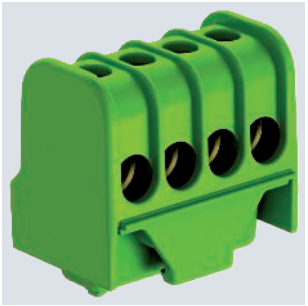
PA

Protective conductor terminal, with screw contacts, 4 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBS4x16GN	Green	10	1.980	2016250







Protective conductor connection terminal strip, brass, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pole, with terminal sockets, max. connectable conductors per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².

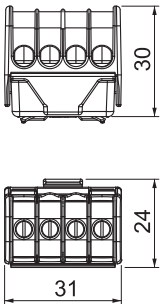
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Neutral conductor terminals

Neutral conductor terminal, with screw contacts, 4 terminals

PA





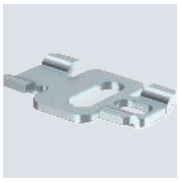
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBN4x16BL	Blue	10	1.980	2016255

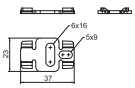
Neutral conductor connection terminal, brass, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pole, with terminal sockets, max. connectable conductors per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².

External fastening

External fastening or connection

A2 2B





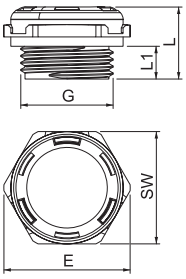
Type	Pack Piece	Weight kg/100 pc.	Item no.
AV-S	20	0.900	2007990

The convenient external fastening/connection means the cable boxes and distribution boxes of the S and SDB series can be fastened easily to a wall. Because they fasten outside the cable box, the possibility of voltage carry over is ruled out.
These metal connectors can also be used for lining up several boxes together.

Pressure compensation element

Pressure compensation element





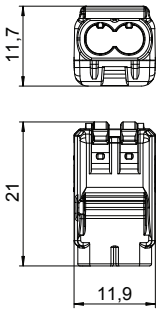
Type	Thread	Protection rating	Colour	Pack Piece	Weight kg/100 pc.	Item no.
109 M20 LGR	M20 x 1,5	IP68	Light grey	1	0.538	2034680

The pressure compensation element, type 109 M20 LGR compensates for pressure differences in junction boxes, small distributors and connection sockets with an M20 opening and avoids the formation of condensation water in sealed housings. The polyamide pressure compensation element has an IP68/IP69 protection rating. This remains intact, even after the installation of the pressure compensation element. The pressure compensation element is suitable for use in industrial environments and in exterior areas.

Universal plug-in terminal, 2-pole

PC





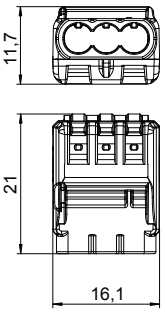
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 225 FL	Transparent	100	0.200	**2054450**

Tested according to EN 60998.
Screwless terminal to connect electrical conductors. The type of conductor can either be flexible, multi-wire or rigid.
If rigid conductors are used, an opening of the release lever is not necessary. The conductor can be plugged into the terminal directly.
To extract the conductors, simply open the release lever. The strand can then be easily pulled-out.
Nominal cross-section:
2 x 0.2 - 2.5 mm² multi-wire cables / single-wire conductors
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 9 mm (+1 mm).
Inspection opening: Phase tester and testing pin (max. Ø 2 mm), very easily accessible on the top side of the terminal
Max. approved ambient temperature according to EN 60998: -5 to +85 °C.

Universal plug-in terminal, 3-pole

PC





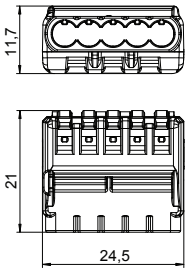
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 325 FL	Transparent	75	0.270	**2054454**

Tested according to EN 60998.
Screwless terminal to connect electrical conductors. The type of conductor can either be flexible, multi-wire or rigid.
If rigid conductors are used, an opening of the release lever is not necessary. The conductor can be plugged into the terminal directly.
To extract the conductors, simply open the release lever. The strand can then be easily pulled-out.
Nominal cross-section:
3 x 0.2 - 2.5 mm² multi-wire cables / single-wire conductors
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 9 mm (+1 mm).
Inspection opening: Phase tester and testing pin (max. Ø 2 mm), very easily accessible on the top side of the terminal
Max. approved ambient temperature according to EN 60998: 85 °C.

Universal plug-in terminal, 5-pole

PC





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 525 FL	Transparent	50	0.410	**2054458**

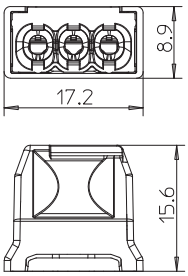
Tested according to EN 60998.
Screwless terminal to connect electrical conductors. The type of conductor can either be flexible, multi-wire or rigid.
If rigid conductors are used, an opening of the release lever is not necessary. The conductor can be plugged into the terminal directly.
To extract the conductors, simply open the release lever. The strand can then be easily pulled-out.
Nominal cross-section:
5 x 0.2 - 2.5 mm² multi-wire cables / single-wire conductors
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 9 mm (+1 mm).
Inspection opening: Phase tester and testing pin (max. Ø 2 mm), very easily accessible on the top side of the terminal
Max. approved ambient temperature according to EN 60998: 85 °C.

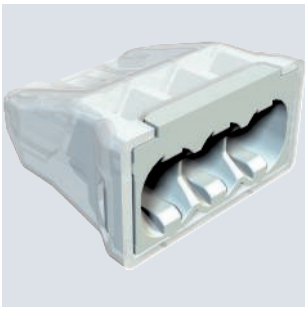
PA

Screwless terminal, 3-pin

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 325 LGR	Light grey	100	0.135	2054485

Tested according to EN 60998
Screwless terminal to connect single-strand cables.
Nominal cross-section:
3 x 0.5 mm² to 2.5 mm² single-wire conductors
3 x 1.5 mm² to 2.5 mm² rigid, multi-wire conductors
Rated voltage 450 V
Rated current 24 A
Stripping length: 8-9 mm
Test opening: Phase tester and testing pin (max. Ø 2 mm)
Max. approved ambient temperature according to EN 60998: –5 to +90 °C.



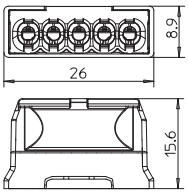


PA

Screwless terminal, 5-pin

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 525 LGR	Light grey	100	0.300	2054507

Screwless terminal to connect single-strand cables.
Nominal cross-section:
5 x 0.5 mm² to 2.5 mm² single-wire cable
5 x 1.5 mm² to 2.5 mm² rigid, multi-wire cable
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).



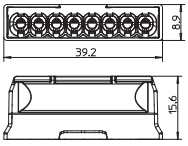


PA

Screwless terminal, 8-pin

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 825 LGR	Light grey	50	0.490	2054523

Screwless terminal to connect single-strand cables.
Nominal cross-section:
8 x 0.5 mm² to 2.5 mm² single-wire cables
8 x 1.5 mm² to 2.5 mm² rigid, multi-wire cables
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).





2,5–4 mm² | 450 V | 32 A

Universal plug-in terminal, 2-pole

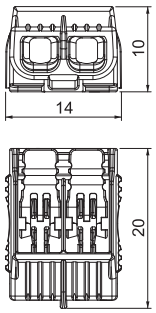
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 HSK42	–	100	0.200	2054422

Screwless terminal to connect single-wire, multi-wire and flexible electrical conductors.
Easily accessible test openings with phase tester and testing pin (max. Ø 2 mm). Rigid conductors can be inserted without releasing the lever.
Stripping length: 11 mm (+1 mm)
Acc. to VDE 0471/DIN 695 Part 2-1, test temperature 850 °C

Test and conformity mark according to ENEC 11 tested at ÖVE

Technical data according to EN 60998-1/EN 60998-2-2:
Rated voltage 450 V
Clamping range 0.2– 4 mm²
Ambient temperature 85 °C

Technical data according to UL 486 C (USA/Canada):
Rated voltage 600 V
Clamping range AWG 24–12
Operating temperature max. 105 °C

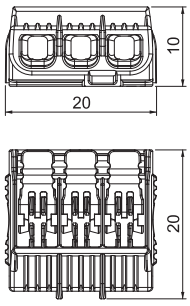




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Screwless terminal, universal, 3-pin





Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
61 HSK43	–		75	0.270	**2054423**

Screwless terminal to connect single-wire, multi-wire and flexible electrical conductors.
Easily accessible test openings with phase tester and testing pin (max. Ø 2 mm). Rigid conductors can be inserted without releasing the lever.
Stripping length: 11 mm (+1 mm)
Acc. to VDE 0471/DIN 695 Part 2-1, test temperature 850 °C

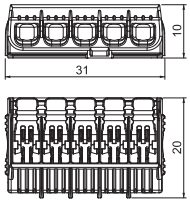
Test and conformity mark according to ENEC 11 tested at ÖVE

Technical data according to EN 60998-1/EN 60998-2-2:
Rated voltage 450 V
Clamping range 0.2–0.4 mm²
Ambient temperature 85 °C

Technical data according to UL 486 C (USA/Canada):
Rated voltage 600 V
Clamping range AWG 24–12
Operating temperature max. 105 °C

Universal plug-in terminal, 5-pole





Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
61 HSK45	–		45	0.410	**2054425**

Screwless terminal to connect single-wire, multi-wire and flexible electrical conductors.
Easily accessible test openings with phase tester and testing pin (max. Ø 2 mm). Rigid conductors can be inserted without releasing the lever.
Stripping length: 11 mm (+1 mm)
Acc. to VDE 0471/DIN 695 Part 2-1, test temperature 850 °C

Test and conformity mark according to ENEC 11 tested at ÖVE

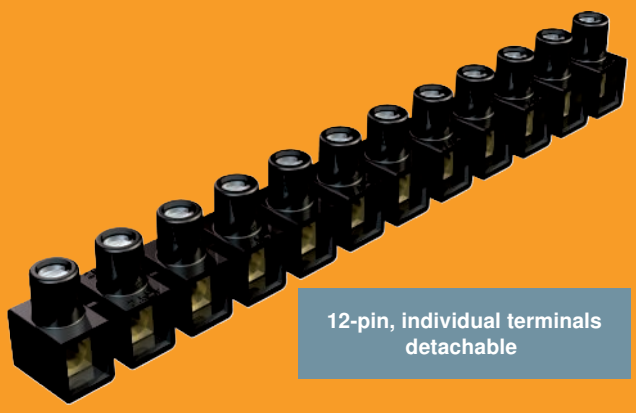
Technical data according to EN 60998-1/EN 60998-2-2:
Rated voltage 450 V
Clamping range 0.2–0.4 mm²
Ambient temperature 85 °C

Technical data according to UL 486 C (USA/Canada):
Rated voltage 600 V
Clamping range AWG 24–12
Operating temperature max. 105 °C

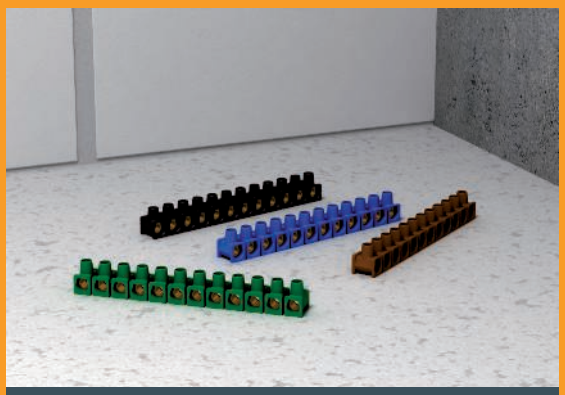


Dolü branch terminal

The branch terminal/terminal strip consists of an insulating plastic housing that serves as electric shock protection for the steel/brass terminal insert. Thus no voltage-carrying parts can be touched if the component is used correctly. The ends of the wire strands must be inserted using ferrules. These ensure no mechanical damage can occur and rule out the risk of damage to individual strands from the clamping screw as it turns. When using terminal strips, it must be ensured in each individual case that the installation conforms to the applicable VDE standards.



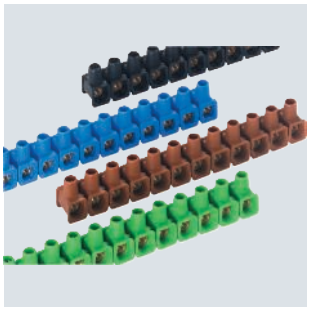
12-pin, individual terminals detachable

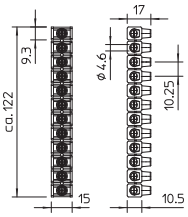


Various colours

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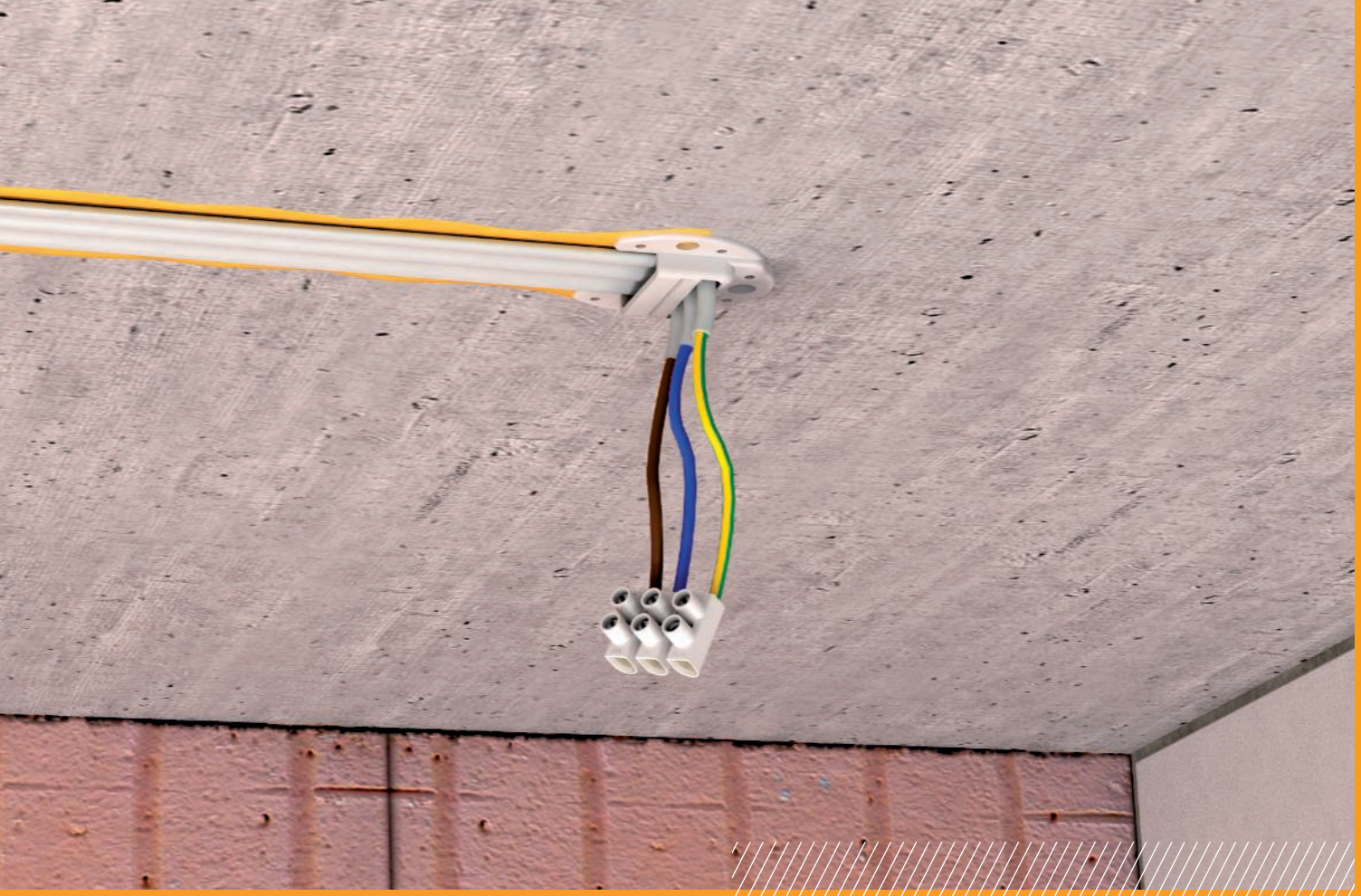
Dolü branch terminals, open on both sides, 12-pin





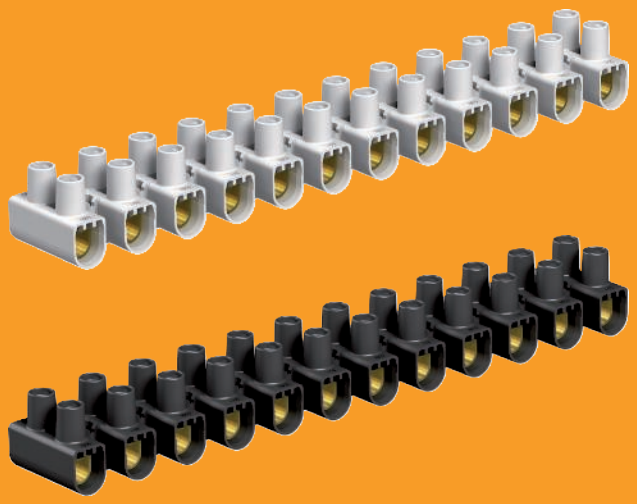
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
70 VDE	Sorted	400	10	2.500	**2055023**

Sorted in colours black, brown, blue and yellow-green.
Terminals made of brass, screws of steel, galvanised and transparently passivated, 12-pole, strip separable into individual terminals, open on both sides.
Captive upwards screw.
Nominal cross-section 2,5 mm².
Nominal voltage 380 V.
Nominal current 16 A.
Max. connectable cross-sections per terminal: 4 x 2.5 mm², 5 x 1.5 mm² or 6 x 1 mm².



Terminal strips

The branch terminal/terminal strip consists of an insulating plastic housing that serves as electric shock protection for the steel/brass terminal insert. Thus no voltage-carrying parts can be touched if the component is used correctly. The ends of wire strands must be inserted with wire end sleeves to ensure no mechanical damage can occur and rule out the risk of damage to individual strands from the clamping screw as it turns.



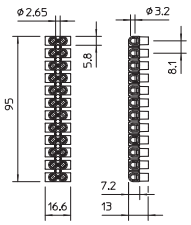
- Tested to EN 60998
- Brass terminals, bolts made of electrogalvanised steel
- 12-pin strips, separable into individual terminals through "twist'n'pull"
- Captive upwards screw
- Max. approved ambient temperature to EN 60998: –5 to +80 °C
- Nominal cross-section 4–35 mm²

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4 mm² series connectors, polypropylene

PP





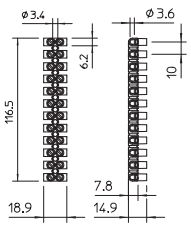
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
72 CE WS/EKL 0 S	White	500	10	1.800	**2056070**
72 CE SW/EKL 0 S	Black	500	10	1.800	**2056089**

Tested according to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pin, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: —5 to +80 °C.
Nominal cross-section 4 mm².
Nominal voltage 450 V.
Nominal current 32 A.
Max. attachment each side: 4 mm² single-wire or 2.5 mm² multi-wire/flexible.

6 mm² series connectors, polypropylene

PP





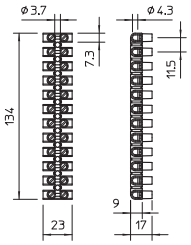
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
74 CE WS/EKL 1 S	White	200	10	2.600	**2056224**
74 CE SW/EKL 1 S	Black	200	10	2.600	**2056232**

Tested according to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pin, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: —5 to +80 °C.
Nominal cross-section 6 mm².
Nominal voltage 450 V.
Nominal current 41 A.
Max. connections on each side: 6 mm² single-wire or 4 mm² fine-wire.

10 mm² series connectors, polypropylene

PP



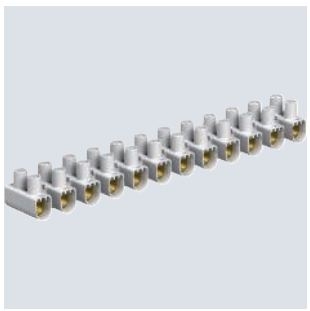


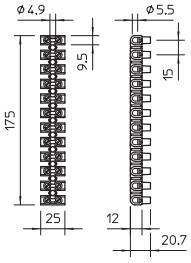
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
76 CE WS/EKL 2 S	White	100	10	4.300	**2056372**
76 CE SW/EKL 2 S	Black	100	10	4.300	**2056380**

Tested to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pole, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: –5 to +80 °C.
Nominal cross-section 10 mm².
Nominal voltage 450 V.
Nominal current 57 A.
Max. attachment each side: 10 mm² single-wire or 6 mm² multi-wire/flexible.

16 mm² series connectors, polypropylene

PP





Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
78 CE WS/EKL 3 S	White	100	10	7.500	**2056550**
78 CE SW/EKL 3 S	Black	100	10	7.500	**2056569**

Tested to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pole, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: –5 to +80 °C.
Nominal cross-section 16 mm².
Nominal voltage 450 V.
Nominal current 76 A.
Max. attachment each side: 16 mm² single-wire or 10 mm² multi-wire or 6 mm² flexible.

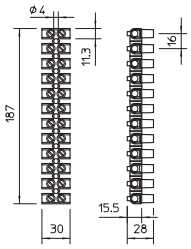
PP

25 mm²

25 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
79 CE WS/EKL 4BE	White	50	10	11.200	2056577
79 CE SW/EKL 4BE	Black	50	10	11.200	2056585

Tested to EN 60998.
Brass terminals, steel screws, electrogalvanised and transparently passivated, 12-pole, individual terminals detachable from strips.
Captive upwards screw.
Max. approved ambient temperature to EN 60998: –5 to +80 °C.
Nominal cross-section 25 mm².
Nominal voltage 750 V.
Nominal current 101 A.
Max. attachment each side: 25 mm² multi-wire or 16 mm² fine-wire.





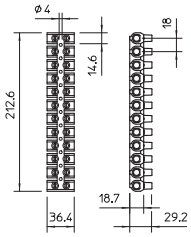
PP

35 mm²

35 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
80 CE WS/EKL 5E	White	50	10	17.400	2056590
80 CE SW/EKL 5E	Black	50	10	17.400	2056593

Tested to EN 60998.
Brass terminals, steel screws, electrogalvanised, 12-pole, individual terminals detachable from strips.
Captive upwards screw.
Max. approved ambient temperature to EN 60998: –5 to +80 °C.
Nominal cross-section 35 mm².
Nominal voltage 750 V.
Nominal current 125 A.
Max. attachment each side: 35 mm² multi-wire or 25 mm² fine-wire.



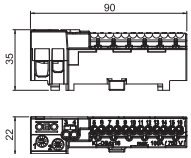


PA

Phase terminal, with screwless contacts, 12 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBP12x02GR	Grey	10	4.500	2016270

Phase connection terminal with 12 2.5 mm² screwless terminal points; two 4 mm² screwless terminal points and two 16/25 mm² screw connection terminal points.
For snapping onto 15 mm hat rails to DIN EN 50022.

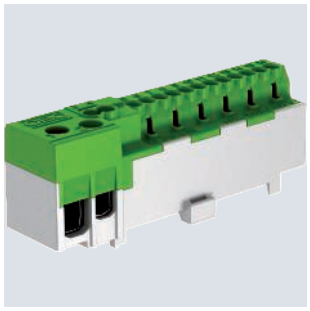


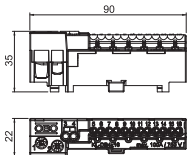


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Protective conductor terminal, with screwless contacts, 12 terminals

PA



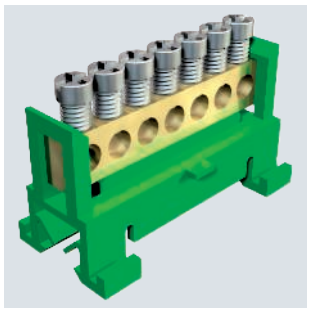


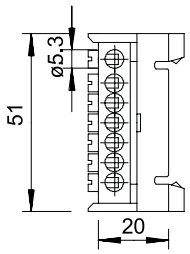
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBS12x02GRGN	Grey/green	10	4.500	2016260

Neutral conductor connection terminal with 12 plug-in terminals, 2.5 mm² or 1.5 mm², flexible with wire end sleeve; two plug-in terminals, 4 mm² and 2.5 mm², flexible with wire end sleeve and two screw connection terminals up to 25 mm² or 16 mm², flexible, 3 Nm. For snapping onto 15 mm hat rails according to DIN EN 60715 (formerly DIN EN 50022).

Protection conductor terminals, with screw contacts, 7 terminals

PA



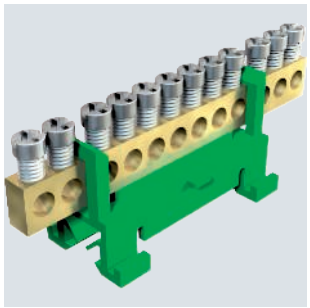


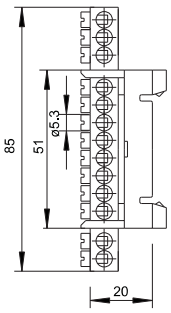
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 S 7x16 GN	Green	10	2.900	2054019

Protective conductor connection terminal with 7 terminals up to 16 mm².
Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 x 7.5 mm hat profile rails to DIN EN 60715 (previously DIN EN 50022) (transverse) or flat rails 10 x 2–2.5 mm (lengthwise).

Protection conductor terminals, with screw contacts, 12 terminals

PA





Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 S 12x16 GN	Green	10	4.200	2054094

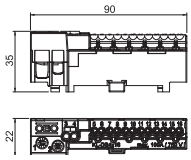
Protective conductor connection terminal with 7 terminals up to 16 mm².
Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 x 7.5 mm hat profile rails to DIN EN 60715 (previously DIN EN 50022) (transverse) or flat rails 10 x 2–2.5 mm (lengthwise).

PA

Neutral conductor terminal, with screwless contacts, 12 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBN12x02GRBL	Grey/blue	10	4.500	2016265

Neutral conductor connection terminal with 12 plug-in terminals, 2.5 mm² or 1.5 mm², flexible with wire end sleeve; two plug-in terminals, 4 mm² and 2.5 mm², flexible with wire end sleeve and two screw connection terminals up to 25 mm² or 16 mm², flexible, 3 Nm. For snapping onto 15 mm hat rails according to DIN EN 60715 (formerly DIN EN 50022).



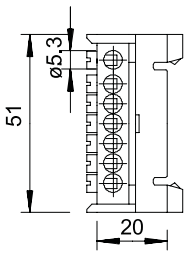


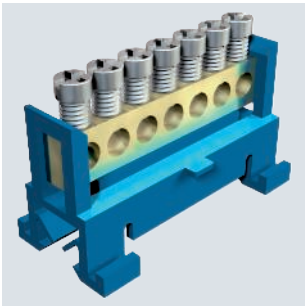
PA

Neutral conductor terminals, with screw contacts, 7 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 N 7x16 BL	Blue	10	2.900	2054000

Neutral conductor connection terminal with 7 terminals up to 16 mm².
Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 mm hat rails to DIN EN 60715 - previously DIN EN 50022 - (transverse) or flat rails 10 x 2-2.5 mm (lengthwise).



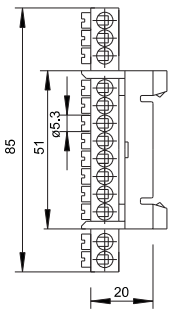


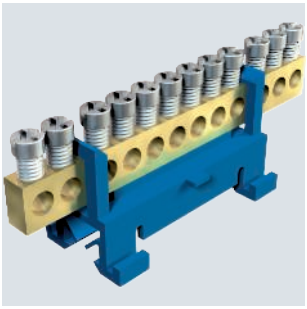
PA

Neutral conductor terminals, with screw contacts, 12 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 N 12x16 BL	Blue	10	4.200	2054086

Neutral conductor connection terminal with 12 terminals up to 16 mm².
Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 mm hat rails to DIN EN 60715 - previously DIN EN 50022 - (transverse) or flat rails 10 x 2-2.5 mm (lengthwise).





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Cable glands V-TEC VM and V-TEC VM L

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO.

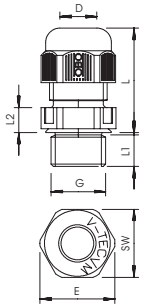
- Fast and convenient means of cable entry for junction boxes and housings
- With the integrated sealing lip and the special OBO lamella technology, protection class IP68 is achieved
- Strain relief and tightness have been tested to DIN EN 62444
- The connecting threads are metric and are therefore suitable for universal use
- Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet
- Temperature range: –20 °C to +65 °C

PA

Cable gland, metric thread, long, light grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM L12 LGR	Light grey	500	50	0.392	2022943
V-TEC VM L16 LGR	Light grey	500	50	0.727	2022945
V-TEC VM L20 LGR	Light grey	600	50	0.883	2022947
V-TEC VM L25 LGR	Light grey	300	25	1.597	2022949
V-TEC VM L32 LGR	Light grey	240	20	2.047	2022951
V-TEC VM L40 LGR	Light grey	120	10	3.168	2022953
V-TEC VM L50 LGR	Light grey	60	5	5.010	2022955
V-TEC VM L63 LGR	Light grey	60	5	7.390	2022957

Cable gland with metric connection thread in cap nut design, suitable for junction boxes, housings, distributor cabinets in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C.



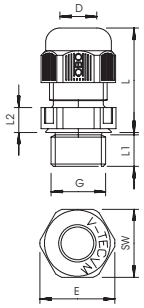


PA

Cable gland, long metric thread, silver grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM L16 SGR	Silver grey	500	50	0.727	2022924
V-TEC VM L20 SGR	Silver grey	600	50	0.883	2022926
V-TEC VM L25 SGR	Silver grey	300	25	1.597	2022928
V-TEC VM L32 SGR	Silver grey	240	20	2.047	2022930
V-TEC VM L40 SGR	Silver grey	120	10	3.168	2022933
V-TEC VM L50 SGR	Silver grey	60	5	5.010	2022935
V-TEC VM L63 SGR	Silver grey	60	5	7.390	2022937

Cable gland with metric connection thread in cap nut design, suitable for junction boxes, housings, distributor cabinets in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C.



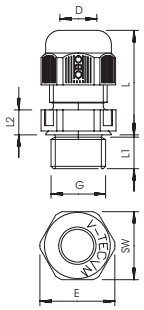


PA

Cable gland, long metric thread, black

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM L12 SW	Black	500	50	0.392	2022964
V-TEC VM L16 SW	Black	500	50	0.727	2022966
V-TEC VM L25 SW	Black	300	25	1.597	2022970

Cable gland with metric connection thread in cap nut design, suitable for junction boxes, housings, distributor cabinets in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C.





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Cable gland, metric thread, extra long, black

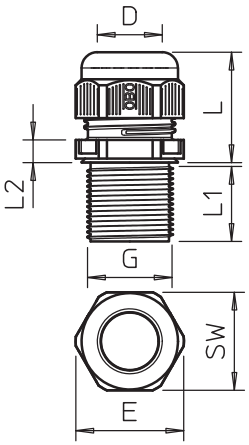
PA



Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM LL16 SW	Black	500	50	0.800	**2022985**
V-TEC VM LL20 SW	Black	600	50	1.000	**2022987**
V-TEC VM LL25 SW	Black	300	25	1.700	**2022989**
V-TEC VM LL32 SW	Black	240	20	2.200	**2022991**
V-TEC VM LL40 SW	Black	120	10	2.200	**2022993**
V-TEC VM LL50 SW	Black	60	5	5.500	**2022995**

Cable gland with metric connection thread in cap nut design, suitable for junction boxes, housings, distributor cabinets in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C.

Dimensions



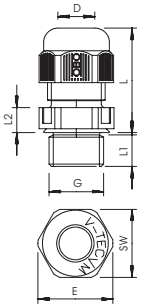
Type	Thread	Sealing range D mm	SW mm	Dim. E mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	In-stal-lation torque Nm
V-TEC VM LL16 SW	M16 x 1,5	4.5 - 10	20	22	20.5	29.5	24	5	2.5
V-TEC VM LL20 SW	M20 x 1,5	6 - 13	24	27	22.5	32.5	24	5	3.75
V-TEC VM LL25 SW	M25 x 1,5	9 - 17	29	32	25.5	36	24	6	5
V-TEC VM LL32 SW	M32 x 1,5	15 - 21	36	41	28	40	24	6	7.5
V-TEC VM LL40 SW	M40 x 1,5	16 - 28	44	50	36	46	24	7	10
V-TEC VM LL50 SW	M50 x 1,5	23 - 35	54	60	37.5	54.3	24	8	12

PA

Cable gland, metric thread, light grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 LGR	Light grey	500	50	0.318	2022862
V-TEC VM16 LGR	Light grey	500	50	0.638	2022864
V-TEC VM20 LGR	Light grey	600	50	0.856	2022866
V-TEC VM25 LGR	Light grey	300	25	1.360	2022868
V-TEC VM32 LGR	Light grey	240	20	2.235	2022870
V-TEC VM40 LGR	Light grey	120	10	3.467	2022872
V-TEC VM50 LGR	Light grey	60	5	5.466	2022874
V-TEC VM63 LGR	Light grey	60	5	8.306	2022876

Cable gland with metric connection thread in cap nut design, suitable for junction boxes, housings, distributor boxes in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C.



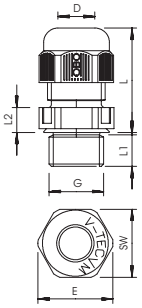


PA

Cap nut cable gland, metric thread, silver grey

Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM16 SGR	M16 x 1,5	Silver grey	50	0.638	2022845
V-TEC VM20 SGR	M20 x 1,5	Silver grey	50	0.856	2022847
V-TEC VM25 SGR	M25 x 1,5	Silver grey	25	1.360	2022849
V-TEC VM32 SGR	M32 x 1,5	Silver grey	20	2.230	2022851
V-TEC VM40 SGR	M40 x 1,5	Silver grey	10	3.467	2022853
V-TEC VM50 SGR	M50 x 1,5	Silver grey	5	5.466	2022855
V-TEC VM63 SGR	M63 x 1,5	Silver grey	5	8.306	2022857

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. With the integrated sealing lip and the special OBO lamella technology, protection class IP68 is achieved. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads of the cable glands are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: –20 °C to +65 °C.



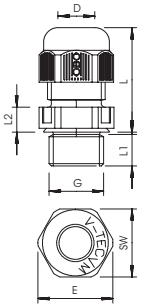


PA

Cable gland, metric thread, black

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 SW	Black	500	50	0.318	2022883
V-TEC VM16 SW	Black	500	50	0.638	2022885
V-TEC VM20 SW	Black	600	50	0.856	2022887
V-TEC VM25 SW	Black	300	25	1.360	2022889
V-TEC VM32 SW	Black	240	20	2.230	2022891
V-TEC VM40 SW	Black	120	10	3.467	2022893

Cable gland with metric connection thread in cap nut design, suitable for junction boxes, housings, distributor boxes in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C.



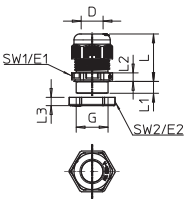


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Cable gland, metric thread, set with locknut, light grey

PA





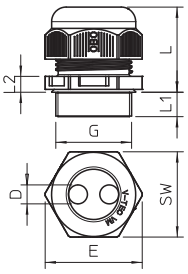
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12+ LGR	Light grey	600	50	0.337	**2022762**
V-TEC VM16+ LGR	Light grey	500	50	0.795	**2022764**
V-TEC VM20+ LGR	Light grey	600	50	1.106	**2022766**
V-TEC VM25+ LGR	Light grey	300	25	1.710	**2022768**
V-TEC VM32+ LGR	Light grey	240	20	2.840	**2022770**
V-TEC VM40+ LGR	Light grey	120	10	5.150	**2022772**
V-TEC VM50+ LGR	Light grey	60	5	6.356	**2022774**
V-TEC VM63+ LGR	Light grey	60	5	10.136	**2022776**

Cable gland with metric connection thread in cap nut design, suitable for junction boxes, housings, distributor cabinets in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C. Including locknut.

Cable gland, metric thread with multi-way seal insert, light grey

PA





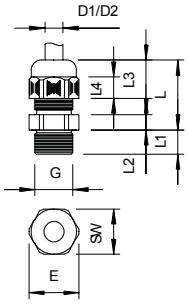
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM32 2x8	Light grey	240	20	2.240	**2022136**

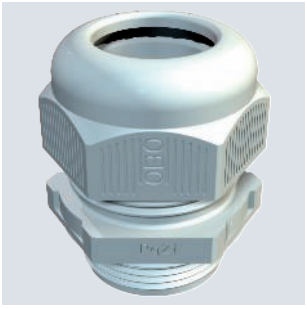
Cable gland with metric connection thread in cap nut design, suitable for junction boxes, housings, distributor cabinets in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C.

PA

Cable gland, PG thread, silver grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC PG7 SGR	Silver grey	500	50	0.410	2022605
V-TEC PG9 SGR	Silver grey	500	50	0.630	2022613
V-TEC PG11 SGR	Silver grey	500	50	0.890	2022621
V-TEC PG13.5 SGR	Silver grey	400	50	1.020	2022648
V-TEC PG16 SGR	Silver grey	250	25	1.380	2022656
V-TEC PG21 SGR	Silver grey	300	25	2.290	2022664
V-TEC PG29 SGR	Silver grey	240	20	4.020	2022672
V-TEC PG36 SGR	Silver grey	120	10	6.040	2022680
V-TEC PG42 SGR	Silver grey	60	5	7.650	2022699



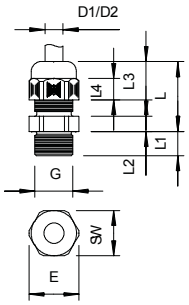


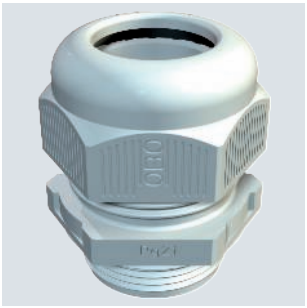
Cable gland with PG connection thread in cap nut design, suitable for junction boxes, housings, distributor boxes in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20°C and +65°C.

PA

Cable gland, PG thread, light grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC PG7 LGR	Light grey	500	50	0.410	2024705
V-TEC PG9 LGR	Light grey	500	50	0.630	2024713
V-TEC PG11 LGR	Light grey	500	50	0.890	2024721
V-TEC PG13 LGR	Light grey	400	50	1.020	2024748
V-TEC PG16 LGR	Light grey	250	25	1.380	2024756
V-TEC PG21 LGR	Light grey	300	25	2.290	2024764
V-TEC PG29 LGR	Light grey	240	20	4.020	2024772
V-TEC PG36 LGR	Light grey	120	10	6.030	2024780
V-TEC PG42 LGR	Light grey	60	5	7.650	2024799
V-TEC PG48 LGR	Light grey	60	5	9.460	2024802



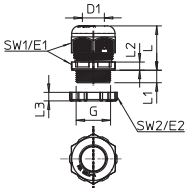


Cable gland with PG connection thread in cap nut design, suitable for junction boxes, housings, distributor boxes in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20°C and +65°C.

PA

Cable gland, PG thread, set with locknut, light grey

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC PG7+ LGR	Light grey	600	50	0.503	2024655
V-TEC PG9+ LGR	Light grey	500	50	0.799	2024657
V-TEC PG11+ LGR	Light grey	500	50	1.074	2024659
V-TEC PG13,5+LGR	Light grey	400	50	1.276	2024661
V-TEC PG16+ LGR	Light grey	250	25	1.705	2024663
V-TEC PG21+ LGR	Light grey	300	25	2.756	2024665
V-TEC PG29+ LGR	Light grey	240	20	5.120	2024667
V-TEC PG36+ LGR	Light grey	120	10	7.713	2024669
V-TEC PG42+ LGR	Light grey	60	5	9.406	2024671
V-TEC PG48+ LGR	Light grey	60	5	11.290	2024673





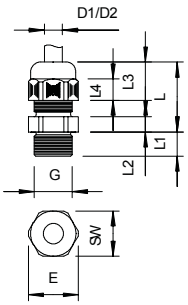
Cable gland with PG connection thread in cap nut design, suitable for junction boxes, housings, distributor boxes in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20°C and +65°C. Including locknut.

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Cable gland, long PG thread, silver grey

PA





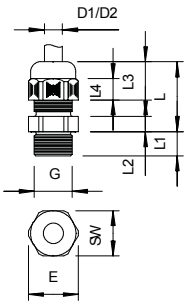
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC L PG11 SGR	Silver grey	500	50	0.930	**2024195**
V-TEC L PG13 SGR	Silver grey	600	50	1.090	**2024209**
V-TEC L PG16 SGR	Silver grey	250	25	1.490	**2024217**
V-TEC L PG21 SGR	Silver grey	300	25	2.330	**2024225**

Cable gland with PG connection thread in cap nut design, suitable for junction boxes, housings, distributor boxes in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C.

Cable gland, long PG thread, light grey

PA





Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC L PG7 LGR	Light grey	500	50	0.410	**2024284**
V-TEC L PG9 LGR	Light grey	500	50	0.670	**2024292**
V-TEC L PG11 LGR	Light grey	500	50	0.930	**2024306**
V-TEC L PG13 LGR	Light grey	600	50	1.090	**2024314**
V-TEC L PG16 LGR	Light grey	250	25	1.490	**2024322**
V-TEC L PG21 LGR	Light grey	300	25	2.330	**2024330**
V-TEC L PG29 LGR	Light grey	240	20	3.860	**2024349**
V-TEC L PG36 LGR	Light grey	120	10	7.750	**2024357**

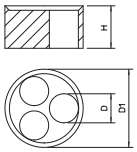
Cable gland with PG connection thread in cap nut design, suitable for junction boxes, housings, distributor boxes in private and industrial areas. With strain relief and integrated sealing lip, tested according to DIN EN 62444. Protection class IP68. Can be used between –20 °C and +65 °C.

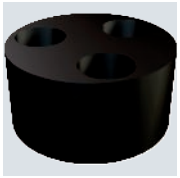
NBR SBR

M

Multi-way seal insert, metric

Type	Size mm	Dim. D mm	Dim. H mm	Dim. D1 mm	Number of drill holes	Pack Piece	Weight kg/100 pc.	Item no.
107 C VM 20 2x4	M20	4	8.1	15.1	2	50	0.130	**2029672**
107 C VM 20 4x5	M20	5	8.1	15.1	4	50	0.080	**2029675**
107 C VM 20 2x6	M20	6	8.1	15.1	2	50	0.100	**2029677**
107 C VM 25 5x4	M25	4	10	19.8	5	50	0.180	**2029679**
107 C VM 25 3x6	M25	6	10	19.8	3	50	0.210	**2029682**
107 C VM 25 3x7	M25	7	10	19.8	3	50	0.180	**2029688**
107 C VM 32 4x8	M32	8	13.4	25.1	4	25	0.400	**2029696**





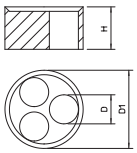
Use to insert multiple thin cables in the V-TEC VM cable glands, is replaced with the simple sealing ring of the cable gland.

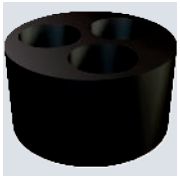
NBR SBR

Pg

Multi-way seal insert, PG

Type	Size mm	Dim. D mm	Dim. H mm	Dim. D1 mm	Number of drill holes	Pack Piece	Weight kg/100 pc.	Item no.
107 C V 16 5x4	Pg 16	4	9.5	17.5	5	50	0.205	**2029618**
107 C V 16 3x5	Pg 16	5	9.5	17.5	3	50	0.210	**2029626**
107 C V 16 2x6	Pg 16	6	9.5	17.5	2	50	0.210	**2029634**
107 C V 16 3x6	Pg 16	6.5	9.5	17.5	3	50	0.155	**2029642**
107 C V 21 3x7	Pg 21	7	12	23	3	25	0.450	**2029650**
107 C V 21 2x8	Pg 21	8	12	23	2	25	0.340	**2029669**





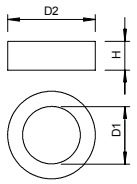
Use to insert multiple thin cables in the V-TEC cable glands, is replaced with the simple sealing ring of the cable gland.

CR/ NBR

M

Reducing sealing insert, metric

Type	Size mm	Sealing range D mm	Dim. D1 mm	Dim. D2 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107CR VM 12	M12	2-5	5	8.9	7.2	50	0.050	**2029560**
107CR VM 16	M16	2.5-7	7	12.7	8.1	50	0.115	**2029563**
107CR VM 20	M20	4-9	9	16	9.3	50	0.205	**2029566**
107CR VM 25	M25	6-13	13	20.7	10.5	50	0.340	**2029569**





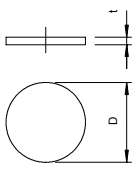
Reduces the sealing area D of the cable gland V-TEC VM and V-TEC VM L.

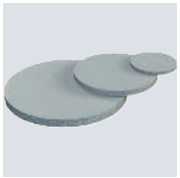
ZELL PC

Pg

Dust protection plate, PG

Type	Size mm	Dim. D mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 S VTEC PG36	Pg 36	44	3	100	0.035	**2028972**





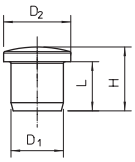
Cellular polyethylene.
Small protective disc to protect the V-TEC and V-TEC MS cable glands against dust before the cable is installed.
Application: the discs are pre-mounted between the cap nut and the seal. They do not need to be removed when the cable is installed, but are simply passed through to the interior with the cable.
Note: the discs do not provide any mechanical protection.

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Screw plug, metric and PG

PA





Type	Size	Dim. D1 mm	Dim. L mm	Dim. D2 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107VS VM 5 PA	M12 / Pg9	5.5	9	10	12.5	50	0.047	**2029511**
107VS VM 9 PA	M16 / Pg13,5	9.5	12	13.5	16	50	0.090	**2029514**
107VS VM 12 PA	M20 / Pg16	12	12	16.5	16.5	50	0.130	**2029517**
107VS VM 16 PA	M25 / Pg21	16	15	20.5	19.5	50	0.190	**2029520**
107VS VM 20 PA	M32 / Pg29	20	17	24.5	21.5	25	0.250	**2029523**
107VS VM 27 PA	M40 / Pg36	27	20	32	24	10	0.353	**2029529**
107VS VM 35 PA	M50 / Pg42	35	25	39	29	5	0.500	**2029533**

Screw plug in for dust-proof and waterproof closure of installed but (as yet) unfilled V-TEC... cable glands.



Separable cable glands

The separable cable gland allows easy and quick installation, for example, of pre-terminated cables with connectors. In an existing installation, a missing or defective cable gland can be replaced or supplemented without dismantling and interruption.

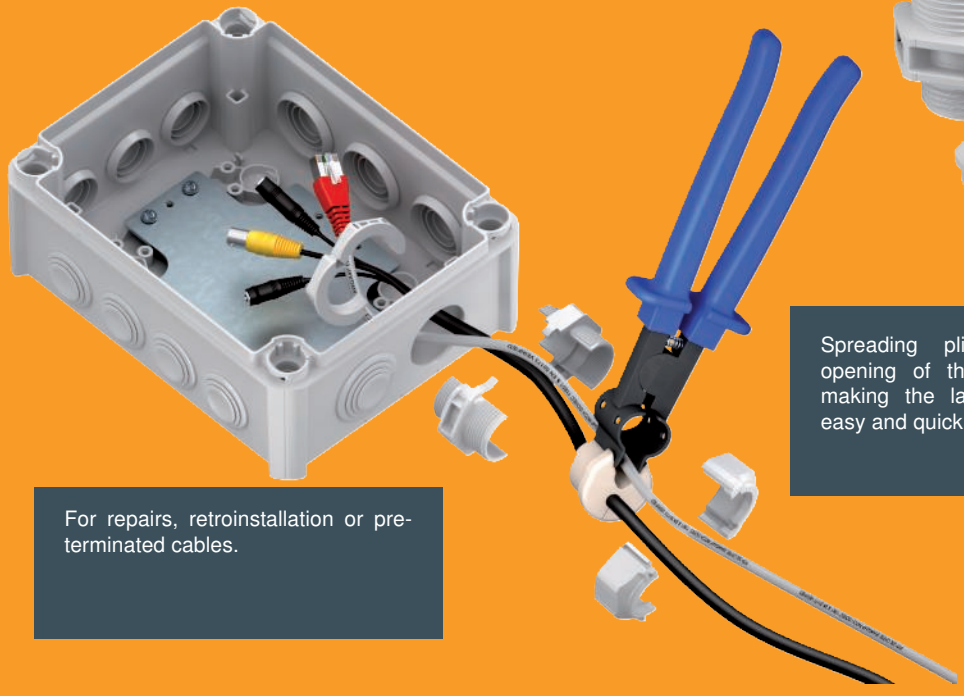


M20

M25

M30

IP 67



For repairs, retroinstallation or pre-terminated cables.

Spreading pliers for the best opening of the sealing inserts – making the laying of each cable easy and quick.

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Divisible cable gland, seal insert enclosed, light grey

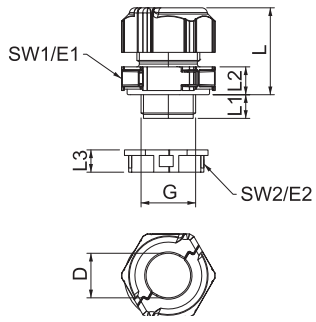
PC
IP 67 | M | M20 | UV RESISTANT



Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB20	Light grey	50	5	2.236	**2024940**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	SW mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm
V-TEC TB20	30	24.5	30.5	10	8.5

Divisible cable gland, seal insert enclosed, light grey

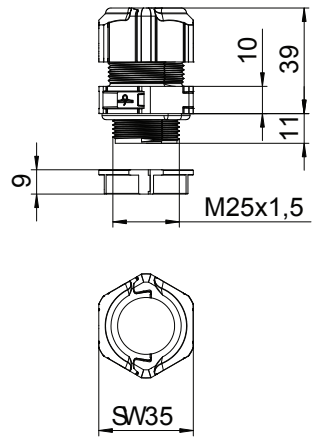
PC
IP 67 | M | M25 | UV RESISTANT



Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB25	Light grey	50	5	3.440	**2024910**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	SW mm	Dim. E mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm
V-TEC TB25	–	–	31.5	40	11	10

PC

IP 67 | M | M32 | 650° | UV RESISTANT

Divisible cable gland, seal insert enclosed, light grey

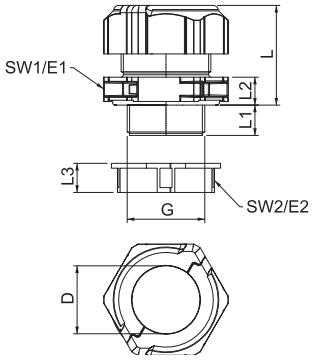
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB32	Light grey	60	5	7.756	**2024970**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.



Type	SW mm	Dim. E mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm
V-TEC TB32	46	51.5	32	41	14	10

Dimensions



PC

IP 67 | M | M20 | 650° | UV RESISTANT

Divisible cable gland, seal insert, 1 cable, light grey

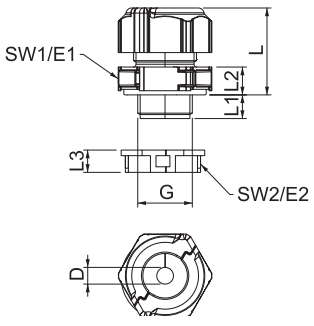
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB20 06-08	Light grey	50	5	2.133	**2024942**
V-TEC TB20 08-10	Light grey	50	5	2.063	**2024944**
V-TEC TB20 09-13	Light grey	50	5	1.973	**2024946**
V-TEC TB20 11-14	Light grey	50	5	1.853	**2024948**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.



Type	Sealing range D mm	SW 1 mm	SW 2 mm	Dim. L1 mm	Dim. L2 mm	Dim. L mm
V-TEC TB20 06-08	6 - 8	30	27	10	8.5	30
V-TEC TB20 08-10	8 - 10.5	30	27	10	8.5	30
V-TEC TB20 09-13	9 - 13	30	27	10	8.5	30
V-TEC TB20 11-14	11.5 - 14.5	30	27	10	8.5	30

Dimensions



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Divisible cable gland, seal insert, 1 cable, light grey

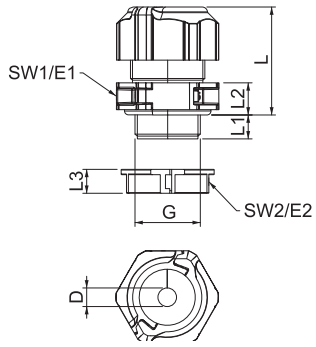
PC
IP 67 M M25 650° UV RESISTANT



Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB25 09-11	Light grey	50	5	2.900	**2024913**
V-TEC TB25 11-13	Light grey	50	5	3.110	**2024916**
V-TEC TB25 14-18	Light grey	50	5	2.510	**2024922**
V-TEC TB25 18-20	Light grey	50	5	2.290	**2024925**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	Sealing range D mm	SW 1 mm	SW 2 mm	Dim. L1 mm	Dim. L2 mm	Dim. L mm
V-TEC TB25 09-11	9 - 11	35	31	11	10	41
V-TEC TB25 11-13	11 - 13	35	31	11	10	41
V-TEC TB25 14-18	14 - 18	35	31	11	10	41
V-TEC TB25 18-20	18 - 20	35	31	11	10	41

Divisible cable gland, seal insert, 1 cable, light grey

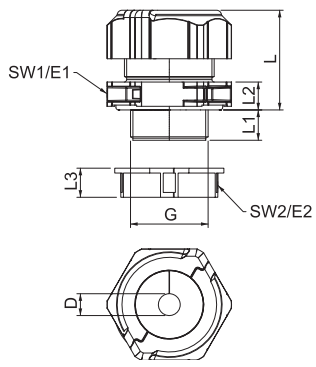
PC
IP 67 M M32 650° UV RESISTANT



Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB32 09-13	Light grey	60	5	7.416	**2024972**
V-TEC TB32 11-15	Light grey	60	5	7.246	**2024974**
V-TEC TB32 14-18	Light grey	60	5	7.069	**2024976**
V-TEC TB32 17-20	Light grey	60	5	7.156	**2024978**
V-TEC TB32 20-25	Light grey	60	5	6.396	**2024980**
V-TEC TB32 24-26	Light grey	60	5	6.026	**2024982**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	Sealing range D mm	SW 1 mm	SW 2 mm	Dim. L1 mm	Dim. L2 mm	Dim. L mm
V-TEC TB32 09-13	9 - 13	46	40	14	10	41
V-TEC TB32 11-15	11.5 - 15.5	46	40	14	10	41
V-TEC TB32 14-18	14 - 18	46	40	14	10	41
V-TEC TB32 17-20	17 - 20.5	46	40	14	10	41
V-TEC TB32 20-25	20 - 25	46	40	14	10	41
V-TEC TB32 24-26	24 - 26.5	46	40	14	10	41

PC

IP 67 | M | M20 | 650° | UV RESISTANT

Separable cable gland, sealing insert, multiple, light grey

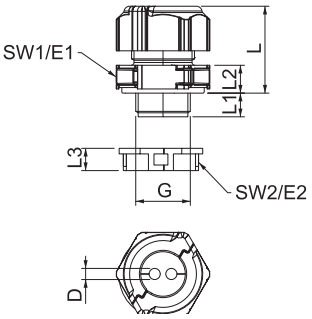
Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB20 2x4	Light grey	50		5	2.187	**2024950**
V-TEC TB20 2x5	Light grey	50		5	2.153	**2024952**
V-TEC TB20 2x6	Light grey	50		5	2.113	**2024954**
V-TEC TB20 4x4	Light grey	50		5	2.123	**2024956**
V-TEC TB20 6x4	Light grey	50		5	2.083	**2024958**



The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Type	Number of drill holes	Dim. D mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. E1 mm	SW 1 mm
V-TEC TB20 2x4	2	4	24.5	30.5	10	8.5	33.5	30
V-TEC TB20 2x5	2	5	24.5	30.5	10	8.5	33.5	30
V-TEC TB20 2x6	2	6	24.5	30.5	10	8.5	33.5	30
V-TEC TB20 4x4	4	4	24.5	30.5	10	8.5	33.5	30
V-TEC TB20 6x4	6	4	24.5	30.5	10	8.5	33.5	30

Dimensions



PC

IP 67 | M | M25 | 650° | UV RESISTANT

Separable cable gland, sealing insert, multiple, light grey

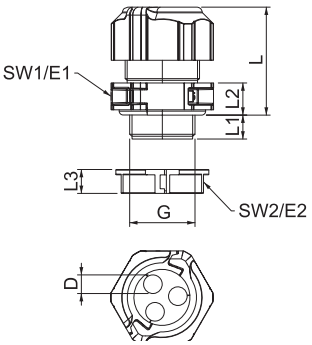
Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB25 3x7	Light grey	50		5	2.449	**2024927**
V-TEC TB25 3x9	Light grey	50		5	2.640	**2024928**
V-TEC TB25 4x5	Light grey	50		5	2.539	**2024929**
V-TEC TB25 4x6	Light grey	50		5	2.439	**2024930**
V-TEC TB25 4x8	Light grey	50		5	2.950	**2024931**



The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Type	Number of drill holes	Dim. D mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. E1 mm	SW 1 mm
V-TEC TB25 3x7	3	7	31.5	40	11	10	39	35
V-TEC TB25 3x9	3	9	31.5	40	11	10	39	35
V-TEC TB25 4x5	4	5	31.5	40	11	10	39	35
V-TEC TB25 4x6	4	6	31.5	40	11	10	39	35
V-TEC TB25 4x8	4	8	31.5	40	11	10	39	35

Dimensions



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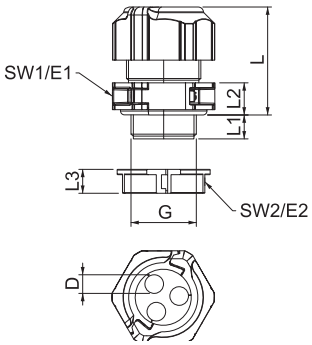
Separable cable gland, sealing insert, multiple, light grey



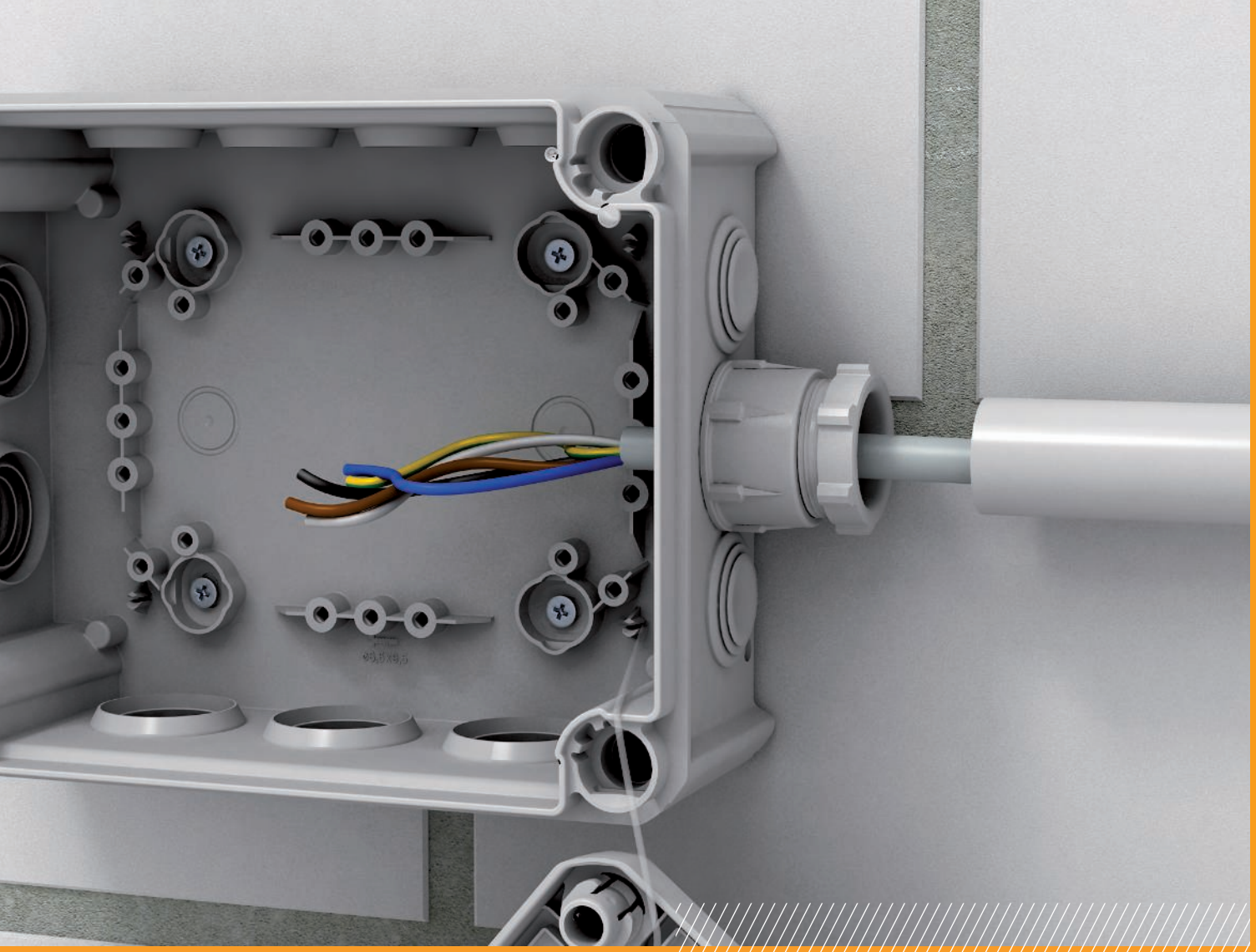
Type	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB32 2x11	Light grey	60		5	7.196	**2024984**
V-TEC TB32 3x9	Light grey	60		5	7.196	**2024986**
V-TEC TB32 3x11	Light grey	60		5	7.196	**2024988**
V-TEC TB32 4x8	Light grey	60		5	7.211	**2024990**
V-TEC TB32 6x6	Light grey	60		5	7.284	**2024992**

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	Number of drill holes	Dim. D mm	Dim. L min. mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	SW 1 mm	Dim. E1 mm
V-TEC TB32 2x11	2	11	32	41	14	10	46	51.5
V-TEC TB32 3x9	3	9	32	41	14	10	46	51.5
V-TEC TB32 3x11	3	11	32	41	14	10	46	51.5
V-TEC TB32 4x8	4	8	32	41	14	10	46	51.5
V-TEC TB32 6x6	6	6	32	41	14	10	46	51.5



Cone cable glands

- Standard cable gland
- Shape A in accordance with DIN 46320 with simple NR/SBR sealing ring
- Metric connecting thread to IEC 423
- Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54
- With PG thread
- With metric thread
- Strain relief



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Cone cable gland, metric thread, light grey

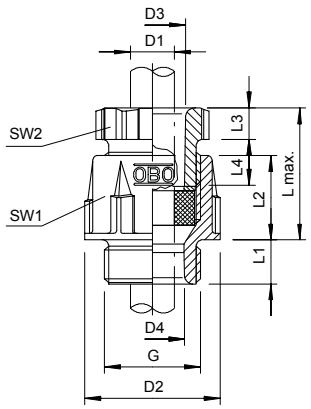
PS
IP 54 IP 65 M



Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 M 32 PS	M32 x 1,5	Light grey	10	2.891	**2035359**

Standard cable gland, shape A, to DIN 46320 with simple NR/SBR sealing ring with metric connection thread to IEC 423.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.
Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

Dimensions



Type	Thread	Sealing range D mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	SW 1 mm	SW 2 mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm	Dim. L4 mm
106 M 32 PS	M32 x 1,5	18 - 25	47.5	30.3	26	42	40	42	11	20.5	8	18

Cone cable gland, PG thread, light grey

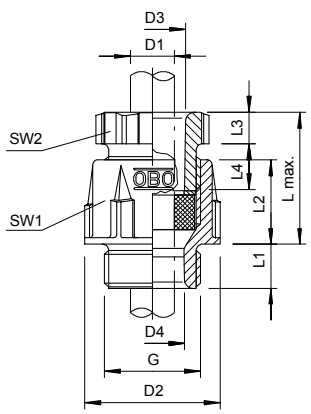
PS
IP 54 IP 65 Pg



Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 PG13.5	Pg 13,5	Light grey	50	0.794	**2036134**
106 PG16	Pg 16	Light grey	50	1.003	**2036169**

Standard cable gland, shape A, to DIN 46320 with simple NR/SBR sealing ring.
PG connection thread in accordance with DIN 40430.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.
Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

Dimensions



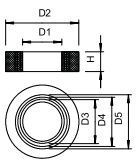
Type	Thread	Sealing range D mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	SW 1 mm	SW 2 mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm	Dim. L4 mm
106 PG13.5	Pg 13,5	9 - 13	27	13.4	13.5	24	21	28	9	16	5	10.8
106 PG16	Pg 16	10 - 14	30	16	8	27	23	30	10	16.5	6	12

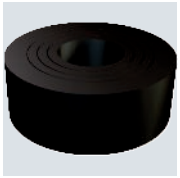
NBR SBR

Pg

Cutting ring

Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107 B PG9	Pg 9	5	13.3	7.5	10	12.5	5.5	100	0.090	**2029103**
107 B PG11	Pg 11	7.5	16.5	10	12.5	15	6	100	0.132	**2029111**
107 B PG16	Pg 16	7.5	20.4	10	12.5	15	7	100	0.265	**2029162**





Rubber cutting ring (cuttable sealing ring) to DIN 46320 for cone cable gland.

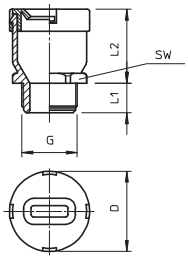
Flat cable gland

PE

IP 31 M

Flat cable threaded connection, metric thread M20, stone grey

Type	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 FL M20 8 19	M20	6-8	17-19	Stone grey	50	0.909	**2013002**





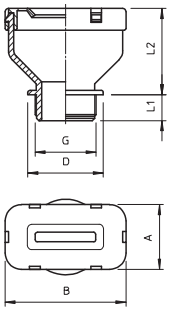
Flat-cable entry, choke-nipple design with metric connecting thread to IEC 432, protection rating IP31, with pre-mounted support sealing ring 107/F.

PE

IP 31 M

Flat cable threaded connection, metric thread M25, stone grey

Type	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 FL M25 6 30	M25	4-6	27-30	Stone grey	25	2.630	**2013006**
106 FL M25 8 33	M25	6-8	30-33	Stone grey	25	2.630	**2013007**
106 FL M25 9 22	M25	7-9	19-22	Stone grey	25	2.630	**2013008**
106 FL M25 9 39	M25	7-9	36-39	Stone grey	25	1.816	**2013009**
106 FL M25 10 29	M25	8-10	26-29	Stone grey	25	2.630	**2013010**
106 FL M25 10 31	M25	8.5-10.5	28.5-31.5	Stone grey	25	2.630	**2013011**
106 FL M25 12 35	M25	9-12	31-35	Stone grey	25	2.630	**2013012**
106 FL M25 14 40	M25	11-14	37-40	Stone grey	25	2.680	**2013013**





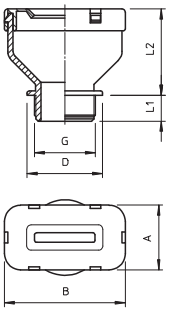
Flat-cable entry, choke-nipple design with metric connecting thread to IEC 432, protection rating IP31, with pre-mounted support sealing ring 107/F.

PE

IP 31 M

Flat cable threaded connection, metric thread M32, stone grey

Type	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 FL M32 8 33	M32	6-8	30-33	Stone grey	15	3.450	**2013016**
106 FL M32 9 22	M32	7-9	19-22	Stone grey	15	3.450	**2013017**
106 FL M32 9 39	M32	7-9	36-39	Stone grey	15	3.450	**2013018**
106 FL M32 10 29	M32	8-10	26-29	Stone grey	15	3.450	**2013019**
106 FL M32 14 40	M32	11-14	37-40	Stone grey	15	3.500	**2013022**



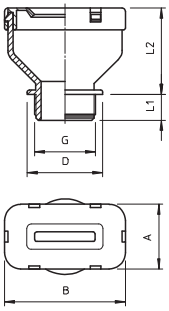


Flat-cable entry, choke-nipple design with metric connecting thread to IEC 432, protection rating IP31, with pre-mounted support sealing ring 107/F.

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Flat cable threaded connection, PG thread rectangular version, stone grey





Type	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
106 FL 21 6 30	Pg 21	4-6	27-30	Stone grey	25	1.905	**2012855**
106 FL 21 8 33	Pg 21	6-8	30-33	Stone grey	25	1.977	**2012782**
106 FL 21 9 22	Pg 21	7-9	19-22	Stone grey	25	1.996	**2012820**
106 FL 21 9 39	Pg 21	7-9	36-39	Stone grey	25	1.975	**2012804**
106 FL 21 10 29	Pg 21	8-10	26-29	Stone grey	25	1.989	**2012839**
106 FL 21 10 31	Pg 21	8.5-10.5	28.5-31.5	Stone grey	25	1.999	**2012871**
106 FL 21 12 35	Pg 21	9-12	31-35	Stone grey	25	1.965	**2012847**
106 FL 21 14 40	Pg 21	11-14	37-40	Stone grey	25	2.015	**2012928**
106 FL 29 14 40	Pg 29	11-14	37-40	Stone grey	15	3.500	**2012774**

Flat-cable entry, choke-nipple design with PG connecting thread to DIN 40430, protection rating IP31, with pre-mounted support sealing ring 107/F.

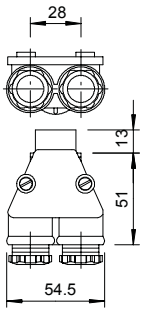
UF

IP 54 Pg

Twin cable gland, PG thread, light grey

Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
113 PG16 LGR	Pg 16	Light grey	5	4.360	**2024160**

With removable polystyrene lid, as well as two connection thread sealing rings made of polyethylene.





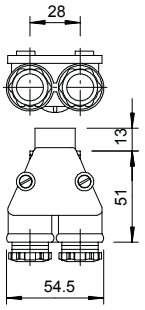
UF

IP 54 M

Twin cable gland, metric thread, light grey

Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
113 M20 LGR	M 20 x 1,5	Light grey	5	3.701	**2024063**

IP54 protection rating, with removable polystyrene lid, as well as two connection thread sealing rings made of polyethylene.
With connection thread M20 x 1.5, 2 half glands PG 13.5 for cable diameter 6.5–10.5 mm.





Locknuts

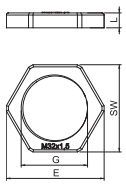
PA

M

Locknut, metric thread

Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 M12 LGR PA	M12 x 1,5	Light grey	17	19	5	100	0.100	**2048906**
116 M16 LGR PA	M16 x 1,5	Light grey	22	25	5	100	0.160	**2048914**
116 M20 LGR PA	M20 x 1,5	Light grey	26	29	6	100	0.173	**2048922**
116 M25 LGR PA	M25 x 1,5	Light grey	32	36	6.5	100	0.297	**2048930**
116 M32 LGR PA	M32 x 1,5	Light grey	41	46	7	50	0.610	**2048949**
116 M40 LGR PA	M40 x 1,5	Light grey	50	56	7	25	1.683	**2048957**
116 M50 LGR PA	M50 x 1,5	Light grey	60	68	8	25	0.890	**2048965**
116 M63 LGR PA	M63 x 1,5	Light grey	75	83	8	25	1.467	**2048973**

Locknut DIN 46319, with metric thread IEC 423.





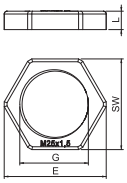
PA

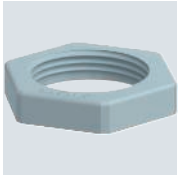
M

Cable outlet, plastic locknut

Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 M16 SGR PA	M16 x 1,5	Silver grey	22	25	5	100	0.125	**2048760**
116 M20 SGR PA	M20 x 1,5	Silver grey	26	29	6	100	0.177	**2048779**
116 M25 SGR PA	M25 x 1,5	Silver grey	32	36	6.5	100	0.266	**2048787**
116 M32 SGR PA	M32 x 1,5	Silver grey	41	46	7	50	0.503	**2048795**
116 M40 SGR PA	M40 x 1,5	Silver grey	50	56	7	25	0.602	**2048809**
116 M50 SGR PA	M50 x 1,5	Silver grey	60	68	8	25	0.903	**2048817**
116 M63 SGR PA	M63 x 1,5	Silver grey	75	83	8	25	1.300	**2048825**

Locknut to DIN 46319, with metric thread IEC 423.





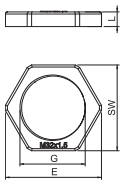
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Locknuts

Locknut, metric thread

PA M



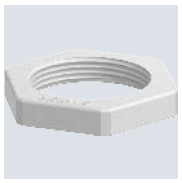


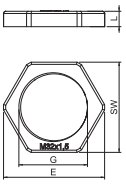
Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 M40 SW PA	M40 x 1,5	Black	50	56	7	25	0.602	**2049112**

Locknut DIN 46319, with metric thread IEC 423.

Locknut, metric thread

PS M





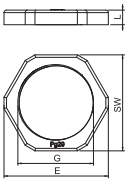
Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 M40 LGR PS	M40 x 1,5	Light grey	50	56	7	25	0.491	**2049562**

Locknut to DIN 46319, with metric thread IEC 423.
Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

Locknut, PG thread

PS Pg





Type	Thread	Colour	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
116 PG 7	Pg 7	Light grey	19	21	5	100	0.099	**2043076**
116 PG 9	Pg 9	Light grey	22	24	5	100	0.118	**2043092**
116 PG11	Pg 11	Light grey	24	26	5	100	0.113	**2043114**
116 PG13.5	Pg 13,5	Light grey	27	29	6	100	0.178	**2043130**
116 PG16	Pg 16	Light grey	30	33	6	100	0.226	**2043165**
116 PG21	Pg 21	Light grey	36	39	7	100	0.346	**2043211**
116 PG29	Pg 29	Light grey	46	50	7	50	0.573	**2043297**
116 PG36	Pg 36	Light grey	60	66	8	25	1.184	**2043351**
116 PG42	Pg 42	Light grey	65	73	8	25	1.089	**2043424**
116 PG48	Pg 48	Light grey	70	78	8	25	1.175	**2043483**

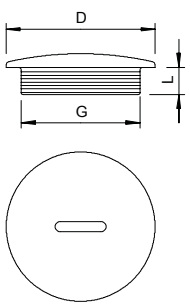
Locknut DIN 46320, with PG thread DIN 40430.
Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

Screw plugs

Screw plug, metric thread

PS M





Type	Thread	Dim. D mm	Dim. L mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
108 M12 PS	M12 x 1,5	15	6	Light grey	3000	100	0.047	**2033003**
108 M16 PS	M16 x 1,5	20	6	Light grey	1800	100	0.085	**2033007**
108 M20 PS	M20 x 1,5	24	6	Light grey	1200	100	0.128	**2033011**
108 M25 PS	M25 x 1,5	30	8	Light grey	1000	100	0.210	**2033016**
108 M32 PS	M32 x 1,5	37	8	Light grey	500	50	0.339	**2033021**
108 M40 PS	M40 x 1,5	46	8	Light grey	300	25	0.564	**2033026**
108 M50 PS	M50 x 1,5	56	10	Light grey	300	25	0.939	**2033032**
108 M63 PS	M63 x 1,5	70	12	Light grey	300	25	1.492	**2033038**

Screw plug in accordance with DIN 46320, with metric thread to IEC 423.

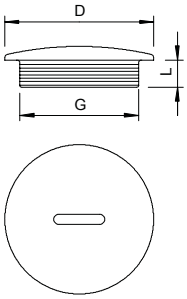
PS

Pg

Screw plug, PG thread

Type	Thread	Dim. D mm	Dim. L mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
108 PG 7	Pg 7	14	6	Light grey	2400	100	0.056	**2033070**
108 PG 9	Pg 9	19	6	Light grey	1800	100	0.096	**2033097**
108 PG11	Pg 11	22	6	Light grey	2000	100	0.128	**2033119**
108 PG13.5	Pg 13,5	25	6.5	Light grey	1200	100	0.164	**2033135**
108 PG16	Pg 16	27	6.5	Light grey	1000	100	0.184	**2033151**
108 PG21	Pg 21	34	8	Light grey	1200	100	0.345	**2033216**
108 PG29	Pg 29	44	8	Light grey	600	50	0.646	**2033291**
108 PG36	Pg 36	58	10	Light grey	200	25	1.057	**2033364**

Screw plug in accordance with DIN 46320, with PG thread to DIN 40430.



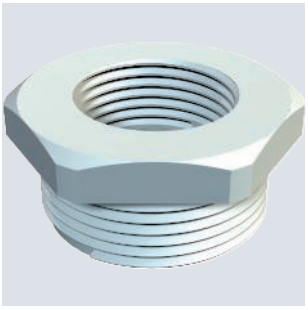


PA

M

Reduction, metric thread

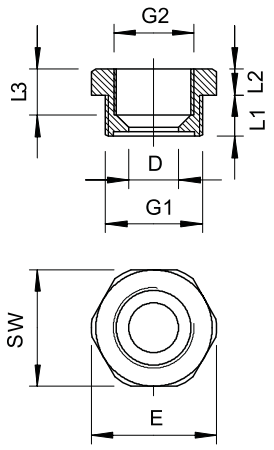
Type	External thread	Internal thread	Colour	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
107 R M20-12 PA	M20	M12	Light grey	24	100	0.500	**2030616**
107 R M20-16 PA	M20	M16	Light grey	24	100	0.700	**2030619**
107 R M25-12 PA	M25	M12	Light grey	29	100	0.850	**2030624**
107 R M25-16 PA	M25	M16	Light grey	29	100	0.850	**2030626**
107 R M25-20 PA	M25	M20	Light grey	29	100	0.650	**2030628**
107 R M32-16 PA	M32	M16	Light grey	36	50	1.100	**2030634**
107 R M32-20 PA	M32	M20	Light grey	36	50	1.050	**2030637**
107 R M32-25 PA	M32	M25	Light grey	36	50	0.783	**2030640**
107 R M40-16 PA	M40	M16	Light grey	46	50	2.000	**2030643**
107 R M40-20 PA	M40	M20	Light grey	46	50	1.850	**2030646**
107 R M40-25 PA	M40	M25	Light grey	46	50	1.950	**2030649**
107 R M40-32 PA	M40	M32	Light grey	46	50	1.400	**2030652**
107 R M50-32 PA	M50	M32	Light grey	55	25	2.200	**2030661**
107 R M50-40 PA	M50	M40	Light grey	55	25	2.050	**2030664**
107 R M63-50 PA	M63	M50	Light grey	68	25	3.000	**2030675**



Reduction, with metric internal and external thread.

Type	SW mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
107 R M20-12 PA	24	26.5	12	8	4	12
107 R M20-16 PA	24	26.5	12	8	4	12
107 R M25-12 PA	29	32	14	8	6	14
107 R M25-16 PA	29	32	14	8	6	14
107 R M25-20 PA	29	32	14	8	6	14
107 R M32-16 PA	36	40	16	10	6	16
107 R M32-20 PA	36	40	16	10	6	16
107 R M32-25 PA	36	40	16	10	6	16
107 R M40-16 PA	46	50.5	16	10	6	16
107 R M40-20 PA	46	50.5	16	10	6	16
107 R M40-25 PA	46	50.5	16	10	6	16
107 R M40-32 PA	46	50.5	16	10	6	16
107 R M50-32 PA	55	60	18	12	6	18
107 R M50-40 PA	55	60	18	12	6	18
107 R M63-50 PA	68	75	18	12	6	18

Dimensions

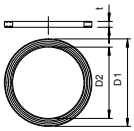


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Connection thread sealing ring, metric

PE
M



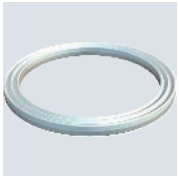


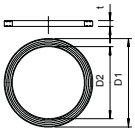
Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 F M12 PE	M12	16.3	12	1	100	0.017	**2030004**
107 F M16 PE	M16	20.9	16	1.1	100	0.015	**2030008**
107 F M20 PE	M20	25.1	20	1.1	100	0.030	**2030012**
107 F M25 PE	M25	31.3	25	1.4	100	0.038	**2030016**
107 F M32 PE	M32	37.6	32	1.7	100	0.105	**2030020**
107 F M40 PE	M40	49.1	40	1.7	100	0.200	**2030024**
107 F M50 PE	M50	60.1	50	2	100	0.250	**2030028**
107 F M63 PE	M63	73.8	63	2	100	0.290	**2030032**

Connection thread sealing ring, suitable for all plastic cable glands, with metric thread according to DIN EN 60423 or ISO 68. The internal diameters of the sealing rings are designed in such a way that they can be pre-mounted in a captive manner.

Connection thread sealing ring, PG

PE
Pg





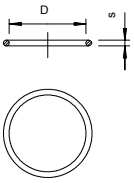
Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 F PG7 PE	Pg 7	16.5	12.1	1.6	100	0.010	**2030071**
107 F PG9 PE	Pg 9	19	14.7	1.6	100	0.013	**2030098**
107 F PG11 PE	Pg 11	23	18	1.8	100	0.022	**2030101**
107 F PG13.5 PE	Pg 13,5	25	19.8	1.8	100	0.030	**2030136**
107 F PG16 PE	Pg 16	27	21.8	1.8	100	0.038	**2030160**
107 F PG21 PE	Pg 21	34	27.5	2.2	100	0.049	**2030217**
107 F PG29 PE	Pg 29	44	36.2	2.2	100	0.105	**2030292**
107 F PG36 PE	Pg 36	55.5	46.2	2.7	100	0.200	**2030365**

Connection thread sealing ring, in accordance with Part 9 to DIN 46320, however, dimensions may, according to material or function, deviate, suitable for all plastic cable glands with PG connection thread to DIN EN 40430, the internal diameter of the sealing rings are designed so that they can be captively pre-mounted.

O sealing ring for PG connection thread

NBR
Pg





Type	Size mm	Dim. D mm	Dim. S mm	Pack Piece	Weight kg/100 pc.	Item no.
171 PG 9	Pg 9	13	1.5	100	0.008	**2088819**
171 PG11	Pg 11	16	1.5	100	0.010	**2088827**
171 PG13.5	Pg 13,5	18	1.5	100	0.011	**2088835**
171 PG16	Pg 16	20	1.5	100	0.012	**2088843**
171 PG21	Pg 21	25	2	100	0.027	**2088851**

O sealing rings, suitable as connection thread sealing rings for all plastic and brass cable glands with Pg connection thread to DIN EN 60423 or ISO 68. The rings can be captively pre-mounted.

Screw-in nipple, metric thread

TPE

IP 54 M

EDS plug-in seal

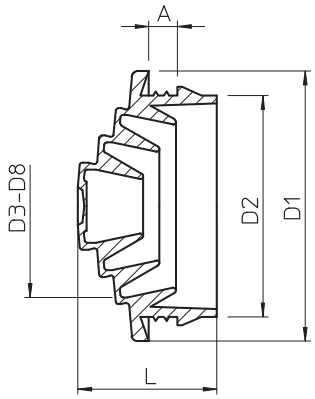
Type	Size	For Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDS M20 SW	M20	0-17	Black	100	0.125	**2012340**
EDS M25 SW	M25	0-22	Black	100	0.193	**2012342**
EDS M32 SW	M32	0-28	Black	50	0.254	**2012344**

The push-in nipple can be cut back to suit the relevant cable diameter.



Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dim. D6 mm	Dim. D7 mm	Dim. D8 mm
EDS M20 SW	12.8	3.1	24.8	20.3	6	10	15	17	–	–
EDS M25 SW	14.5	3.1	29.5	25.3	6	10	15	20	22	–
EDS M32 SW	17.8	3.1	36.3	32.3	6	10	15	20	25	28

Dimensions



TPE

IP 55 M25 M32 M40

Plug-in seal for pipes, T-series junction box, light grey

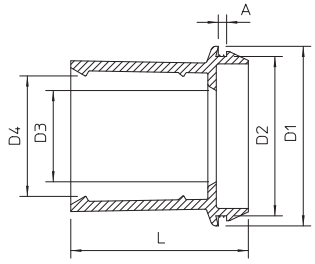
Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDR 25 16-20 LGR	M25	Light grey	50	0.520	**2011506**
EDR 25 20-25 LGR	M25	Light grey	50	0.680	**2011514**

Plug-in seal for junction boxes for direct insertion of metric pipes



Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm
EDR 25 16-20 LGR	30	2.2	29.5	25.3	15	18.4
EDR 25 20-25 LGR	30	2.2	29.5	25.3	18.5	24.2

Dimensions

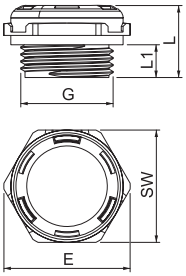


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Pressure compensation component

Pressure compensation element





Type	Thread	Protection rating	Colour	Pack Piece	Weight kg/100 pc.	Item no.
109 M20 LGR	M20 x 1,5	IP68	Light grey	1	0.538	**2034680**

The pressure compensation element, type 109 M20 LGR compensates for pressure differences in junction boxes, small distributors and connection sockets with an M20 opening and avoids the formation of condensation water in sealed housings. The polyamide pressure compensation element has an IP68/IP69 protection rating. This remains intact, even after the installation of the pressure compensation element. The pressure compensation element is suitable for use in industrial environments and in exterior areas.

Pressure screws

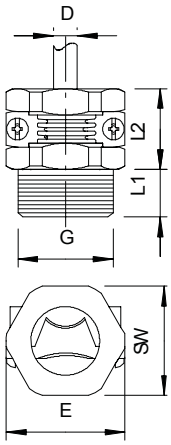
Pressure screw, PG strain relief 107

PA



Type	Thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
107 Z PG21 PA	Pg 21	Light grey	25	1.800	**2023210**
107 Z PG29 PA	Pg 29	Light grey	25	3.000	**2023296**

Dimensions

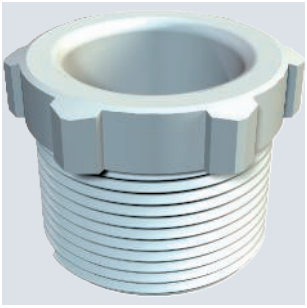


Type	SW mm	Dim. E mm	Dim. L1 mm	Dim. L2 mm
107 Z PG21 PA	32	34	12.5	23.5
107 Z PG29 PA	42	45	16	30

PS

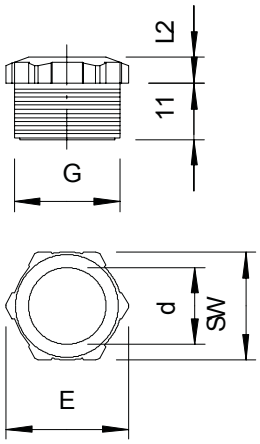
Pressure screw, PG thread

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
107 E PG36 PS	Light grey	25	1.612	**2025361**



Type	Thread	Dim. D mm	SW mm	Dim. E mm	Dim. L1 mm	Dim. L2 mm
107 E PG36 PS	Pg 36	38.2	50	56.5	17	8

Dimensions

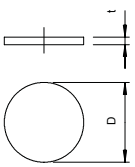


PVC

Pg

Sealing plate, PG

Type	Size mm	Dim. D mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 V PG11 PVC	Pg 11	16.5	0.5	100	0.030	**2029723**
107 V PG13.5 PVC	Pg 13,5	18.5	0.5	100	0.038	**2029731**
107 V PG16 PVC	Pg 16	20.5	0.5	100	0.048	**2029758**
107 V PG21 PVC	Pg 21	26	0.5	100	0.075	**2029766**
107 V PG29 PVC	Pg 29	35	1	100	0.135	**2029774**

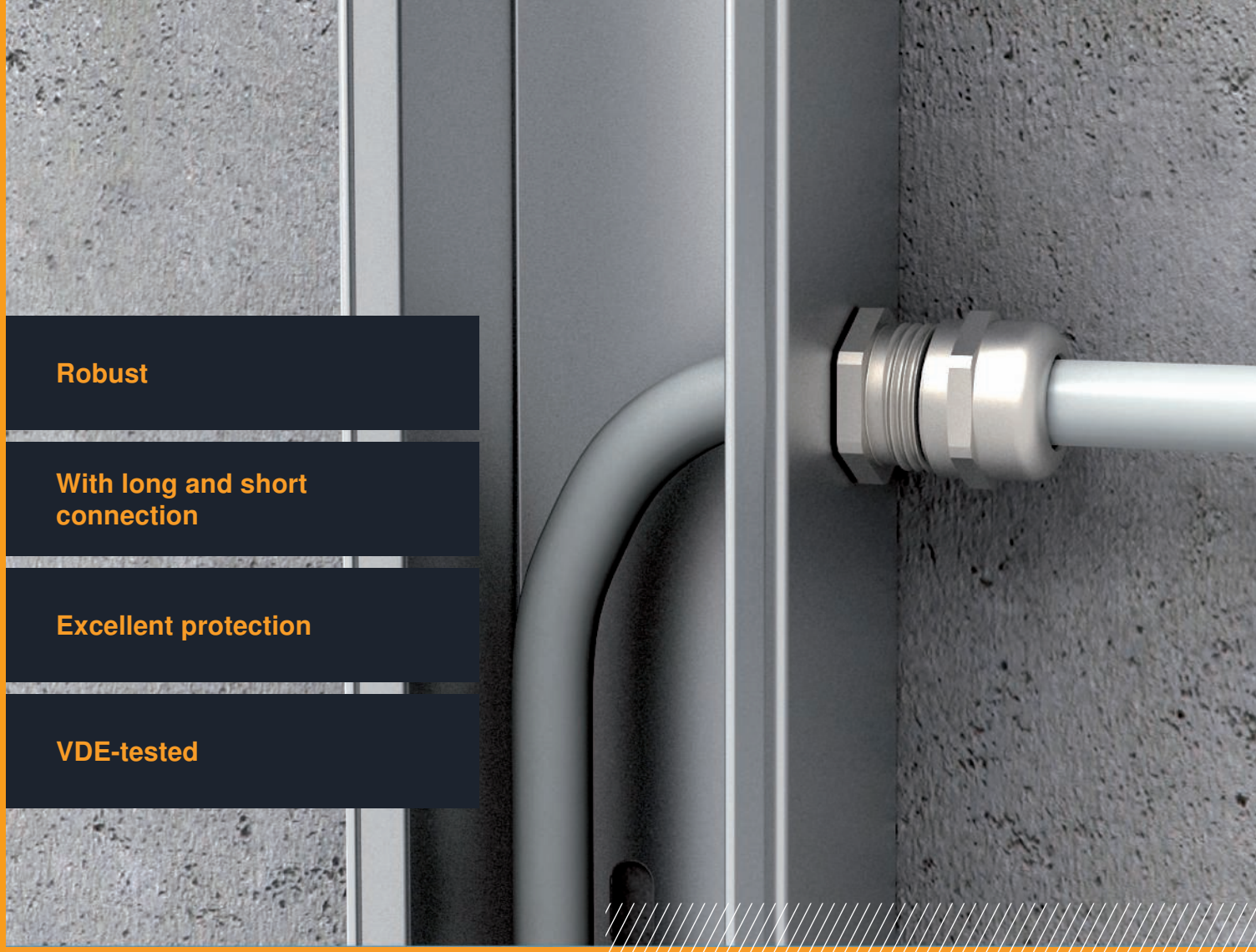




The sealing plate offers both mechanical protection and the maintenance of the protection rating of plastic and metal cable glands to DIN 46320 before cable installation.
Application: the discs are placed between the pressure screw and the pressure ring. If the safe maintenance of IP65 is required, we recommend placing the discs between the pressure ring and the sealing ring. To mount the cable, remove the discs – they can be reused.

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Robust

With long and short connection

Excellent protection

VDE-tested

Cap nut cable gland V-TEC VM MS

Tough conditions are no problem for the brass V-TEC VM. Here too, the well-known V-TEC cap nut design of the cable glands ensures a secure hold of the cables. The protection class IP68 is achieved using separate sealing rings and their special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation will stay secure for a long time to come. The optimum thread adjustment with the right pitch ensures permanent resistance to shaking.
Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.



CuZn 37 N
IP 68 M

Cap nut cable gland, metric thread, silver grey, nickel-plated

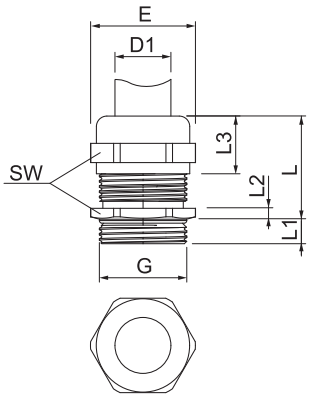
Type	Thread	Material		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 MS	M12 x 1,5	Brass		50	1.305	**2086018**
V-TEC VM16 MS	M16 x 1,5	Brass		50	1.640	**2086024**
V-TEC VM20 MS	M20 x 1,5	Brass		25	3.140	**2086030**
V-TEC VM25 MS	M25 x 1,5	Brass		25	4.260	**2086036**
V-TEC VM32 MS	M32 x 1,5	Brass		20	8.457	**2086042**
V-TEC VM40 MS	M40 x 1,5	Brass		5	12.240	**2086048**
V-TEC VM50 MS	M50 x 1,5	Brass		5	22.700	**2086054**
V-TEC VM63 MS	M63 x 1,5	Brass		5	30.300	**2086060**



With metric connecting thread to IEC 423, robust cap-nut cable gland with large sealing area. Strain relief, wringing protection and tightness over the whole clamping area. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted O sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP68 at 5 bar for 1 hr, max. permitted ambient temperature -20 to +100 °C.
* Prices according to DEL notation.

Type	Sealing range D mm	SW mm	Dim. E mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
V-TEC VM12 MS	3-6	14	15.5	20	5	3	11.5
V-TEC VM16 MS	5-9	17	19	24	5	3	15
V-TEC VM20 MS	9-13	22	24	27	6	3.5	16.5
V-TEC VM25 MS	11-16	27	30	29.5	7	4	17
V-TEC VM32 MS	14-21	34	36	30	8	4.5	18.5
V-TEC VM40 MS	19-27	43	46	33	8	4.5	21
V-TEC VM50 MS	24-35	55	60	38.5	9	4.5	25
V-TEC VM63 MS	32-42	65	70	44.5	10	5	31

Dimensions



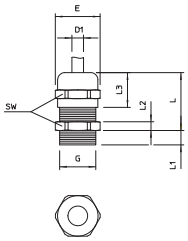
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Cap nut cable gland, brass

Cap nut cable gland, PG thread, nickel-plated

CuZn 37 | N | IP 68 | Pg





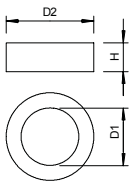
Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC PG7 MS	Brass		50	1.044	**2085607**
V-TEC PG9 MS	Brass		50	1.600	**2085615**
V-TEC PG11 MS	Brass		50	2.300	**2085623**
V-TEC PG13 MS	Brass		50	2.800	**2085631**
V-TEC PG16 MS	Brass		25	3.400	**2085658**
V-TEC PG21 MS	Brass		25	6.000	**2085666**
V-TEC PG29 MS	Brass		20	13.000	**2085674**
V-TEC PG36 MS	Brass		10	21.195	**2085682**
V-TEC PG42 MS	Brass		5	23.500	**2085690**
V-TEC PG48 MS	Brass		5	31.500	**2085704**

Cable gland of cap-nut design with large sealing area, and strain relief and torsion protection for high sealing demands with Pg connection thread to DIN 40430, polyamide terminal insert, sealing ring of chloroprene/nitrile rubber, with pre-mounted O ring on the connection thread.
Protection rating IP 68 at 5 bar: 1 hr, tested to VDE 0619.
"Normal" connection thread length, according to DIN 46320.
* Prices according to DEL notation.

Reducing sealing insert, metric

CR/ NBR | M



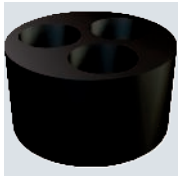


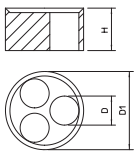
Type	Size mm	Sealing range D mm	Dim. D1 mm	Dim. D2 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107CR VM 12	M12	2-5	5	8.9	7.2	50	0.050	**2029560**
107CR VM 16	M16	2.5-7	7	12.7	8.1	50	0.115	**2029563**
107CR VM 20	M20	4-9	9	16	9.3	50	0.205	**2029566**
107CR VM 25	M25	6-13	13	20.7	10.5	50	0.340	**2029569**

Reduces the sealing area D of the cable gland V-TEC VM and V-TEC VM L.

Multi-way seal insert, PG

NBR SBR | Pg



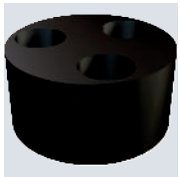


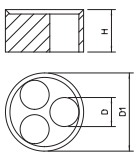
Type	Size mm	Dim. D mm	Dim. H mm	Dim. D1 mm	Number of drill holes	Pack Piece	Weight kg/100 pc.	Item no.
107 C V 16 5x4	Pg 16	4	9.5	17.5	5	50	0.205	**2029618**
107 C V 16 3x5	Pg 16	5	9.5	17.5	3	50	0.210	**2029626**
107 C V 16 2x6	Pg 16	6	9.5	17.5	2	50	0.210	**2029634**
107 C V 16 3x6	Pg 16	6.5	9.5	17.5	3	50	0.155	**2029642**
107 C V 21 3x7	Pg 21	7	12	23	3	25	0.450	**2029650**
107 C V 21 2x8	Pg 21	8	12	23	2	25	0.340	**2029669**

Use to insert multiple thin cables in the V-TEC cable glands, is replaced with the simple sealing ring of the cable gland.

Multi-way seal insert, metric

NBR SBR | M





Type	Size mm	Dim. D mm	Dim. H mm	Dim. D1 mm	Number of drill holes	Pack Piece	Weight kg/100 pc.	Item no.
107 C VM 20 2x4	M20	4	8.1	15.1	2	50	0.130	**2029672**
107 C VM 20 4x5	M20	5	8.1	15.1	4	50	0.080	**2029675**
107 C VM 20 2x6	M20	6	8.1	15.1	2	50	0.100	**2029677**
107 C VM 25 5x4	M25	4	10	19.8	5	50	0.180	**2029679**
107 C VM 25 3x6	M25	6	10	19.8	3	50	0.210	**2029682**
107 C VM 25 3x7	M25	7	10	19.8	3	50	0.180	**2029688**
107 C VM 32 4x8	M32	8	13.4	25.1	4	25	0.400	**2029696**

Use to insert multiple thin cables in the V-TEC VM cable glands, is replaced with the simple sealing ring of the cable gland.

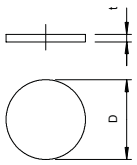
ZELL PC

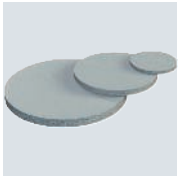
Pg

Dust protection plate, PG

Type	Size mm	Dim. D mm	Dim. t mm		Pack Piece	Weight kg/100 pc.	Item no.
107 S VTEC PG36	Pg 36	44	3		100	0.035	**2028972**

Cellular polyethylene.
Small protective disc to protect the V-TEC and V-TEC MS cable glands against dust before the cable is installed.
Application: the discs are pre-mounted between the cap nut and the seal. They do not need to be removed when the cable is installed, but are simply passed through to the interior with the cable.
Note: the discs do not provide any mechanical protection.







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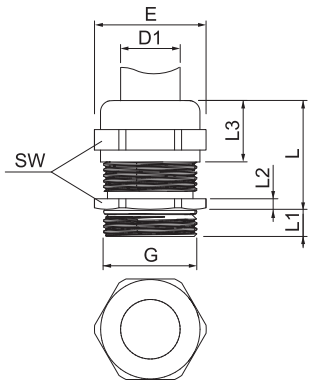
Cap nut cable gland, EMC, metric thread, nickel-plated



Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM12 EMV	Brass		50	1.362	**2086203**
V-TEC VM20 EMV	Brass		25	3.473	**2086211**
V-TEC VM25 EMV	Brass		25	5.280	**2086215**
V-TEC VM32 EMV	Brass		20	7.662	**2086219**
V-TEC VM40 EMV	Brass		5	12.880	**2086223**
V-TEC VM50 EMV	Brass		5	26.165	**2086227**
V-TEC VM63 EMV	Brass		5	33.990	**2086231**

With metric connecting thread to IEC 423, robust EMV cap-nut cable gland with large sealing area. Strain relief, wringing protection and tightness over the whole clamping area. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted O sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar for 1 hr.
* Prices according to DEL notation.

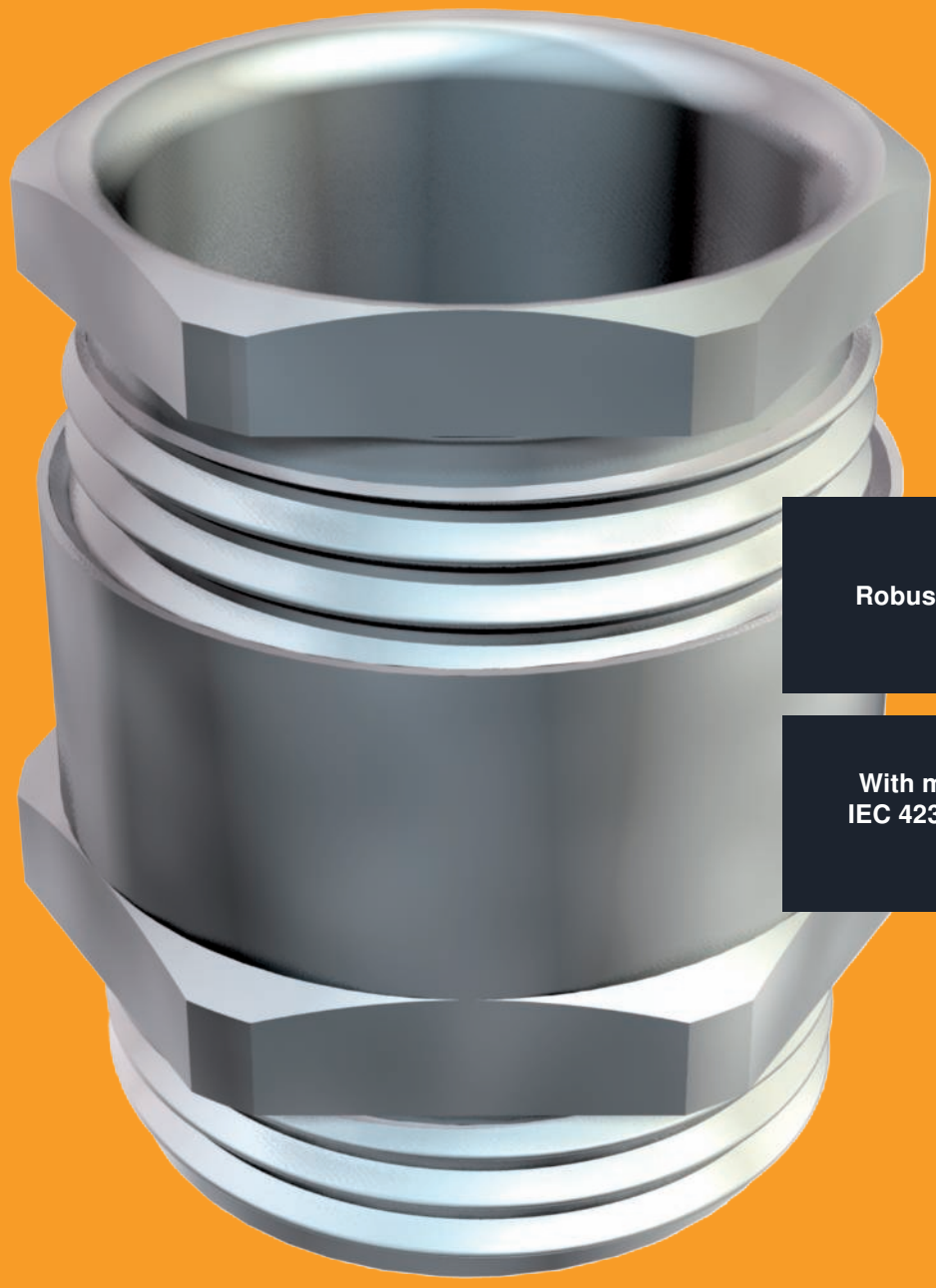
Dimensions



Type	Sealing range D mm	SW mm	Dim. E mm	Dim. L max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
V-TEC VM12 EMV	3-6	14	15.5	25	5	3	11.5
V-TEC VM20 EMV	9-13	22	24	33.5	6	3.5	16.5
V-TEC VM25 EMV	11-16	27	30	36.5	7	3.5	16.5
V-TEC VM32 EMV	14-21	34	38	42	8	4.5	18.5
V-TEC VM40 EMV	19-27	43	46	49.5	8	4.5	21
V-TEC VM50 EMV	24-35	55	60	49.5	9	4.5	25
V-TEC VM63 EMV	32-42	65	70	52.5	10	6.5	26

Cone cable glands, brass

Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with metric connection thread to DIN EN 60423 and ISO 68.



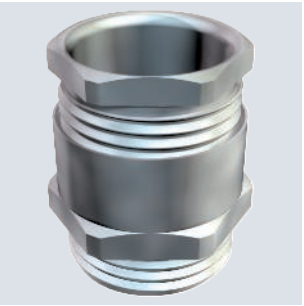
Robust EMC cap-nut cable gland

With metric connecting thread to IEC 423 for meeting high tightness requirements

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Cone cable gland, metric thread, cutting ring, nickel-plated

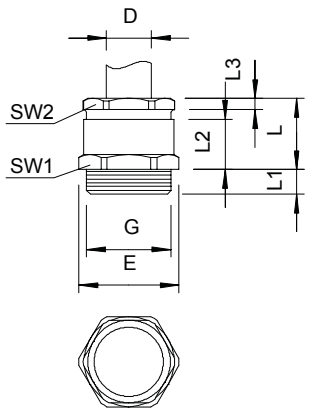
CuZn 37 | N | IP 54 | IP 65 | M



Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
162 MS M12	Brass		50	1.200	**2083706**
162 MS M25	Brass		25	3.388	**2083720**

Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with metric connection thread to DIN EN 60423 and ISO 68. Pressure rings made of electrogalvanised and transparently passivated steel. NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.
With cutting ring.
* Prices according to DEL notation.

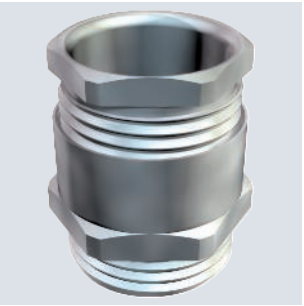
Dimensions



Type	Sealing range D mm	SW 1 mm	SW 2 mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
162 MS M12	5-7	14	13	15.5	15	7	16	2.5
162 MS M25	10-20.5	32	28	35.5	22	8	22	2.5

Cone cable gland, PG thread, cutting ring, nickel-plated

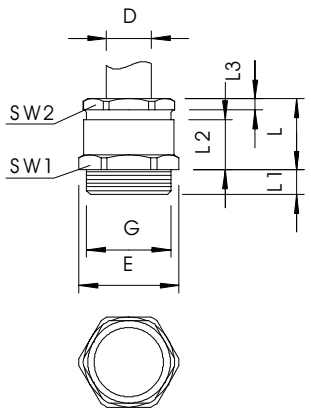
CuZn 37 | N | IP 54 | IP 65 | Pg



Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
162 MS PG 7	Brass		50	1.000	**2082620**
162 MS PG11	Brass		50	1.960	**2082500**

Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with Pg connection thread to DIN 40430.
Pressure rings made of electrogalvanised and transparently passivated steel.
NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.
With cutting ring.
* Prices according to DEL notation.

Dimensions



Type	Sealing range D mm	Dim. E mm	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
162 MS PG 7	3.5-8	15.5	15	5	9	2
162 MS PG11	7.5-11.5	22.2	17	6	11	3

CuZn 37 | N | IP 54 | IP 65 | Pg

Cone cable gland, PG thread, strain relief, nickel-plated

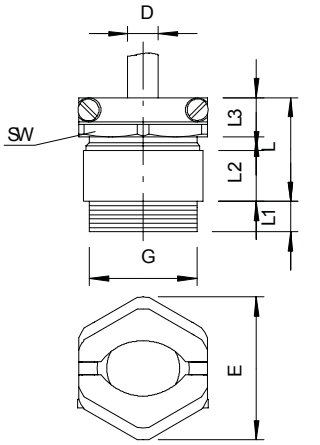
Type	Material	Surface	Pack Piece	Weight kg/100 pc.	Item no.
159 MS PG13.5	Brass	Nickel-plated	50	3.830	**2046121**
159 MS PG16	Brass	Nickel-plated	25	5.700	**2046164**



Cable gland with centrically acting transverse clip strain relief in the pressure screw, bend protection of movable cables through strongly rounded pressure screw.
With Pg connection thread to DIN 40430.
Pressure rings made of electrogalvanised and transparently passivated steel.
NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.
With hexagonal intermediate support (similar to shape C 4 to DIN 46320).
* Prices according to DEL notation.

Type	Sealing range D mm	Dim. E mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
159 MS PG13.5	8-10	27	6.5	12.5	11.3
159 MS PG16	8-10	29	6.5	13.5	11.8

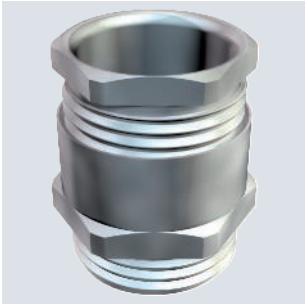
Dimensions



CuZn 37 | N | IP 54 | IP 65 | M

Cone cable gland, metric thread, small cutting ring, nickel-plated

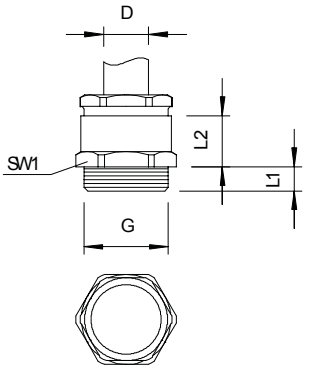
Type	Material	Surface	Pack Piece	Weight kg/100 pc.	Item no.
163 MS M20	Brass	Nickel-plated	25	2.210	**2083639**



Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with metric connection thread to DIN EN 60423 and ISO 68. Pressure rings made of electrogalvanised and transparently passivated steel.
NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.
With simple sealing ring, with small internal diameter.
* Prices according to DEL notation.

Type	Sealing range D mm	SW 1 mm	Dim. E mm	Dim. L1 mm	Dim. L2 mm
163 MS M20	8-10	22	24.4	7	12.5

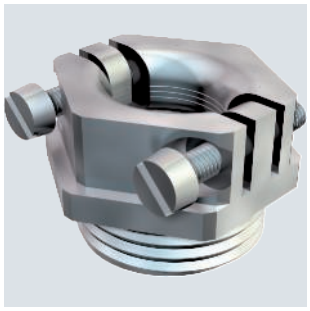
Dimensions



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Pressure screw, PG strain relief

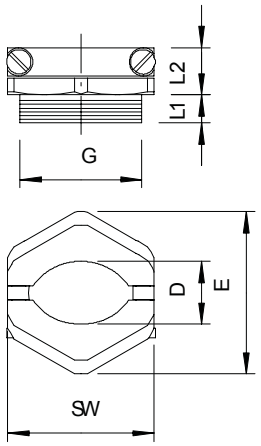
CuZn 37 N
Pg



Type	Thread	Pack Piece	Weight kg/100 pc.	Item no.
157 MS PG21	Pg 21	50	4.500	**2013215**
157 MS PG29	Pg 29	25	9.156	**2013290**

Pressure screw with centrically acting transverse clip strain relief, rust-proof stainless steel screws.
With bend protection and strain relief.
* Prices according to DEL notation.

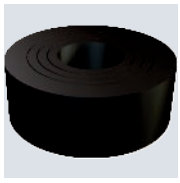
Dimensions

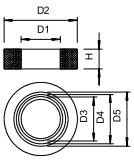


Type	Dim. D mm	SW mm	Dim. E mm	Dim. L1 mm	Dim. L2 mm
157 MS PG21	38	33	38	7.5	13.3
157 MS PG29	–	42	46.5	8	13.8

Cutting ring

NBR SBR
Pg





Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107 B PG9	Pg 9	5	13.3	7.5	10	12.5	5.5	100	0.090	**2029103**
107 B PG11	Pg 11	7.5	16.5	10	12.5	15	6	100	0.132	**2029111**
107 B PG16	Pg 16	7.5	20.4	10	12.5	15	7	100	0.265	**2029162**

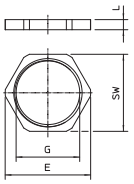
Rubber cutting ring (cuttable sealing ring) to DIN 46320 for cone cable gland.

CuZn 37 N

M

Locknut, metric thread

Type	Thread	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
169 MS M12	M12 x 1,5	15	16.6	3	100	0.220	**2091607**
169 MS M16	M16 x 1,5	20	22.1	3	100	0.310	**2091615**
169 MS M20	M20 x 1,5	24	25.6	3	100	0.580	**2091623**
169 MS M25	M25 x 1,5	30	33.2	3.5	100	0.880	**2091631**
169 MS M32	M32 x 1,5	35	38.7	4	100	1.016	**2091658**
169 MS M40	M40 x 1,5	45	49.8	4.5	50	1.920	**2091666**
169 MS M50	M50 x 1,5	55	60.4	5.5	50	3.070	**2091674**
169 MS M63	M63 x 1,5	70	77.6	6	25	5.628	**2091682**





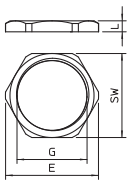
Locknut to DIN 46319 with metric thread IEC 423.
* Prices according to DEL notation.

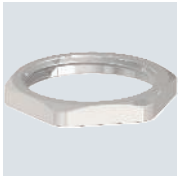
CuZn 37 N

Pg

Locknut, PG thread

Type	Thread	SW mm	Dim. E mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
169 MS PG 7	Pg 7	15	16.6	2.8	100	0.180	**2091070**
169 MS PG 9	Pg 9	18	20	2.8	100	0.260	**2091097**
169 MS PG11	Pg 11	21	23.5	3	100	0.290	**2091119**
169 MS PG13.5	Pg 13,5	23	25.5	3	100	0.364	**2091135**
169 MS PG16	Pg 16	26	29	3	100	0.460	**2091151**
169 MS PG21	Pg 21	32	35.5	3.5	100	0.720	**2091216**
169 MS PG29	Pg 29	41	45	4	100	1.320	**2091291**
169 MS PG36	Pg 36	51	56	5	50	2.100	**2091364**
169 MS PG42	Pg 42	60	65	5	50	3.266	**2091429**
169 MS PG48	Pg 48	64	69	5.5	25	3.270	**2091488**





Locknuts, part M to DIN 46320 with Pg thread to DIN 40430. * Price according to DEL notation.

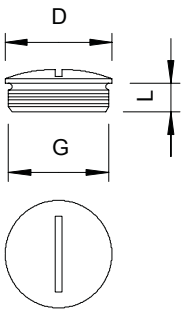
Screw plugs

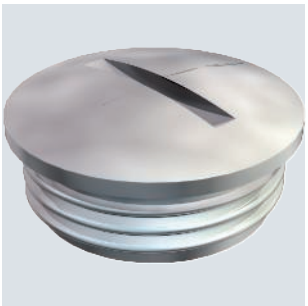
CuZn 37 N

M

Screw plug, metric thread

Type	Thread	Dim. D mm	Dim. L mm	Material	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
168 MS M20	M20 x 1,5	22	6.5	Brass	1000	100	0.930	**2090546**
168 MS M40	M40 x 1,5	44	8	Brass	100	50	5.290	**2090570**





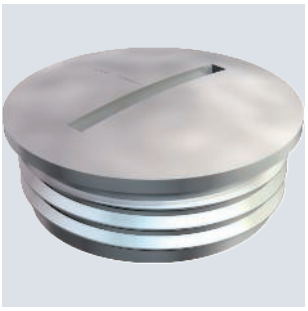
Screw plug N in accordance with DIN 46320, with metric thread to DIN EN 60423 or ISO 68.
In conjunction with sealing ring, types 107, 170 or 171, protection rating IP68 (5 bar/1 hr).
Sealing ring not contained in the scope of delivery.
* Prices according to DEL notation.

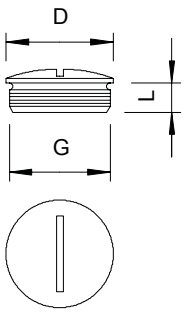
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Screw plugs

Screw plug, PG thread

CuZn 37 N
Pg





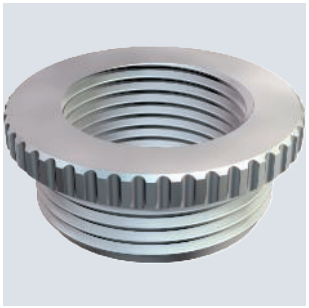
Type	Thread	Dim. D mm	Dim. L mm	Material	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
168 MS PG 9	Pg 9	17	6	Brass	2000	100	0.530	**2090090**
168 MS PG11	Pg 11	20	6	Brass	1000	100	0.840	**2090112**
168 MS PG13	Pg 13,5	22	6.5	Brass	1000	100	0.930	**2090139**
168 MS PG16	Pg 16	24	6.5	Brass	1000	100	1.300	**2090163**

Screw plug N in accordance with DIN 46320, with PG thread to DIN 40430.
In conjunction with sealing ring, types 107, 170 or 171, protection rating IP68 (5 bar/1 hr).
Sealing ring not contained in the scope of delivery.
* Prices according to DEL notation.

Reducers

Reduction, metric thread

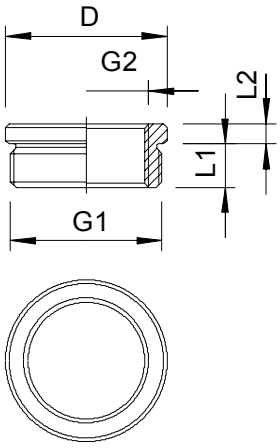
CuZn 37 N
M



Type	External thread	Internal thread	Dim. D mm	Thread length mm	Dim. L2 mm	Pack Piece	Weight kg/100 pc.	Item no.
167 R MS M20-16	M20	M16	24	6.5	3.5	50	1.134	**2089521**
167 R MS M25-20	M25	M20	30	7	3	50	2.102	**2089556**
167 R MS M32-20	M32	M20	39	8	3.5	50	6.120	**2089564**
167 R MS M50-40	M50	M40	57	10	4	25	10.250	**2089610**

Reduction (Part H) in accordance with DIN 46320, with metric thread to DIN EN 60423 or ISO 68.
* Prices according to DEL notation.

Dimensions



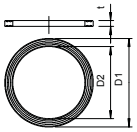
Type	Dim. L1 mm	Dim. L2 mm	Dim. D mm
167 R MS M20-16	6.5	3.5	24
167 R MS M25-20	7	3	30
167 R MS M32-20	8	3.5	39
167 R MS M50-40	10	4	57

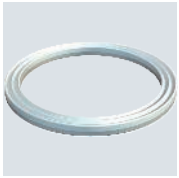
PE

Pg

Connection thread sealing ring, PG

Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 F PG7 PE	Pg 7	16.5	12.1	1.6	100	0.010	**2030071**
107 F PG9 PE	Pg 9	19	14.7	1.6	100	0.013	**2030098**
107 F PG11 PE	Pg 11	23	18	1.8	100	0.022	**2030101**
107 F PG13.5 PE	Pg 13,5	25	19.8	1.8	100	0.030	**2030136**
107 F PG16 PE	Pg 16	27	21.8	1.8	100	0.038	**2030160**
107 F PG21 PE	Pg 21	34	27.5	2.2	100	0.049	**2030217**
107 F PG29 PE	Pg 29	44	36.2	2.2	100	0.105	**2030292**
107 F PG36 PE	Pg 36	55.5	46.2	2.7	100	0.200	**2030365**





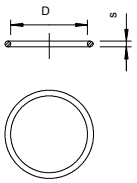
Connection thread sealing ring, in accordance with Part 9 to DIN 46320, however, dimensions may, according to material or function, deviate, suitable for all plastic cable glands with PG connection thread to DIN EN 40430, the internal diameter of the sealing rings are designed so that they can be captively pre-mounted.

NBR

Pg

O sealing ring for PG connection thread

Type	Size mm	Dim. D mm	Dim. S mm	Pack Piece	Weight kg/100 pc.	Item no.
171 PG 9	Pg 9	13	1.5	100	0.008	**2088819**
171 PG11	Pg 11	16	1.5	100	0.010	**2088827**
171 PG13.5	Pg 13,5	18	1.5	100	0.011	**2088835**
171 PG16	Pg 16	20	1.5	100	0.012	**2088843**
171 PG21	Pg 21	25	2	100	0.027	**2088851**





O sealing rings, suitable as connection thread sealing rings for all plastic and brass cable glands with Pg connection thread to DIN EN 60423 or ISO 68. The rings can be captively pre-mounted.

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Metal pipe systems



Protection against mechanical loads
OBO metal pipes are particularly suited to use under tough industrial conditions. They provide reliable protection against very heavy mechanical loads during cable routing.
The different material and surface qualities, from galvanised to painted, allow perfect adaptation to the requirements of the appropriate environment.

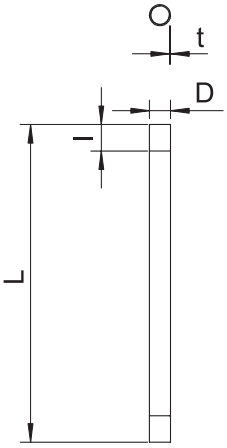


Maintenance of electrical function to E30/E90
Our steel pipes guarantee the maintenance of electrical function to E30/E90. They are thus ideal for the connection of safety-relevant equipment, such as smoke extraction systems.

St G
M E30 E90

Electrogalvanised steel pipe, with thread

Type	Thread	Dim. D mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
SM16W G	M16x1,5	16	3000	13	1.3	30	50.390	**2046861**
SM20W G	M20x1,5	20	3000	13	1.5	30	66.667	**2046862**
SM25W G	M25x1,5	25	3000	18	1.5	30	92.290	**2046863**
SM32W G	M32x1,5	32	3000	18	1.5	21	120.000	**2046864**
SM40W G	M40x1,5	40	3000	20.5	1.5	15	151.450	**2046865**
SM50W G	M50x1,5	50	3000	25	1.5	15	190.000	**2046866**
SM63W G	M63x1,5	63	3000	25	1.7	9	287.700	**2046867**





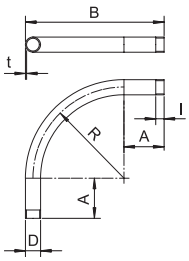
5 | 5 | 5 | 7 | 1

Electrical installation pipe according to EN 61386-1 with threaded ends to EN 60423 for mechanical protection of cables.
With burr-free inner wall. One coupling is already screwed onto each pipe.

St G
M E30 E90

Electrogalvanised steel bend, with thread

Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. l mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBNM16 G	M16x1,5	45	103	16	13	50	1.4	15	10.400	**2046778**
SBNM20 G	M20x1,5	55	155	20	13	90	1.6	25	21.000	**2046779**
SBNM25 G	M25x1,5	68	190	25	18	110	1.6	25	33.000	**2046780**
SBNM32 G	M32x1,5	88	254	32	18	150	1.6	20	56.600	**2046781**
SBNM40 G	M40x1,5	89	279	40	20.5	170	1.6	15	77.600	**2046782**
SBNM50 G	M50x1,5	133	358	50	25	200	1.6	5	125.800	**2046783**



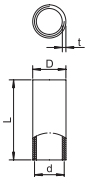


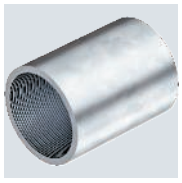
90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.
One connection sleeve is already screwed onto each pipe bend.

St G
M E30 E90

Electrogalvanised steel sleeve, with thread

Type	Thread	Dim. D mm	Dim. d mm	Dim. L mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SVM16W G	M16x1,5	18.5	16	26	2	25	2.110	**2046875**
SVM20W G	M20x1,5	22.5	20	30	2	50	3.000	**2046876**
SVM25W G	M25x1,5	27.5	25	40	2	50	5.030	**2046877**
SVM32W G	M32x1,5	35.5	32	45	2.5	50	8.800	**2046878**
SVM40W G	M40x1,5	43.5	40	45	2.5	25	11.370	**2046879**
SVM50W G	M50x1,5	53.5	50	54	2.5	10	16.970	**2046880**
SVM63W G	M63x1,5	68	63	60	3.2	5	30.670	**2046881**



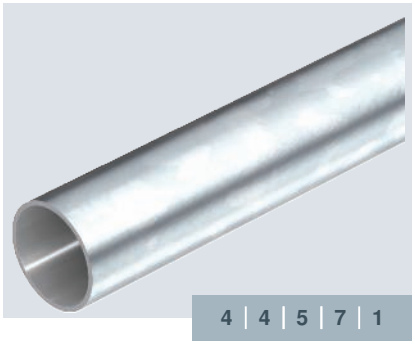


Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

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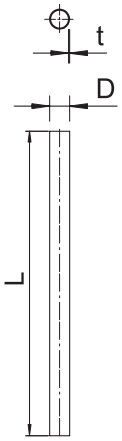
Armoured steel pipe without thread, electrogalvanised

St G E30 E90



Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

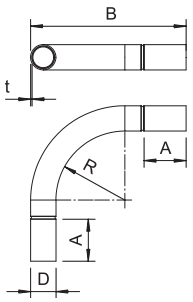
Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W G	16	3000	1	30	37.000	**2046840**
S20W G	20	3000	1	30	44.700	**2046841**
S25W G	25	3000	1.2	30	70.400	**2046842**
S32W G	32	3000	1.2	21	91.200	**2046843**
S40W G	40	3000	1.2	15	139.700	**2046844**
S50W G	50	3000	1.2	15	176.000	**2046845**
S63W G	63	3000	1.2	9	223.000	**2046846**



Electrogalvanised steel bend, without thread

St G E30 E90





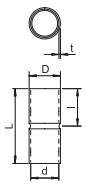
Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBN16 G	43.7	103	18.6	50	1	15	7.200	**2046808**
SBN20 G	53.7	155	22.6	90	1	25	13.300	**2046809**
SBN25 G	66.5	190	28	110	1.2	25	24.400	**2046810**
SBN32 G	86.5	254	35.1	150	1.2	20	41.000	**2046811**
SBN40 G	87.2	279	43.7	170	1.5	15	70.200	**2046812**
SBN50 G	131	358	54	200	1.5	5	111.800	**2046813**
SBN63 G	163	446	67	250	1.5	3	174.200	**2046814**

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

Armoured steel pipe connection sleeve without thread, electrogalvanised

St G E30 E90





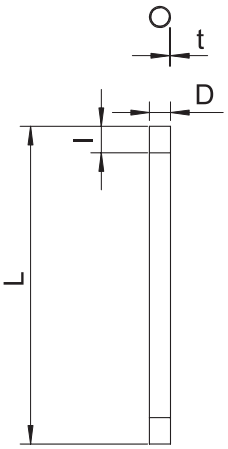
Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W G	18.6	16.6	50	25	1	25	2.100	**2046854**
SV20W G	23.1	20.7	60	30	1.2	50	2.800	**2046855**
SV25W G	28.1	25.7	60	30	1.2	50	4.800	**2046856**
SV32W G	35.2	32.8	70	35	1.2	50	7.200	**2046857**
SV40W G	43.8	43.8	80	40	1.5	25	13.200	**2046858**
SV50W G	54	51	100	50	1.5	10	20.000	**2046859**
SV63W G	67	64	100	50	1.5	5	28.000	**2046860**

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

St PE50
M E30 E90

Armoured steel pipe with thread, black

Type	Thread	Dim. D mm	Dim. L mm	Dim. l mm	Dim. t mm	Colour	Pack m	Weight kg/100 m	Item no.
SM16W SW	M16x1,5	16	3000	13	1.3	Jet black	30	50.000	**2046500**
SM20W SW	M20x1,5	20	3000	13	1.5	Jet black	30	73.000	**2046501**
SM25W SW	M25x1,5	25	3000	18	1.5	Jet black	30	92.000	**2046502**
SM40W SW	M40x1,5	40	3000	20.5	1.5	Jet black	15	152.000	**2046505**
SM50W SW	M50x1,5	50	3000	25	1.5	Jet black	15	190.700	**2046506**





5 | 5 | 5 | 6 | 1

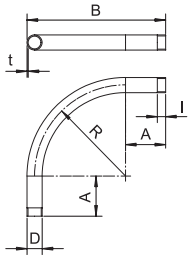
Electrical installation pipe according to EN 61386-1 with threaded ends to EN 60423 for mechanical protection of cables.
With burr-free inner wall. One coupling is already screwed onto each pipe.

St PE50
M E30 E90

Black powder-coated steel bend, with thread

Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. l mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBNM16 SW	M16x1,5	45	103	16	13	50	1.4	15	10.400	**2046793**
SBNM20 SW	M20x1,5	55	155	20	13	90	1.6	25	21.000	**2046794**
SBNM40 SW	M40x1,5	89	279	40	20.5	170	1.6	15	77.600	**2046797**

90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.
One connection sleeve is already screwed onto each pipe bend.



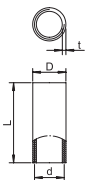


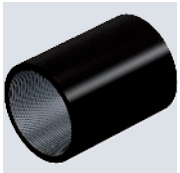
St PE50
M E30 E90

Black powder-coated steel sleeve, with thread

Type	Thread	Dim. D mm	Dim. d mm	Dim. L mm	Dim. t mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SVM16W SW	M16x1,5	18.5	16	26	2	Jet black	25	2.100	**2046522**
SVM20W SW	M20x1,5	22.5	20	30	2	Jet black	50	3.400	**2046523**
SVM40W SW	M40x1,5	43.5	40	45	2.5	Jet black	25	11.400	**2046526**

Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

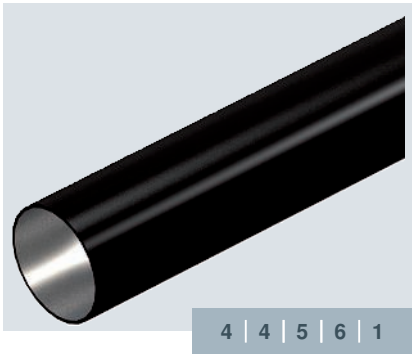




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Armoured steel pipe without thread, black

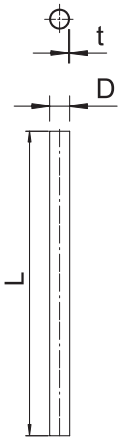
St PE50 E30 E90



4 | 4 | 5 | 6 | 1

Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

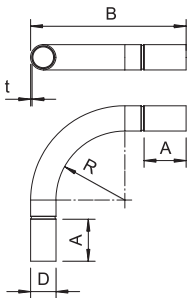
Type	Dim. D mm	Dim. L mm	Dim. t mm	Colour	Pack m	Weight kg/100 m	Item no.
S16W SW	16	3000	1	Jet black	30	37.000	2046565
S20W SW	20	3000	1	Jet black	30	44.700	2046566
S25W SW	25	3000	1.2	Jet black	30	70.400	2046567
S32W SW	32	3000	1.2	Jet black	21	91.200	2046568
S40W SW	40	3000	1.2	Jet black	15	139.700	2046569
S50W SW	50	3000	1.2	Jet black	15	176.000	2046570
S63W SW	63	3000	1.2	Jet black	9	223.000	2046571



Black powder-coated steel bend, without thread

St PE50 E30 E90





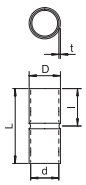
Type	Colour	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBN16 SW	Jet black	43.7	103	16.6	50	1	15	7.200	2046824
SBN20 SW	Jet black	53.7	155	20.6	90	1	25	13.300	2046825
SBN25 SW	Jet black	66.5	190	25.6	110	1.2	25	24.400	2046826
SBN32 SW	Jet black	86.5	254	32.7	150	1.2	20	41.000	2046827
SBN40 SW	Jet black	87.2	279	40.7	170	1.5	15	68.900	2046828
SBN50 SW	Jet black	131	358	51	200	1.5	5	111.800	2046829
SBN63 SW	Jet black	163	446	64	250	1.5	3	174.200	2046830

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

Armoured steel pipe connection sleeve without thread, black

St PE50 E30 E90





Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SV16W SW	18.6	16.6	50	25	1	Jet black	25	2.400	2046582
SV20W SW	23.1	20.7	60	30	1.2	Jet black	50	3.200	2046583
SV25W SW	28.1	25.7	60	30	1.2	Jet black	50	5.500	2046584
SV32W SW	35.2	32.8	70	35	1.2	Jet black	50	7.900	2046585
SV40W SW	43.8	40.8	80	40	1.5	Jet black	25	13.200	2046586
SV50W SW	54	51	100	50	1.5	Jet black	10	20.000	2046587
SV63W SW	67	64	100	50	1.5	Jet black	5	28.000	2046588

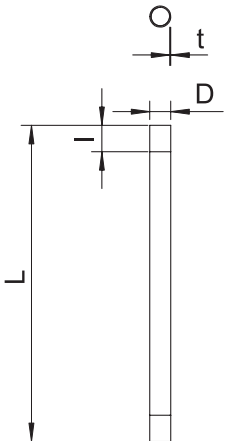
Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

St FT
M E30 E90

Hot-dip galvanised steel pipe, with thread

Type	Thread	Dim. D mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
SM16W FT	M16x1,5	16	3000	13	1.3	30	54.000	**2046533**
SM20W FT	M20x1,5	20	3000	13	1.5	30	79.000	**2046534**
SM25W FT	M25x1,5	25	3000	18	1.5	30	99.000	**2046535**
SM32W FT	M32x1,5	32	3000	18	1.5	21	130.000	**2046536**
SM40W FT	M40x1,5	40	3000	20.5	1.5	15	164.000	**2046537**
SM50W FT	M50x1,5	50	3000	25	1.5	15	206.000	**2046538**
SM63W FT	M63x1,5	63	3000	26	1.8	9	324.700	**2046540**



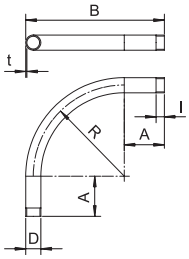


Electrical installation pipe according to EN 61386-1 with threaded ends to EN 60423 for mechanical protection of cables.
With burr-free inner wall. Corrosion protection class 4 (high). One coupling is already screwed onto each pipe.

St FT
M E30 E90

Hot-dip galvanised steel bend, with thread

Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. l mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBNM20 FT	M20x1,5	55	155	20	13	90	1.6	25	21.000	**2046787**
SBNM25 FT	M25x1,5	68	190	25	18	110	1.6	25	33.000	**2046788**
SBNM32 FT	M32x1,5	88	254	32	18	150	1.6	20	56.600	**2046789**
SBNM40 FT	M40x1,5	89	279	40	20.5	170	1.6	15	77.600	**2046790**
SBNM50 FT	M50x1,5	133	358	50	25	200	1.6	5	125.800	**2046791**
SBNM63 FT	M63x1,5	165	446	63	25	250	1.8	3	227.000	**2046792**



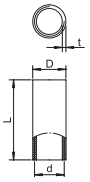


90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.
One connection sleeve is already screwed onto each pipe bend.

St DN
M E30 E90

Zinc-nickel coated steel sleeve, with thread

Type	Thread	Dim. D mm	Dim. d mm	Dim. L mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SVM20W DN	M20x1,5	22.5	20	30	2	50	3.000	**2046554**
SVM25W DN	M25x1,5	27.5	25	40	2	50	3.986	**2046556**
SVM32W DN	M32x1,5	35.5	32	40	2.5	50	8.800	**2046557**
SVM40W DN	M40x1,5	43.5	40	45	2.5	25	11.400	**2046558**
SVM50W DN	M50x1,5	53.5	50	54	2.5	10	17.000	**2046559**



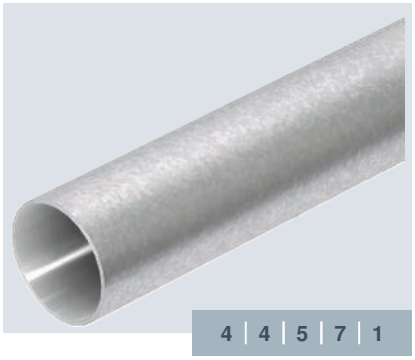


Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

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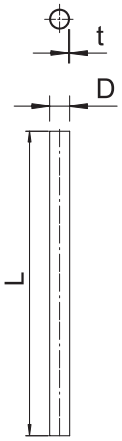
Hot-dip galvanised steel pipe, without thread

St FT E30 E90



Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).

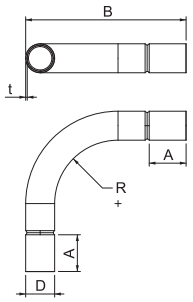
Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W FT	16	3000	1	30	37.000	**2046593**
S20W FT	20	3000	1	30	44.700	**2046594**
S25W FT	25	3000	1.2	30	70.400	**2046595**
S32W FT	32	3000	1.2	21	91.200	**2046596**
S40W FT	40	3000	1.2	15	139.700	**2046597**
S50W FT	50	3000	1.2	15	176.000	**2046598**
S63W FT	63	3000	1.2	9	223.000	**2046599**



Hot-dip galvanised steel bend, without thread

St FT E30 E90





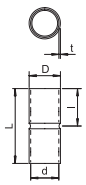
Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBN16 FT	43.7	103	16.6	50	1	15	7.400	**2046816**
SBN20 FT	53.7	155	20.6	90	1	25	13.300	**2046817**
SBN25 FT	66.5	190	25.6	110	1.2	25	24.400	**2046818**
SBN32 FT	86.5	254	32.7	150	1.2	20	41.000	**2046819**
SBN40 FT	87.2	279	40.7	170	1.5	15	68.900	**2046820**
SBN50 FT	131	358	51	200	1.5	5	111.800	**2046821**
SBN63 FT	163	446	64	250	1.5	3	174.200	**2046822**

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

Hot-dip galvanised steel sleeve, without thread

St FT E30 E90





Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W FT	18.6	16.6	50	25	1	25	2.200	**2046620**
SV20W FT	23.1	20.7	60	30	1.2	50	3.200	**2046621**
SV25W FT	28.1	25.7	60	30	1.2	50	5.100	**2046622**
SV32W FT	35.2	32.8	70	35	1.2	50	7.500	**2046623**
SV40W FT	43.8	40.8	80	40	1.5	25	14.400	**2046624**
SV50W FT	54	51	100	50	1.5	10	22.000	**2046625**
SV63W FT	67	63	100	50	1.5	5	22.000	**2046626**

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

Stainless steel pipe, V2A

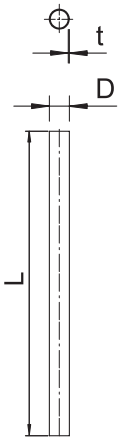
A2 2B
E30 E90

Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W A2	16	3000	1	30	37.000	**2046720**
S20W A2	20	3000	1	30	46.900	**2046721**
S25W A2	25	3000	1	30	59.200	**2046722**
S32W A2	32	3000	1.2	21	91.200	**2046723**
S40W A2	40	3000	1.2	15	114.800	**2046724**
S50W A2	50	3000	1.5	15	179.400	**2046725**
S63W A2	63	3000	1.5	9	227.500	**2046726**



5 | 5 | 5 | 7 | 1

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).
Classification according to DIN EN 61386-1: 555711404010



Stainless steel pipe, V4A

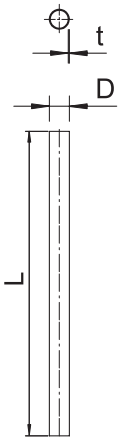
A4 2B
E30 E90

Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W A4	16	3000	1	15	37.000	**2046750**
S20W A4	20	3000	1	15	46.900	**2046751**
S25W A4	25	3000	1	15	59.200	**2046752**
S32W A4	32	3000	1.2	15	91.200	**2046753**
S40W A4	40	3000	1.2	9	114.800	**2046754**
S50W A4	50	3000	1.5	9	179.400	**2046755**
S63W A4	63	3000	1.5	9	227.500	**2046756**



5 | 5 | 5 | 7 | 1

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).

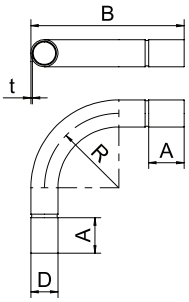


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Stainless steel pipe bend, V4A

A4 2B
E30 E90





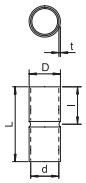
Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SB16W A4	25	103	18.2	50	1	5	7.200	**2046760**
SB20W A4	30	155	22.2	90	1	10	13.300	**2046761**
SB25W A4	40	190.5	27.2	110	1	10	20.400	**2046762**
SB32W A4	40	254	34.7	150	1.25	10	42.000	**2046763**
SB40W A4	50	279	42.7	170	1.25	5	61.200	**2046764**
SB50W A4	60	358	52.7	200	1.25	5	79.500	**2046765**
SB63W A4	90	446.6	65.7	250	1.25	3	144.600	**2046766**

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

Stainless steel sleeve V4A

A4 2B
E30 E90





Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W A4	18.2	16.2	50	25	1	10	2.100	**2046770**
SV20W A4	22.2	20.2	60	30	1	15	3.200	**2046771**
SV25W A4	27.2	25.2	60	30	1	15	3.900	**2046772**
SV32W A4	34.7	32.2	70	35	1.25	15	7.300	**2046773**
SV40W A4	42.7	40.2	80	40	1.25	10	10.300	**2046774**
SV50W A4	52.8	50.2	100	50	1.3	5	16.700	**2046775**
SV63W A4	65.8	63.2	100	50	1.3	3	20.900	**2046776**

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.



Aluminium pipes

Small weight – high protection.

Simple installation in any environment, both inside and outdoors.

- Less weight
- High resistance against compression and impact
- Corrosion resistant
- M16–M63
- Accessories: Bends and couplings
- Plug-in or threaded system

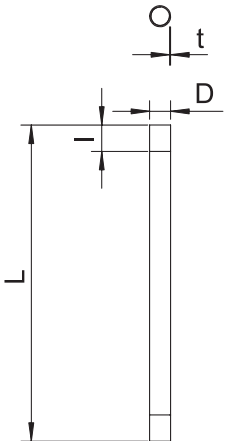
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Aluminium pipe, with thread



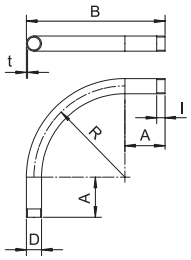
Electrical installation pipe to EN 61386-1 with threaded ends to DIN EN 60423 for mechanical protection of cables.
With burr-free inner wall. One connection sleeve is already screwed onto each pipe.

Type	Thread	Dim. D mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
SM20W ALU	M20x1,5	20	3000	15	1.9	30	29.170	**2046033**
SM25W ALU	M25x1,5	25	3000	20	1.9	30	37.230	**2046034**
SM32W ALU	M32x1,5	32	3000	20	1.9	30	48.510	**2046035**



Aluminium pipe bend, with thread





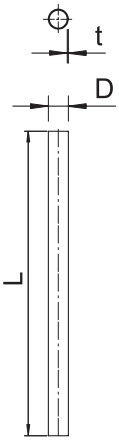
Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. l mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBM32W ALU	M32x1,5	105	252	32	20	131	1.9	20	20.000	**2046045**

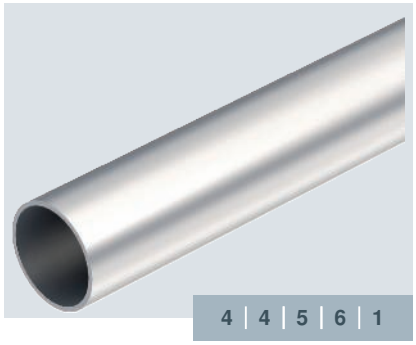
90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.
One connection sleeve is already screwed onto each pipe bend.

Alu

Aluminium pipe, without thread

Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W ALU	16	3000	1.2	30	15.065	**2046002**
S20W ALU	20	3000	1.2	30	19.134	**2046003**
S25W ALU	25	3000	1.3	30	26.134	**2046004**
S32W ALU	32	3000	1.3	30	33.853	**2046005**
S40W ALU	40	3000	1.4	15	45.839	**2046006**
S50W ALU	50	3000	1.4	15	57.714	**2046007**
S63W ALU	63	3000	1.7	15	88.394	**2046008**





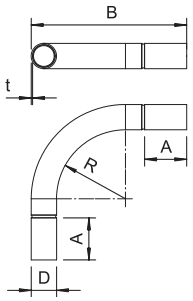
4 | 4 | 5 | 6 | 1

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

Alu

Aluminium pipe bend, without thread

Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SB16W ALU	78	151	16	64	1.2	15	2.350	**2046012**
SB20W ALU	80	171	20	80	1.2	25	5.500	**2046013**
SB25W ALU	93	209	25	102.5	1.3	25	9.000	**2046014**
SB32W ALU	105	253	32	131	1.3	20	14.100	**2046015**
SB40W ALU	115	302	40	165	1.4	15	22.400	**2046016**
SB50W ALU	128	360	50	205	1.4	5	35.400	**2046017**
SB63W ALU	135	425	63	256.5	1.7	3	59.500	**2046018**



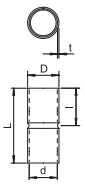


90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

Alu

Aluminium sleeve, without thread

Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. l mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W ALU	18.6	16.2	40	20	1.2	50	0.700	**2046022**
SV20W ALU	22.6	20.2	50	25	1.2	50	1.300	**2046023**
SV25W ALU	27.6	25.2	60	30	1.2	50	1.900	**2046024**
SV32W ALU	34.6	32.2	70	35	1.2	50	2.400	**2046025**
SV40W ALU	43	40.2	70	35	1.4	20	4.000	**2046026**
SV50W ALU	53	50.2	90	45	1.4	20	6.100	**2046027**
SV63W ALU	66.2	63.2	110	55	1.5	20	9.000	**2046028**



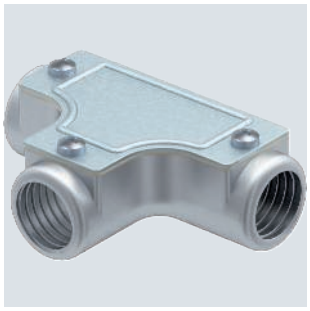


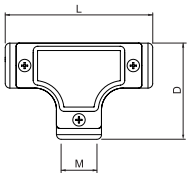
Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

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Control T piece with thread

AIG
M IP 54



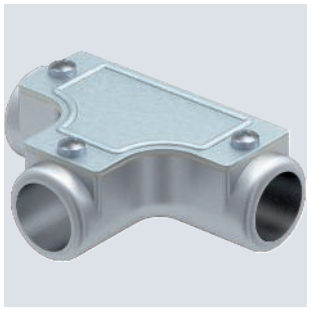


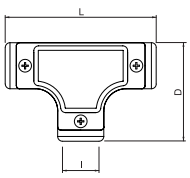
Type	Size	Dim. D mm	Dim. L mm	Dimension M	Pack Piece	Weight kg/100 pc.	Item no.
SKTM20W ALU	20	65	102	M20x1,5	5	13.500	**2047605**
SKTM25W ALU	25	75	115	M25x1,5	5	22.000	**2047606**
SKTM32W ALU	32	96	156	M32x1,5	4	46.600	**2047607**
SKTM40W ALU	40	96	156	M40x1,5	4	34.000	**2047608**
SKTM50W ALU	50	124.5	194	M50x1,5	2	56.300	**2047609**

Die-cast aluminium T piece, with internal thread, for mounting in pipe sections as a junction. Removable cover for easier cable routing and later checking.

Control T piece without thread

AIG
IP 54





Type	Size	Dim. D mm	Dim. L mm	Dim. l mm	Pack Piece	Weight kg/100 pc.	Item no.
SKT16W ALU	16	47.5	72	16	5	6.900	**2047588**
SKT20W ALU	20	65	102	20	5	12.900	**2047589**
SKT25W ALU	25	75	115	25	5	21.500	**2047590**
SKT32W ALU	32	96	156	32	4	45.300	**2047591**
SKT40W ALU	40	96	156	40	4	32.800	**2047592**
SKT50W ALU	50	124.5	194	50	2	53.100	**2047593**

Die-cast aluminium T piece, for mounting in pipe sections as a junction. Removable cover for easier cable routing and later checking.



Quick pipe



The Quick pipe system combines the benefits of cable ducts and conventional electrical installation pipes to produce a single, intelligent system for surface-mounted installations.

- 4 sizes – M16-M32
- Two colours: White and grey
- Simple installation
- Retroinstallation possible
- VDE-approved



Cables are inserted in the open Quick pipe electrical installation pipes in the same way as with open cable ducting.



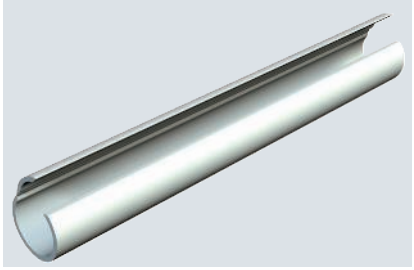
After the cable has been laid the Quick pipe is turned in the Quick clip, and thereby closed tightly.



Retro-fittings are also possible because the Quick pipe can be opened easily by turning it.

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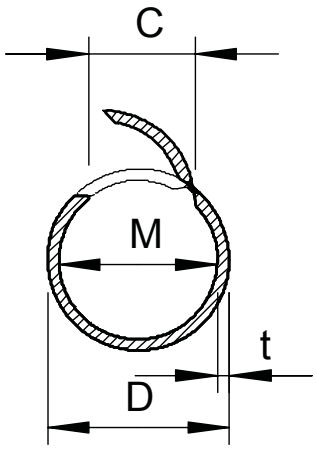
Quick pipe



Type	Size	Colour	Length mm	Pack m	Weight kg/100 m	Item no.
2953 M16 LGR	M16	Light grey	2000	50	7.000	**2153904**
2953 M20 LGR	M20	Light grey	2000	40	11.500	**2153912**
2953 M25 LGR	M25	Light grey	2000	30	16.000	**2153920**
2953 M32 LGR	M32	Light grey	2000	20	21.500	**2153939**

Open plastic Quick pipe pipe for surface-mounted routing of cables in interiors and protected outdoor areas. Mounting on wall and ceiling with Quick clip, starQuick clip and Multi-Quick clip. Toolless closing and opening through turning in the clip. Can be used in a temperature range of –25 to +60 °C.

Dimensions



Type	Dim. t mm	Dim. C mm	Dim. D mm	Dimension M
2953 M16 LGR	1.2	8.2	15.6	13,2
2953 M20 LGR	1.5	10	20	17
2953 M25 LGR	1.6	13.6	25	21,8
2953 M32 LGR	1.7	17	32	28,6

PP

IP 44 M

90° Quick pipe bend

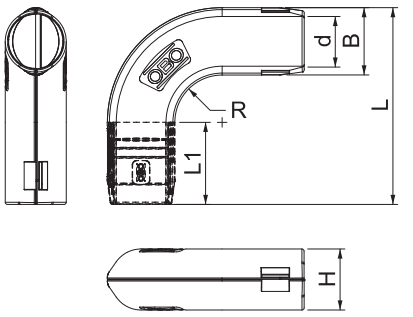
Type	Size	Colour	Height mm	Weight kg/100 pc.	Item no.
3000 BMS M16 LGR	M16	Light grey	18	0.59	**2154052**
3000 BMS M20 LGR	M20	Light grey	23	1.10	**2154054**
3000 BMS M25 LGR	M25	Light grey	28	1.51	**2154056**
3000 BMS M32 LGR	M32	Light grey	35	2.04	**2154058**



Fitting for plastic electrical installation pipes to create 90° bends. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

Type	Dim. B mm	Dim. L mm	Dim. L1 mm	Dim. R mm	Dim. d mm
3000 BMS M16 LGR	21.4	69	28	20	15.6
3000 BMS M20 LGR	26.3	83.2	35	22	20
3000 BMS M25 LGR	31.2	91	38	22	25
3000 BMS M32 LGR	38.8	103	42	22	32.6

Dimensions



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Quick pipe T piece

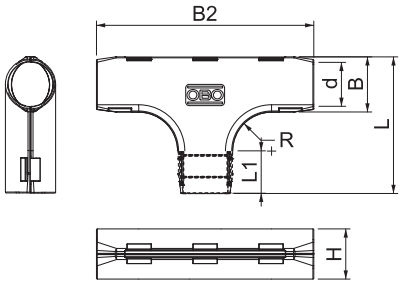
PP
IP 44 M



Type	Size	Dim. B2 mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 TMS M16 LGR	M16	94	18	10	0.798	**2153839**
3000 TMS M20 LGR	M20	110	23	5	1.401	**2153841**
3000 TMS M25 LGR	M25	123	28	5	1.977	**2153843**
3000 TMS M32 LGR	M32	135	35	5	2.511	**2153845**

Fitting for plastic electrical installation pipes to create T branches. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. B2 mm	Dim. L1 mm	Dim. d mm	Dim. R mm
3000 TMS M16 LGR	58	21	94	17	16	20
3000 TMS M20 LGR	69	26	110	20	20	22
3000 TMS M25 LGR	77	31	123	24	25	22
3000 TMS M32 LGR	87	39	135	26	32.6	22

PP

IP 44 M

Quick pipe connection sleeve

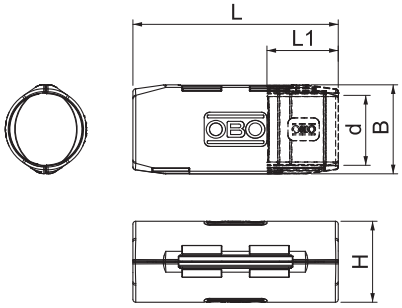
Type	Size	Colour	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 MMS M16 LGR	M16	Light grey	18	10	0.299	**2154081**
3000 MMS M20 LGR	M20	Light grey	23	10	0.581	**2154083**
3000 MMS M25 LGR	M25	Light grey	28	10	0.823	**2154085**
3000 MMS M32 LGR	M32	Light grey	35	10	1.095	**2154087**



Connection sleeve for plastic electrical installation pipes to create straight connections. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

Type	Dim. L mm	Dim. B mm	Dim. L1 mm	Dim. d mm
3000 MMS M16 LGR	52	21	18	15.6
3000 MMS M20 LGR	65	26	23	20
3000 MMS M25 LGR	72	31	25	25
3000 MMS M32 LGR	80	39	28	32.6

Dimensions

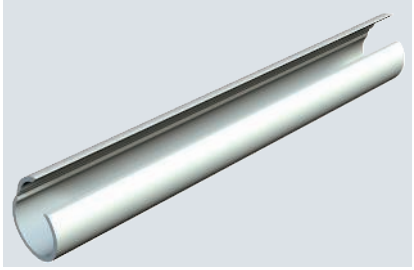


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Quick pipe

PVC

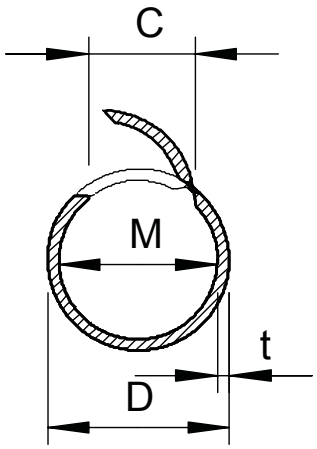
IP 44 M



Type	Size	Colour	Length mm	Pack m	Weight kg/100 m	Item no.
2953 M16 RW	M16	Pure white	2000	50	7.700	**2153960**
2953 M20 RW	M20	Pure white	2000	40	11.500	**2153963**
2953 M25 RW	M25	Pure white	2000	30	16.000	**2153966**
2953 M32 RW	M32	Pure white	2000	20	21.500	**2153969**

Open plastic Quick pipe pipe for surface-mounted routing of cables in interiors and protected outdoor areas. Mounting on wall and ceiling with Quick clip, starQuick clip and Multi-Quick clip. Toolless closing and opening through turning in the clip. Can be used in a temperature range of –25 to +60 °C.

Dimensions



Type	Dim. t mm	Dim. C mm	Dim. D mm	Dimension M
2953 M16 RW	1.2	8.2	15.6	13,2
2953 M20 RW	1.5	10	20	17
2953 M25 RW	1.6	13.6	25	21,8
2953 M32 RW	1.7	17	32	28,6

PP

IP 44 M

90° Quick pipe bend

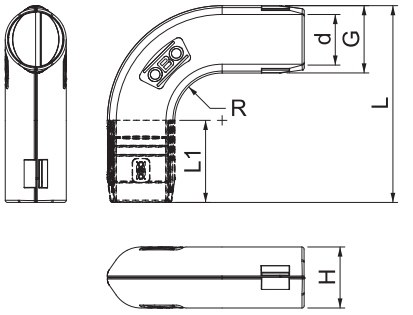
Type	Size	Colour	Height mm	Weight kg/100 pc.	Pack Piece	Item no.
3000 BMS M16 RW	M16	Pure white	18	0.59	10	**2154062**
3000 BMS M20 RW	M20	Pure white	23	1.10	5	**2154064**
3000 BMS M25 RW	M25	Pure white	28	1.51	5	**2154066**
3000 BMS M32 RW	M32	Pure white	35	2.04	5	**2154068**



Fitting for plastic electrical installation pipes to create 90° bends. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

Type	Dim. B mm	Dim. L mm	Dim. L1 mm	Dim. R mm	Dim. d mm
3000 BMS M16 RW	21.4	69	28	20	15.6
3000 BMS M20 RW	26.3	83.2	35	22	20
3000 BMS M25 RW	31.2	91	38	22	25
3000 BMS M32 RW	38.8	103	42	22	32.6

Dimensions



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Quick pipe T piece

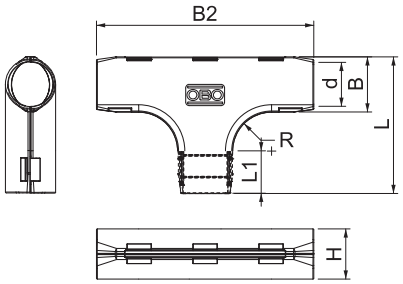
PP
IP 44 M



Type	Size	Colour	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 TMS M20 RW	M20	Pure white	23	5	1.401	**2153953**
3000 TMS M25 RW	M25	Pure white	28	5	1.978	**2153955**
3000 TMS M32 RW	M32	Pure white	35	5	2.511	**2153957**
3000 TMS M16 RW	M16	Pure white	18	10	0.798	**2153951**

Fitting for plastic electrical installation pipes to create T branches. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. B2 mm	Dim. L1 mm	Dim. d mm	Dim. R mm
3000 TMS M20 RW	69	26	110	20	20	22
3000 TMS M25 RW	77	31	123	24	25	22
3000 TMS M32 RW	87	39	135	26	32.6	22
3000 TMS M16 RW	58	21	94	17	16	20

PP

IP 44 M

Quick pipe connection sleeve

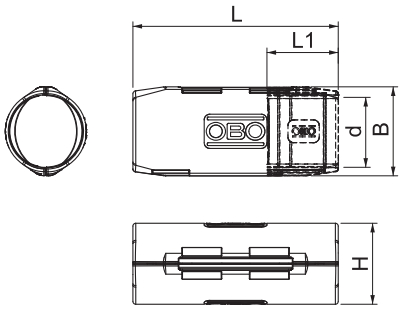
Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3000 MMS M16 RW	M16	Pure white	10	0.299	**2154091**
3000 MMS M20 RW	M20	Pure white	10	0.581	**2154093**
3000 MMS M25 RW	M25	Pure white	10	0.823	**2154095**
3000 MMS M32 RW	M32	Pure white	10	1.095	**2154097**



Connection sleeve for plastic electrical installation pipes to create straight connections. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of –25 to +60 °C.

Type	Dim. L mm	Dim. B mm	Dim. L1 mm	Height mm	Dim. d mm
3000 MMS M16 RW	52	21	18	18	15.6
3000 MMS M20 RW	65	26	23	23	20
3000 MMS M25 RW	72	31	25	28	25
3000 MMS M32 RW	80	39	28	35	32.6

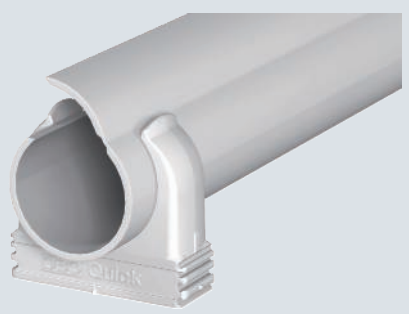
Dimensions



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Set of Quick clips and Quick pipe pipes

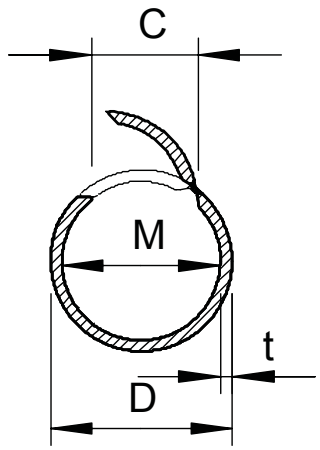
PVC
IP 44 M



Type	Size	Colour	Set consisting of	Pack Piece	Weight kg/100 pc.	Item no.
2954 M16 LGR	M16	Light grey	50 m Quick pipe and 156x OBO Quick clip	1	444.000	**2154501**
2954 M20 LGR	M20	Light grey	40 m Quick pipe and 120x OBO Quick clip	1	508.000	**2154528**
2954 M25 LGR	M25	Light grey	30 m Quick pipe and 96x OBO Quick clip	1	517.000	**2154536**
2954 M32 LGR	M32	Light grey	20 m Quick pipe and 60x OBO Quick clip	1	479.000	**2154544**

Set consisting of Quick pipe electrical installation pipes and Quick clip surface-mounted clips. For surface-mounted routing of cables in interiors and protected outdoor areas. Universal fastening on wall and ceiling. Depending on diameter, the set comprises up to 50 m of pipe each of 2 metres in length and up to 156 Quick clips. Can be used in a temperature range of –25 to + 60 °C.

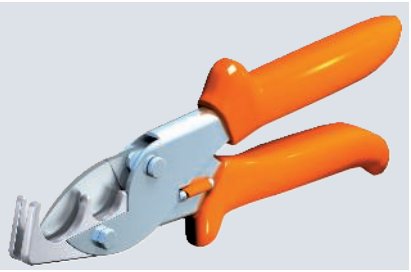
Dimensions



Type	Dimension M	Dim. t mm	Dim. C mm	Dim. D mm
2954 M16 LGR	13,2	1.2	8,2	15.6
2954 M20 LGR	17	1.5	10	20
2954 M25 LGR	21,8	1.6	13,6	25
2954 M32 LGR	28,6	1.7	17	32

Quick pipe shears

IP 44 M



Type	Cutting area mm		Pack Piece	Weight kg/100 pc.	Item no.
SQ 1632	16-32		1	40.000	**2153572**

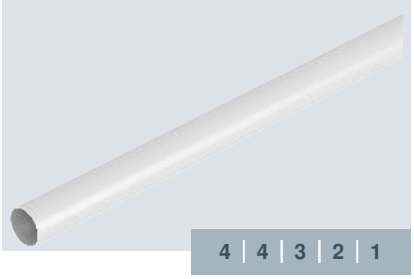
Shears for burr-free cutting of Quick Pipe electrical installation pipe Ø 16–32 mm.

PC/ ABS

IP 54 M

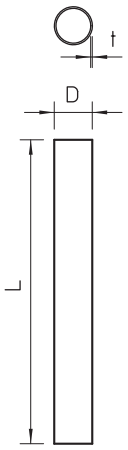
Plastic pipe, rigid, halogen-free

Type	Colour	Size	Dim. D mm	Dimen-sion M	Dim. t mm		Pack m	Weight kg/100 m	Item no.
KH16 LGR	Light grey	M16	16	M16	1.6		57	8.600	**2047720**
KH20 LGR	Light grey	M20	20	M20	1.7		57	11.000	**2047721**
KH25 LGR	Light grey	M25	25	M25	1.7		57	14.800	**2047722**
KH32 LGR	Light grey	M32	32	M32	1.9		30	20.400	**2047723**
KH40 LGR	Light grey	M40	40	M40	1.9		30	27.100	**2047724**
KH50 LGR	Light grey	M50	50	M50	2.1		15	37.700	**2047725**
KH63 LGR	Light grey	M63	63	M63	2.3		15	52.400	**2047726**



Electrical installation pipe system made of halogen-free plastic, to EN 61386 (Code: 44321) for the mechanical protection of cables.

Dimensions

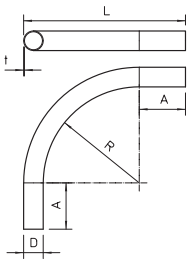


PC/ ABS

IP 54 M

Pipe bend, plastic, halogen-free

Type	Colour	Size	Dim. R mm	Dim. A mm	Dim. D mm	Dim. L mm	Dim. t mm		Pack Piece	Weight kg/100 pc.	Item no.
KBH16 LGR	Light grey	M16	97	65	16	168	1.6		10	2.500	**2047736**
KBH20 LGR	Light grey	M20	110	53	20	183	1.7		25	3.200	**2047738**
KBH25 LGR	Light grey	M25	122.5	59	25	206.5	1.7		25	4.900	**2047739**
KBH32 LGR	Light grey	M32	144	87	32	263	1.9		25	7.900	**2047740**
KBH40 LGR	Light grey	M40	165	102	40	307	1.9		10	12.400	**2047741**
KBH50 LGR	Light grey	M50	190	129	50	369	2.1		5	20.700	**2047742**
KBH63 LGR	Light grey	M63	228.5	168	63	459.5	2.3		5	39.800	**2047743**





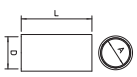
Accessory part: 90° bend to EN 61386 (Code: 4421) for halogen-free electrical installation pipes.

PC/ ABS

IP 54 M

Plastic pipe connector, halogen-free

Type	Colour	Size	Dim. L mm	Dim. D mm	Dim. A mm		Pack Piece	Weight kg/100 pc.	Item no.
KVH16 LGR	Light grey	M16	40	16	14.5		50	0.400	**2047728**
KVH20 LGR	Light grey	M20	40	20	18.5		50	0.700	**2047729**
KVH25 LGR	Light grey	M25	55	25	23.5		50	0.900	**2047730**
KVH32 LGR	Light grey	M32	62	32	30.5		25	1.300	**2047731**
KVH40 LGR	Light grey	M40	66	40	38.5		25	2.300	**2047732**
KVH50 LGR	Light grey	M50	95	50	48.5		10	4.400	**2047733**
KVH63 LGR	Light grey	M63	105	63	61.5		5	6.700	**2047734**

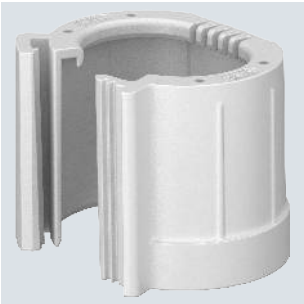




Accessory part: Pipe connector to EN 61386 (Cofe: 4421), for halogen-free installation pipes and bends without a thread.

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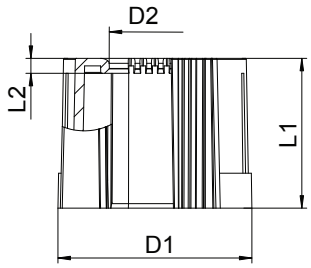
Pipe end cap, splittable, metric, light grey



Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
129 TB M16	M16	Light grey	50	0.400	**2047812**
129 TB M20	M20	Light grey	50	0.440	**2047831**
129 TB M25	M25	Light grey	50	0.500	**2047839**
129 TB M32	M32	Light grey	50	0.656	**2047855**
129 TB M40	M40	Light grey	30	0.790	**2047863**
129 TB M50	M50	Light grey	30	0.935	**2047890**
129 TB M63	M63	Light grey	20	1.140	**2047898**

Separable pipe end cap to slot onto metric electrical installation pipes.
The separable pipe end cap can be used for repairs on existing installations according to regulations. It is not necessary to disconnect the cables, allowing quick mounting.

Dimensions



Type	Dim. D1 mm	Dim. D2 mm	Dim. L1 mm	Dim. L2 mm
129 TB M16	20	10	30	3
129 TB M20	24	13.4	30	3
129 TB M25	30	18.4	30	3
129 TB M32	36	25.4	30	3
129 TB M40	44	33.4	30	3
129 TB M50	53	43	30	3
129 TB M63	67	56	30	3

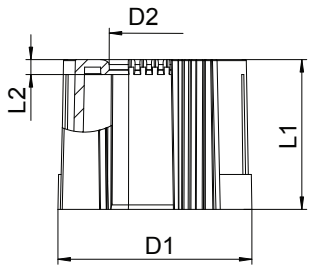
Pipe end cap, splittable, metric, black



Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
129 TB M16 SW	M16	Black	50	0.400	**2047936**
129 TB M20 SW	M20	Black	50	0.440	**2047944**
129 TB M25 SW	M25	Black	50	0.500	**2047952**
129 TB M32 SW	M32	Black	50	0.656	**2047971**
129 TB M40 SW	M40	Black	30	0.790	**2047979**
129 TB M50 SW	M50	Black	30	0.935	**2047987**
129 TB M63 SW	M63	Black	20	1.140	**2047995**

Separable pipe end cap to slot onto metric electrical installation pipes.
The separable pipe end cap can be used for repairs on existing installations according to regulations. It is not necessary to disconnect the cables, allowing quick mounting.

Dimensions



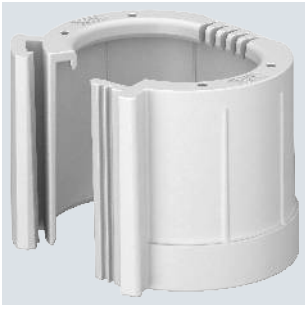
Type	Dim. D1 mm	Dim. D2 mm	Dim. L1 mm	Dim. L2 mm
129 TB M16 SW	20	10	30	3
129 TB M20 SW	24	13.4	30	3
129 TB M25 SW	30	18.4	30	3
129 TB M32 SW	36	25.4	30	3
129 TB M40 SW	44	33.4	30	3
129 TB M50 SW	53	43	30	3
129 TB M63 SW	67	56	30	3

PE

Pg UV

Pipe end cap, splittable, PG, light grey

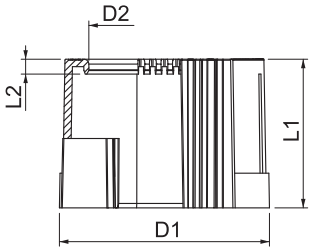
Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
129 TB PG9	PG9	Light grey	50	0.400	**2044509**
129 TB PG11	PG11	Light grey	50	0.430	**2044511**
129 TB PG13,5	PG13,5	Light grey	50	0.460	**2044513**
129 TB PG16	PG16	Light grey	50	0.500	**2044516**
129 TB PG21	PG21	Light grey	50	0.590	**2044521**
129 TB PG29	PG29	Light grey	50	0.700	**2044529**
129 TB PG36	PG36	Light grey	30	0.870	**2044536**
129 TB PG42	PG42	Light grey	30	0.980	**2044542**
129 TB PG48	PG48	Light grey	20	1.060	**2044548**



Separable pipe end cap to slot onto PG electrical installation pipes.
The separable pipe end cap can be used for repairs on existing installations according to regulations. It is not necessary to disconnect the cables, allowing quick mounting.

Type	Dim. D1 mm	Dim. D2 mm	Dim. L1 mm	Dim. L2 mm
129 TB PG9	20	10	30	3
129 TB PG11	24	12.5	30	3
129 TB PG13,5	26	15	30	3
129 TB PG16	28	16	30	3
129 TB PG21	34	21.5	30	3
129 TB PG29	38	30	30	3
129 TB PG36	48	40.5	30	3
129 TB PG42	60	47.5	30	3
129 TB PG48	66	52	30	3

Dimensions



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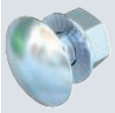
Fastening materials


Anchors and ties 634


Plastic fastening clips 652


Metal fastening clips 686


Mounting accessories 744


Bolts and screws 748


Nails 762

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Screw lock



The components listed below are now considered to be ineffective screw locks, as the corresponding standards have been withdrawn. They are therefore not permitted as the sole safety devices for strength classes ≥ 8.8.

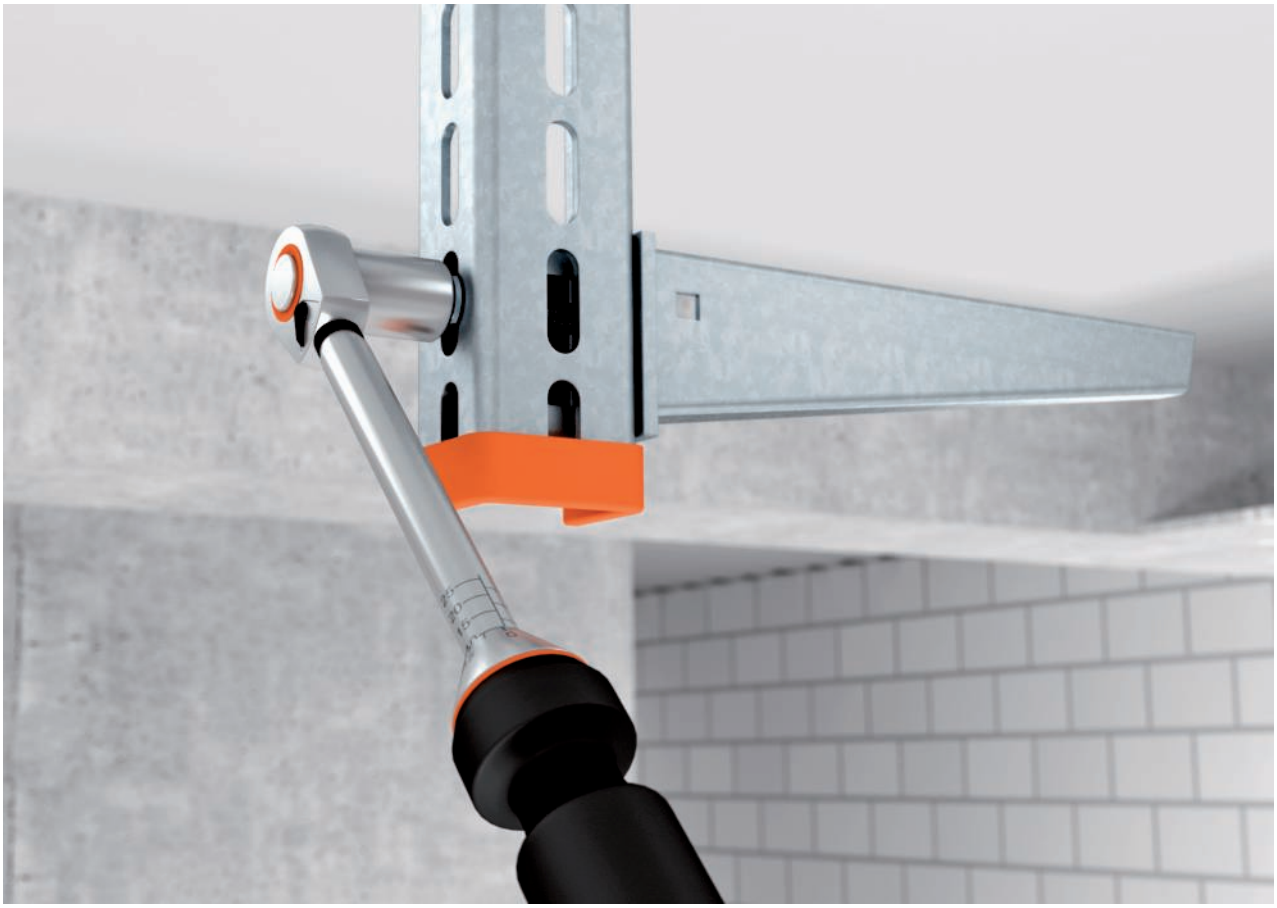
Withdrawn standards:
Spring lock washers (DIN 127, DIN 128 and DIN 6905)
Wave spring washers (DIN 137 and DIN 6904)
Toothed discs (DIN 6797)
Serrated washers (DIN 6798)
Locking plates (DIN 93, DIN 432 and DIN 463)
Safety cups (DIN 526)
Locking nuts (DIN 7967)
Castle nuts with split pin (DIN 937)

All specified standards have now been withdrawn, however these components can often still used as “captive prevention”. Captive prevention devices prevent a screw connection from being completely unscrewed, but not from loosening.

At OBO Bettermann, individual products – such as hexagonal bolts with washer and nut – continue to be sold as a complete package, as these are used for electrical contact to surrounding metallic components.

Our systems are generally not exposed to dynamic loads that require screw locking.

Tightening torques



Different tightening torques apply when mounting a cable support system. Please note that the specified torques are only intended as rough, non-binding guide values (see VDI 2230).

Tightening torques of bolts with metric thread made of steel

Thread	Tightness class 5.6	Tightness class 8.8
Friction coefficient 0.14	Friction coefficient 0.14	Friction coefficient 0.14
M6	4.80 Nm	4.80 Nm
M8	11.60 Nm	27.30 Nm
M10	23.10 Nm	54.00 Nm
M12	40.40 Nm	93.00 Nm
M14	64.70 Nm	148.00 Nm
M16	11.60 Nm	230.00 Nm

Tightening torques of bolts with metric thread made of stainless steel

Thread	Resistance grade 70	Resistance grade 80
Friction coefficient 0.14	Friction coefficient 0.14	Friction coefficient 0.14
M6	11.60 Nm	12.90 Nm
M8	23.60 Nm	31.50 Nm
M10	46.80 Nm	62.40 Nm
M12	81.00 Nm	108.00 Nm
M14	129.00 Nm	172.00 Nm
M16	201.00 Nm	269.00 Nm

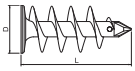
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Multipurpose anchors

Insulation anchor

PA





Type	Length mm	Dowel Ø mm	Wood screws Ø mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
DSDT 60	58	8	4,5-5	0.05	10	0.720	**2347605**

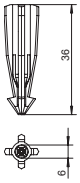
Insulation anchor for universal lightweight fastening in plastered heat composite systems. With self-tapping point.

Gas concrete anchor

Gas concrete anchor

PA





Type	Dim. D mm	Dim. L mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
910 GD 6x35	6	35	Light grey	100	0.094	**2347229**
910 GD 8x50	8	50	Light grey	50	0.263	**2347261**

The anchor can be knocked directly into the porous concrete (gas concrete resistance class G2). With a resistance class of G4 or greater, a 5 or 6 mm hole should be pre-drilled.
Screw length: Component thickness + 40 mm (6 mm) / 55 mm (8 mm).

System description



The majority of metal spreading anchors from OBO Bettermann have a European Technical Assessment ETA. Some versions have shock approval from the Federal Office for Civil Protection in Bern, Switzerland. Most metal spreading anchors have also been tested in terms of fire protection for a fire resistance time of up to 120 minutes. You can find detailed information regarding the permitted loads (also in the event of a fire) and the installation conditions that must be observed in the corresponding approvals.

System benefits:

- Wide range of application areas thanks to the variety of versions, load classes and material qualities
- Quick and easy mounting
- High-tensile loads and shear loads
- Small edge and axis spacings
- Can be used indoors and outdoors (depending on material)

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Mounting aid



Drilling an anchor hole
Drilling of the anchor hole according to the anchor approval information for the drill hole diameter and the drill hole depth.



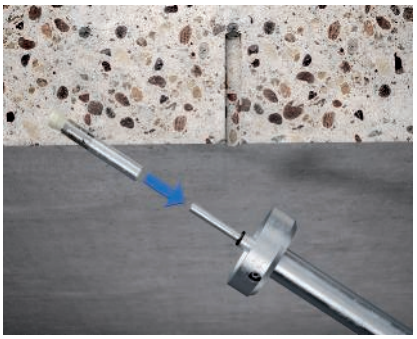
Blowing-out of the drill hole
Removing dust from the drill hole by blowing it out several times.



Drilling an anchor hole in the ceiling
Drilling of the anchor hole in the ceiling according to the anchor approval information for the drill hole diameter and the drill hole depth.



Blowing-out of the drill hole in the ceiling
Removing dust from the drill hole by blowing it out several times.



Placing the BZ IG bolt tie
The bolt tie BZ-IG is placed on the BZ-IGS setting tool. It must be ensured that the thread size of the setting tool fits to the corresponding bolt tie.



Knocking-in of the BZ-IG bolt tie
Knocking-in of the bolt tie BZ IG with the appropriate setting tool. Then the component to be mounted can be fastened.



Mounting of BZ IG threaded rod
Mounting of a threaded rod into the BZ-IG bolt tie. The direct mounting of a component with a hexagonal bolt is also possible.



Application of the BZ IG torque
Fastening of the threaded rod by tightening the hexagonal nut with the torque specified in the approval.

Mounting aid



Nail tie, type N, with threaded connection
Nail tie, type N, with M6 threaded connection, usable in cracked or non-cracked standard concrete C20/25 to C50/60.



Nail tie, type N-K, with drive-in head
Nail tie, type N-K with drive-in head, usable in cracked or non-cracked standard concrete C20/25 to C50/60.



Bolt tie, type BZ
Bolt tie, type BZ, for fastening heavy-duty anchorings in cracked or non-cracked standard concrete C20/25 to C50/60, suitable for push-through mounting, with M8, M10, M12 or M16 thread.



Drop-in anchor, type ES
Impact tie, type E, with M6, M8, M10, M12 internal thread. To accept small loads, approved for multiple fixings in cracked and non-cracked concrete of non-load-bearing systems.



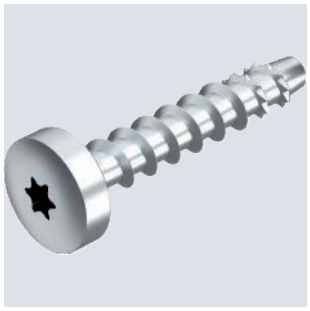
Hollow core anchor, type Easy
Hollow core anchor, type Easy, with M6, M8 and M10 internal thread, for use in stressed concrete core slab ceilings.

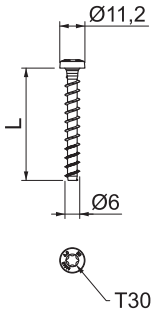
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Fire protection anchors

MMS-plus P round head tie, with panhead

St G VZ ABZ





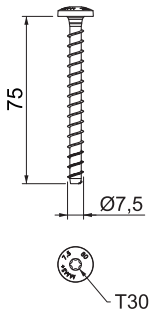
Type	Dimension mm	Dim. L mm	Drill hole Ø mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ P 6x35	6x35	35	5	11.2	Torx	100	0.710	**3498103**
MMS+ P 6x40	6x40	40	5	11.2	Torx	100	1.000	**3498105**
MMS+ P 6x50	6x50	50	5	11.2	Torx	100	1.000	**3498108**

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings. Torx drive T30.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus P round head tie, with panhead, made of A4 stainless steel

VA



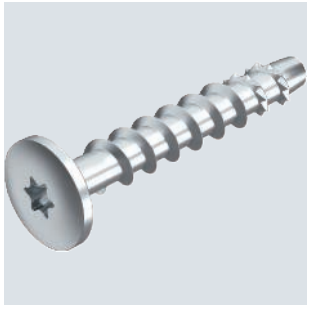


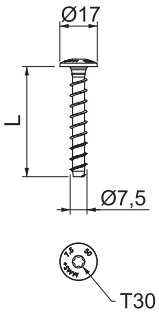
Type	Dimension mm	Drill hole Ø mm	Head Ø mm	Screw system	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ P 7.5x75 A4	7,5x75	6	14.5	Torx	75	50	1.900	**3498274**

Stainless steel screw-in anchor for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings in wet rooms and outdoor areas. Torx drive T30.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus MS mounting rail tie, with flat panhead

St VZ ABZ





Type	Dimension mm	Dim. L mm	Drill hole Ø mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ MS 7.5x60	7,5x60	60	6	17	Torx	50	1.800	**3498262**

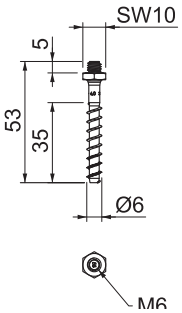
Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With large round head to fasten mounting and profile rails. Torx drive T30.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

St G ABZ

MMS-plus ST push-in tie, with connection thread

Type	Dimension mm	Drill hole Ø mm	Thread	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ ST 6x55	6x55	5	M6	10	100	1.030	**3498264**

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. M6 connection thread for fastening clips with threaded foot.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



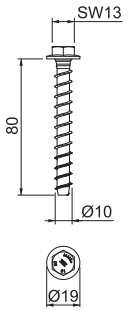


St G ABZ

MMS-plus SS hexagonal tie, with pressed washer

Type	Dimension mm	Dim. L mm	Drill hole Ø mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ SS 10x80	10x80	80	8	13	25	4.000	**3498124**
MMS+ SS 10x100	10x100	100	8	13	25	4.800	**3498159**

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



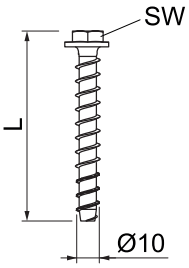


VA

MMS-plus SS hexagonal tie, with pressed washer, made of A4 stainless steel

Type	Dimension mm	Dim. L mm	Drill hole Ø mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ SS 10x75 A4	10x75	75	8	13	25	3.700	**3498126**
MMS+ SS 10x95 A4	10x95	95	8	13	25	4.600	**3498128**
MMS+ SS12x105 A4	12x105	105	10	15	25	8.200	**3498174**
MMS+ SS12x120 A4	12x120	120	10	15	25	9.400	**3498176**

Stainless steel screw-in anchor for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in wet rooms and in outdoor areas.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



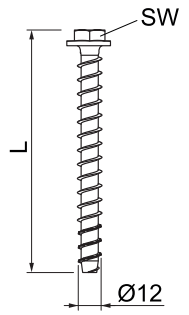


St VZ ABZ

MMS-plus hexagonal tie, with pressed washer

Type	Dimension mm	Dim. L mm	Drill hole Ø mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ SS 12x100	12x100	100	10	15	25	7.800	**3498170**
MMS+ SS 12x120	12x120	120	10	15	25	8.900	**3498172**

Stainless steel screw-in anchor for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in wet rooms and in outdoor areas.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.





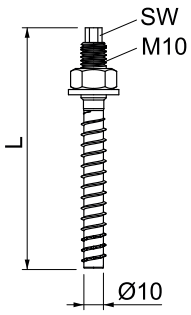
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Fire protection anchors

MMS-plus V pre-push tie, with connection thread

St VZ





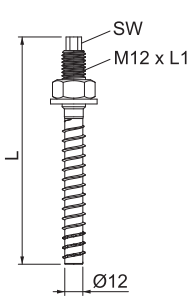
Type	Dimension mm	Dim. L mm	Drill hole Ø mm	Thread	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ V 10x90	10x90	90	8	M10x20	7	25	5.500	**3498190**
MMS+ V 10x110	10x110	110	8	M10x40	7	25	6.660	**3498192**

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With connection thread and washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in push-through mounting. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus V pre-push tie, with connection thread

St VZ





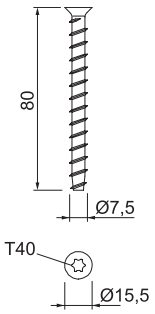
Type	Dimension mm	Dim. L mm	Drill hole Ø mm	Thread	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ V 12x110	12x110	110	10	M12x30	8	25	6.900	**3498196**

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With connection thread and washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in push-through mounting. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus F countersunk head tie

St VZ ABZ





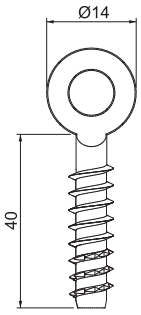
Type	Dimension mm	Drill hole Ø mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ F 7.5x80	7,5x80	6	15.5	Torx	50	2.000	**3498160**

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With countersunk head for universal fastenings. Torx drive T40. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus R ring tie, with setting tool

St VZ





Type	Dimension mm	Drill hole Ø mm	Head Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ R 6x40	6x40	5	14	200	0.790	**3498180**

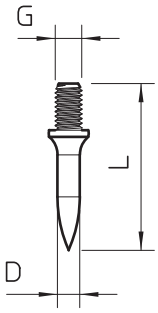
Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With ring eyelet for universal fastenings. Setting tool contained in the scope of delivery.

St G

OBO anchor

Type	Shank length mm	Dim. L mm	Dim. D Ø mm	Dim. G mm	Pack Piece	Weight kg/100 pc.	Item no.
903 15 G	15	23	4	M6	100	0.330	**3100154**
903 18 G	18	26	4	M6	100	0.360	**3100189**
903 25 G	25	33	4	M6	100	0.404	**3100251**
903 30 G	30	38	4	M6	100	0.470	**3100308**
903 40 G	40	48	4	M6	100	0.571	**3100405**

Hardened steel, electrogalvanised with M6 x 8 mm thread.



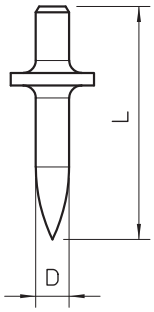


St

OBO anchor

Type	Shank length mm	Dim. L mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
903 RB 15	15	21	4	200	0.295	**3105016**
903 RB 18	18	24	4	200	0.348	**3105024**
903 RB 22	22	30	4	200	0.325	**3105032**

Hardened steel, shiny without thread.



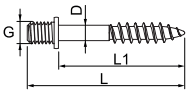


St G

Screw-in anchor with M6 thread

Type	Dim. G mm	Dim. D mm	Dim. L1 mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
985 M6 25	M6	4.3	25	35	100	0.412	**3133028**
985 M6 35	M6	4.3	35	45	100	0.533	**3133036**

With wood screw shank and M6 thread.



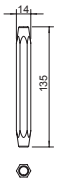


St

Flattener

Type	Dim. L mm	Dim. D mm	Size	Pack Piece	Weight kg/100 pc.	Item no.
915 S M6	135	14	M6	1	17.000	**3031012**

Flattener for OBO anchors 903 with M6 thread.



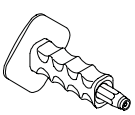


St

Flattener with hand protection

Type	Pack Piece	Weight kg/100 pc.	Item no.
915 RBS M4	1	52.000	**3031500**

Flattener with hand protection for OBO anchors 903/RB Ø 4 mm and also for OBO anchors 904 with M4 thread.





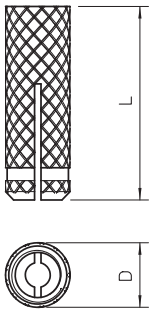
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Anchor, light-duty fastening

Brass spreading anchor

CuZn 37





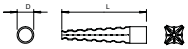
Type	Thread	Drill hole depth mm	Length mm	Drill hole Ø mm	Pull-out value N	Pack Piece	Weight kg/100 pc.	Item no.
865 M6x24	M6	32	24	8	6000	100	0.442	**3483061**
865 M8x30	M8	41	30	11	7000	100	0.867	**3483088**
865 M10x34	M10	53	34	12	9000	100	1.315	**3483096**

Areas of application: full brick, concrete, wood. Ideally suited for areas exposed to high temperatures.

Metal spreading anchor

St GTP



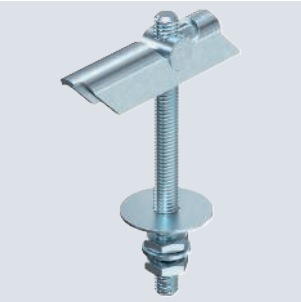


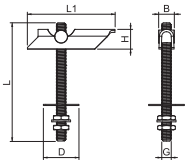
Type	Dim. D mm	Dim. L mm	Drill hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
MD 5 GTP	5	30	5-7	200	0.190	**3484602**
MD 6 GTP	6	32	7-9	100	0.250	**3484629**

Areas of application: gas concrete, lightweight concrete, Poroton, pumice, plaster, hollow brick and full brick. Can be knocked into porous concrete (gas concrete) of low resistance without drilling. Superbly suited for areas subjected to high temperatures.

Tilting anchor

St G





Type	Thread	Dim. L mm	Drill hole Ø mm	Break load kN	Minimum cavity depth mm	Pack Piece	Weight kg/100 pc.	Item no.
KD 10 100	M10	100	25	2.4	75	25	11.200	**3482758**

Including nut and large washer.
The universal heavy-duty fastening for stressed concrete, hollow steel profiles, metal sheets and plates.
Use: heating, ventilation and air conditioning technology, cooling systems, sprinkler systems, pipes, cable tracks, etc.
* Dependent on the thickness of the ceiling profile.

St G

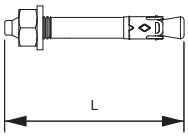
ABZ

Nail anchor N with thread

Type	Thread	Drill hole Ø mm	Drill hole depth mm	Clamping range mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
N 6-5-10/49	M6	6	40	5-10	49	100	1.160	**3498396**

The nail anchor N can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting.
The nail tie only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail tie spreads itself and bolts itself in the drill hole.

European Technical Approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.





A4 2B

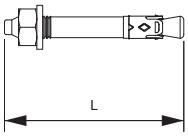
ABZ

Nail anchor N with thread, V4A

Type	Thread	Drill hole Ø mm	Drill hole depth mm	Fixture thickness mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
N 6-5/49 A4	M6	6	40	5	49	50	1.200	**3498399**

The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.





St G

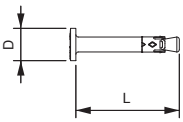
ABZ

Nail anchor N-K with nail head

Type	Drill hole Ø mm	Drill hole depth mm	Clamping range mm	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
N-K 6-5-10/44	6	40	5-10	44	13	100	1.135	**3498390**

The nail anchor N-K can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European Technical Approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.





A4 2B

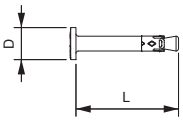
ABZ

Nail anchor N-K with nail head, V4A

Type	Drill hole Ø mm	Drill hole depth mm	Fixture thickness mm	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
N-K 6-5/44 A4	6	40	5	44	13	50	1.100	**3498393**

The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.





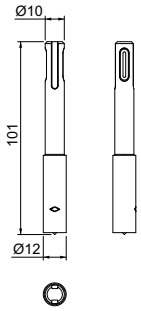
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Anchor, heavy-duty fastening

Setting tool for nail anchor

St G





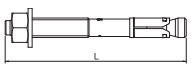
Type	Pack Piece	Weight kg/100 pc.	Item no.
N-K SWZ SDS	1	5.000	**3498314**

Setting tool for nail anchor, type N-K, with SDS plus seat.

Bolt tie BZ

St G





Type	Drill hole Ø mm	Drill hole depth mm	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ 10-150/230	10	75	M10	230	25	13.600	**3498344**
BZ 12-160/255	12	90	M12	255	20	22.400	**3498358**

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

European Technical Approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.
Proof of suitability in the case of seismic impacts, categories C1 and C2.
Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

Installation

Standard anchoring depth

Loads and characteristics	Anchoring depth	Drill hole Ø	Drill hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 8-100/165	46	8	60	100	2.4
M 10-75/155	60	10	75	75	4.3
M 10-100/180	60	10	75	100	4.3
M 10-150/230	60	10	75	150	4.3
M 12-15/110	70	12	90	15	7.6
M 12-85/180	70	12	90	85	7.6
M 12-105/200	70	12	90	105	7.6
M 12-160/255	70	12	90	160	7.6
M 16-15/135	85	16	110	15	11.9

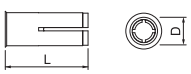
Reduced anchoring depth

Loads and characteristics	Anchoring depth	Drill hole Ø	Drill hole depth	Clamping strength	Approved load area, tension zone
	mm	mm	mm	mm	kN
M 8-111/165	35	8	49	111	2.4
M 10-95/155	40	10	55	95	3.6
M 10-120/180	40	10	55	120	3.6
M 12-35/110	50	12	70	35	6.1
M 12-105/180	50	12	70	105	6.1
M 12-125/200	50	12	70	125	6.1
M 16-35/135	65	16	90	35	9.0

Impact tie PL

St G





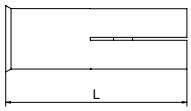
Type	Thread	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
EA M8x75 PL	M8	80	12	1	3.120	**3492865**
EA M8 PL	M8	30	10	1	1.200	**3492867**
EA M10 PL	M10	40	12	1	2.120	**3492869**
EA M10 x 90 PL	M10	90	20	1	5.920	**3492871**

Anchor for small loads in steel version

St G

Impact tie, version with collar

Type	Thread	Drill hole Ø mm	Drill hole depth mm	Dim. L mm	Perm. load range, tension zone kN		Pack Piece	Weight kg/100 pc.	Item no.
ES M 8x30	M8	10	30	30	1.7		100	1.100	**3492023**



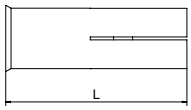


Impact tie for single fastening of non-load-bearing systems in non-cracked concrete as well as for multiple fastening in cracked and non-cracked concrete.
Tested to fire protection standards, fire resistance class R 120 according to European Technical Approval ETA-02/0020 (option 7) and European Technical Approval ETA-05/0116.
Mounting with marking and setting tool.

A4

Impact tie, version with collar

Type	Thread	Drill hole Ø mm	Drill hole depth mm	Dim. L mm	Perm. load range, tension zone kN		Pack Piece	Weight kg/100 pc.	Item no.
ES M 10x40 A4	M10	12	40	40	2		50	2.000	**3492008**



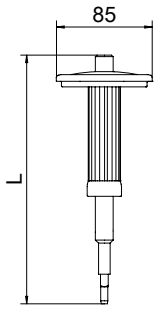


Impact tie for single fastening of non-load-bearing systems in non-cracked concrete as well as for multiple fastening in cracked and non-cracked concrete.
Tested to fire protection standards, fire resistance class R 120 according to European Technical Approval ETA-02/0020 (option 7) and European Technical Approval ETA-05/0116.
Mounting with marking and setting tool.

St G

Marking spreading tool for drop-in anchors

Type	Length mm	Thread		Pack Piece	Weight kg/100 pc.	Item no.
E-MSH 8x30	230	M8		1	43.100	**3492968**
E-MSH 10x40	235	M10		1	45.000	**3492974**
E-MSH 12x50	240	M12		1	47.000	**3492978**



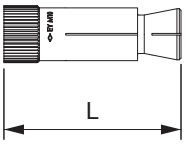


Marking spreading tool with hand protection for drop-in anchors, type E

St G

Hollow core anchor Easy

Type	Thread	Drill hole Ø mm	Dim. L mm		Pack Piece	Weight kg/100 pc.	Item no.
Easy M6	M6	10	40		50	1.000	**3498768**
Easy M8	M8	12	44		25	1.500	**3498770**
Easy M10	M10	16	53		25	3.320	**3498774**





Hollow core anchor "Easy" for mounting in prestressed hollow concrete slabs. When the screw or the nut is tightened, the cone is released from the anchor sleeve and pulled into it. This makes the anchor expand in the hollow space, thereby creating form lock. The hollow core anchor can also be used when the expansion area is not located in the cavity.
The fastening of the component can be done with standard screws and threaded rods.

General type approval Z-21.1-1785 granted by the German Institute for civil engineering (DIBt), Berlin, including permissible loads when exposed to fire up to a fire resistance duration of 120 minutes.

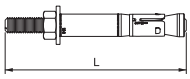
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Anchor, heavy-duty fastening

High-load anchor SZ-B

St G



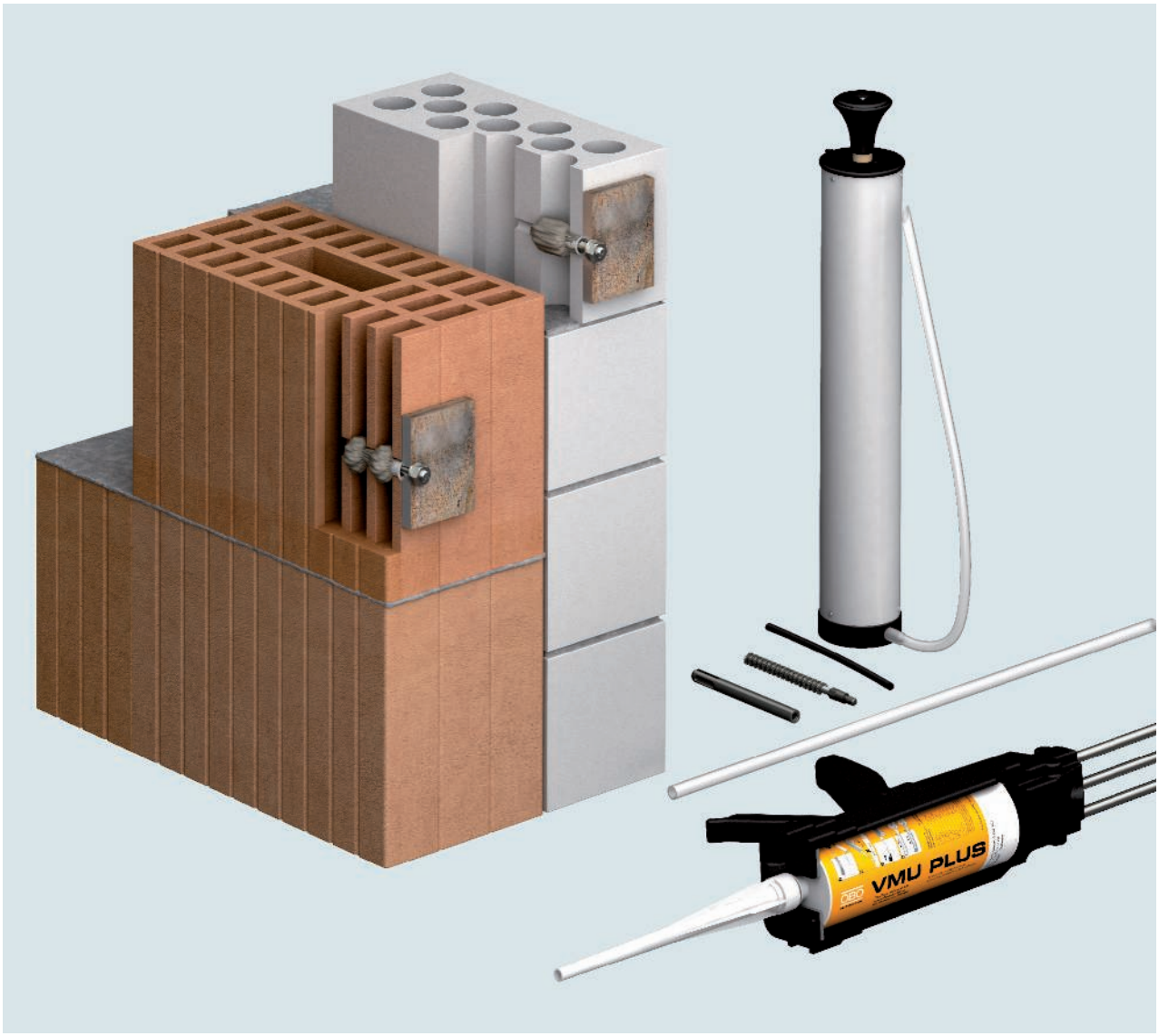


Type	Thread	Drill hole Ø mm	Drill hole depth mm	Dim. L mm	Fix-ture thick-ness mm	Perm. load range, tension zone kN	Pack Piece	Weight kg/100 pc.	Item no.
SZ-B 18/0x142	M12	18	105	142	30	12.3	20	21.123	**3498752**

The high-load anchor SZ is a heavy-duty push-through anchor system with a threefold expanding special sleeve which facilitates very high approved loads with small axial spacings and edge distances. The plastic press ring secures the permanent tightening of the fastening piece against the ground.

Due to the special design with an elongated thread and a shortened anchor sleeve, this special version is not approved to the European technical norm ETA .

System description



The VMS Plus injection mortar system is particularly suitable for fire protection fastening in hollow brick, concrete, calcareous limestone, sand-lime brick and masonry. The non-spreading connection is created through the use of the plastic wire sleeve and a threaded anchor rod. The components are tested and approved for a fire resistance period of 90 minutes.
The maximum load capacity depending on the fire resistance period and the fastening substrate is documented accordingly in the available fire protection certificate. Although the load capacity of the injection mortar system is below the load capacity when cold, it is completely sufficient for fireproof fastening of the various components of the different routing types.

System benefits

- Injection anchor tested and approved for fire
- Determined load capacity according to fire resistance period
- Use in calcareous limestone, masonry, hollow brick and sand-lime brick
- Various dimensions for the different routing components and applications
- Proven fastening with plastic wire sieves

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Mounting aid



Drilling
Creation of a drill hole with a suitable diameter.



Cleaning of the drill hole
Blowing-out and cleaning the drill hole with a hand-held blower or compressed air.



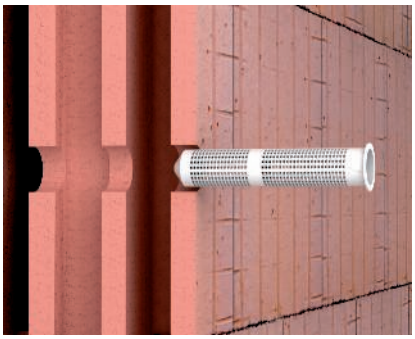
Cleaning with steel wire brush
Mechanical cleaning of the drill hole with steel wire brush. The cleaning process by blowing and brushing must be carried out twice.



Application of the injection mortar
Pressing of the injection mortar into the drill hole.



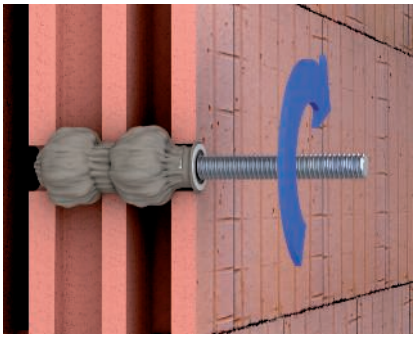
Use in hollow brick
Drill the hole in the hollow brick according to the selected anchor size and then clean it.



Mounting preparations
Insert the fitting plastic wire sleeve in the drill hole.



Applying the injection mortar
Press in the injection mortar from the cartridge from the base of the drill hole to the opening. In so doing, draw the point back slowly.



Inserting the anchor rod
Attach the anchor rod in the filled wire sleeve up to the set marking. The mortar pushes through the openings of the wire sleeve, forming a closure.



Mounted component, hollow brick wall
Mounting the component with a washer and nut on a hollow brick wall. Comply with the tightening torque according to the approval.

ABZ

Injection mortar in cartridge, 420 ml

Type	Contents ml		Pack Piece	Weight kg/100 pc.	Item no.
VMU plus 420	420		1	83.000	**3497803**



Styrene-free, vinyl ester composite mortar for spread-free anchoring of high loads with threaded anchor rods. Coaxial cartridge, including one mixing tube, to be worked with the pressing gun, type VM-P 380 Profi.

European Technical Assessment for cracked and uncracked concrete, as well as for masonry of full and hollow brick. Earthquake-proof in concrete according to Category C1. Fire protection approval for concrete and masonry with fire resistance classes up to 120 minutes.

Substrate temperature during processing –10 °C to +40 °C (concrete), ambient temperature after complete hardening –40 °C to +120 °C (in concrete). If stored in a dark, cool and dry place, will keep for at least 18 months.

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OBO Quick series

Arrangeable cable and pipe clips – available with infinitely adjustable clamping range or safety lock

starQuick clip
- Snap lock with patented safety system
- Can be lined up together up to size SQ28
- UV- and weatherproof polyamide
- Wall and ceiling mounting

HALOGEN FREE M



Quick clip – the high-speed clip
- Extreme loading capacity
- Insertion slopes
- Slot fastening
- Expandable above each other
- Latch-in hole/middle stopper

Multi-Quick clip
- One clip for multiple dimensions
- Universal application
- PG and metric

The OBO Quick series offers three different types of halogen-free pressure and pipe clips for the time-saving and secure fastening of cables and electrical installation pipes. The benefit from shorter mounting times when fastening installations on walls and ceilings, both indoors and outdoors.

All the clip types and sizes of the OBO Quick series can be interconnected easily, thanks to the shared arrangement contour. This means you can mount up to two clips with a single drill hole. The patented shape of the arrangement contour permits a particularly high carrying capacity.



Quick clip

The high-speed clip

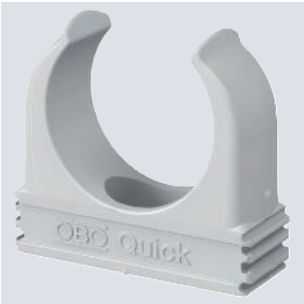
- Extreme loading capacity
- Maximum stability
- Extremely easy mounting
- Insertion slopes
- Slot fastening
- Suitable for lining up
- Latch-in hole/middle stopper



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Quick clips

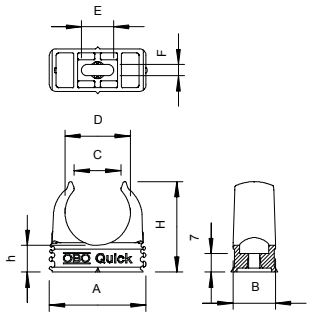
Quick clip



Type	Nominal size	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2955 M16	M16	Light grey	1200	100	0.252	**2149004**
2955 M20	M20	Light grey	1200	100	0.325	**2149010**
2955 M25	M25	Light grey	1200	100	0.430	**2149016**
2955 M32	M32	Light grey	600	50	0.630	**2149022**
2955 M40	M40	Light grey	600	50	0.835	**2149028**
2955 M50	M50	Light grey	300	25	1.454	**2149034**
2955 M63	M63	Light grey	240	20	2.203	**2149040**

Flush-mounted clip to accept metric steel armoured pipes and heavy-duty insulating pipes, as well as Quick Pipe electrical installation pipes. Universal fastening options on walls and ceilings, both in indoor and protected outdoor areas. With slot for side alignment during mounting with wood screw or knock-in anchor. Toolless pipe mounting. Can also be arranged with OBO Multi-Quick or starQuick clip. M16 - M32 size can be screwed onto M6 thread. Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.

Dimensions



Type	Nominal size	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm	Pull-out value N
2955 M16	M16	25.3	16	11,5	15.5	7	4.2	25	10	65
2955 M20	M20	30.3	16	14	19.4	9	4.2	29.5	10	75
2955 M25	M25	36.3	16	17,5	24.3	12	4.2	34	10	100
2955 M32	M32	46.3	16	22,4	31.4	12	4.2	42	11	100
2955 M40	M40	57.3	16	26	39.2	11	4.6	51	12	110
2955 M50	M50	70.3	18	32	49	12	6	63	14	135
2955 M63	M63	87.3	20	43	61.5	12	6	74.5	15	175

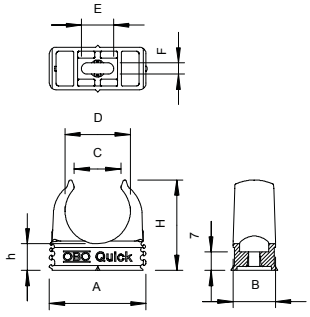
Quick clip, black



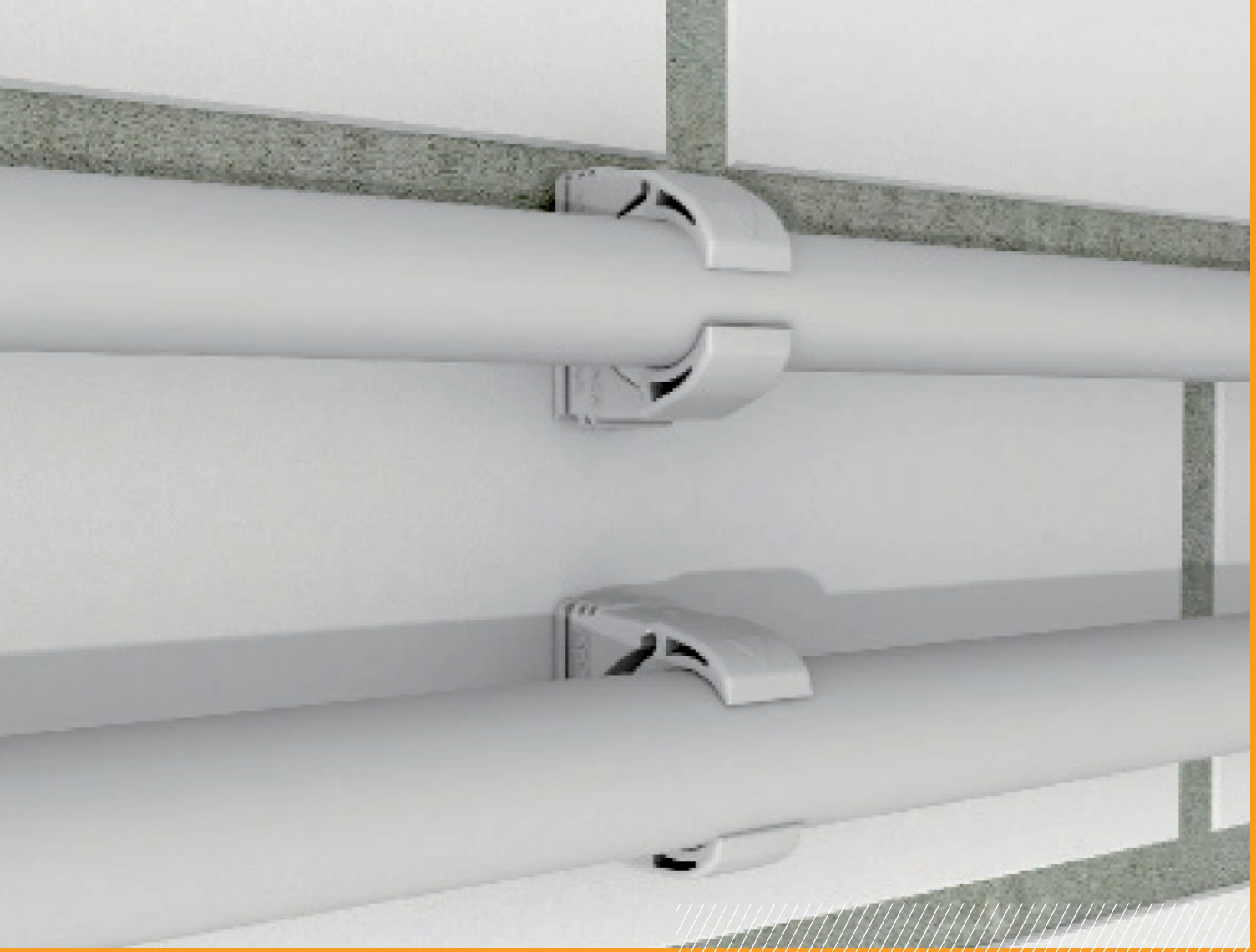
Type	Nominal size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2955 M16 SW	M16	Jet black	100	0.252	**2149559**
2955 M20 SW	M20	Jet black	100	0.325	**2149563**
2955 M25 SW	M25	Jet black	100	0.430	**2149567**
2955 M40 SW	M40	Jet black	50	0.835	**2149575**
2955 M50 SW	M50	Jet black	25	1.454	**2149579**

Flush-mounted clip to accept metric steel armoured pipes and heavy-duty insulating pipes, as well as Quick Pipe electrical installation pipes. Universal fastening options on walls and ceilings, both in indoor and protected outdoor areas. With slot for side alignment during mounting with wood screw or knock-in anchor. Toolless pipe mounting. Can also be arranged with OBO Multi-Quick or starQuick clip. M16 - M32 size can be screwed onto M6 thread. Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.

Dimensions



Type	Nominal size	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm	Pull-out value N
2955 M16 SW	M16	25.3	16	11,5	15.5	7	4.2	25	10	65
2955 M20 SW	M20	30.3	16	14	19.4	9	4.2	29.5	10	75
2955 M25 SW	M25	36.3	16	17,5	24.3	12	4.2	34	10	90
2955 M40 SW	M40	57.3	16	26	39.2	11	4.6	51	12	110
2955 M50 SW	M50	70.3	18	32	49	12	6	63	14	135



Multi-Quick clip

The universal clamp

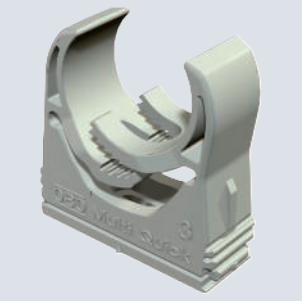


- PG and metric
- Easy fastening
- Secure locking
- Radial arrangement
- Simplified storage
- Clamping ranges from 15–37 mm
- Universal application

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Multi-Quick clips

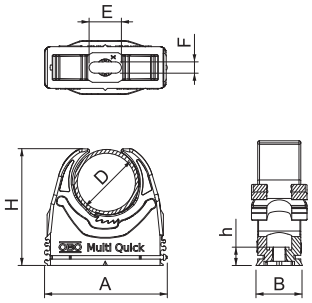
Multi-Quick clip



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
M-Quick 15-19LGR	15-19	Light grey	100	0.545	**2153106**
M-Quick 18-22LGR	18.5-22.5	Light grey	100	0.760	**2153114**
M-Quick 25-28LGR	25-28.5	Light grey	50	1.170	**2153130**
M-Quick 31-37LGR	31-37	Light grey	25	1.780	**2153157**

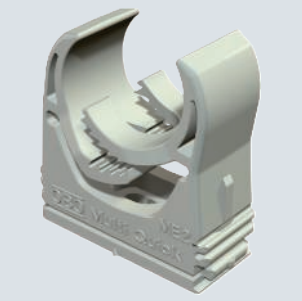
Flush-mounted clip to accept metric and PG pipes and Quick Pipe electrical installation pipes. Flexible clamping range of several millimetres. Universal fastening options on walls and ceilings and usable in a profile rail, both in indoor and protected outdoor areas. Toolless pipe mounting. Can also be arranged with OBO Quick clip or starQuick clip.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm
M-Quick 15-19LGR	27.5	15.5	8	4.1	32	7
M-Quick 18-22LGR	33	15.5	8	4.1	37.5	7
M-Quick 25-28LGR	43	15.5	8	4.1	46	7
M-Quick 31-37LGR	55	15.5	8	4.1	58	7

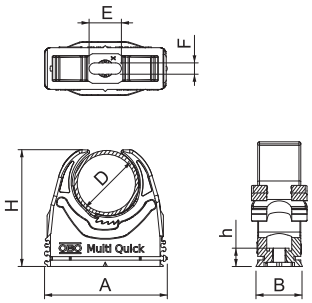
Multi-Quick clip, metric



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
M-Quick M20 LGR	16-20	Light grey	100	0.600	**2153718**

Flush-mounted clip to accept metric pipes and Quick Pipe electrical installation pipes. Flexible clamping range of several millimetres. Universal fastening options on walls and ceilings, both indoors and outdoors. Toolless pipe mounting. Can also be arranged with OBO Quick or starQuick clip.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm
M-Quick M20 LGR	27.5	15.5	8	4.1	32	7



starQuick clip

The safety clamp

- Snap lock with patented safety system
- All sizes clip together, up to size SQ28
- UV- and weatherproof polyamide
- Wall and ceiling mounting



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starQuick clip

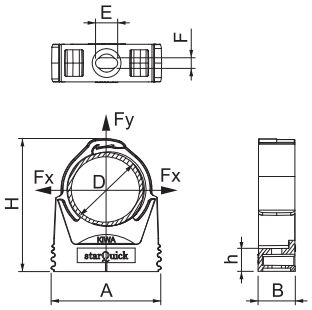
PA



Type	Clamping range D mm	Colour	Dim. E mm	Dim. F mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
SQ-10 LGR	9.5-12	Light grey	10	4.5	10.5	100	0.568	**2146053**
SQ-12 LGR	11.5-15	Light grey	10	4.5	10.5	100	0.540	**2146061**
SQ-15 LGR	14-16.5	Light grey	10	4.5	10.5	100	0.584	**2146096**
SQ-17 LGR	16-20	Light grey	10	4.5	10.5	100	0.640	**2146118**
SQ-20 LGR	19.5-23.5	Light grey	10	4.5	10.5	50	0.670	**2146134**
SQ-25 LGR	24-28	Light grey	10	4.5	10.5	50	0.970	**2146207**
SQ-28 LGR	27.5-32	Light grey	10	4.5	10.5	50	1.070	**2146215**
SQ-32 LGR	31.2-35.8	Light grey	10	4.5	10.5	50	1.230	**2146258**
SQ-36 LGR	35-40.1	Light grey	10	4.5	10.5	25	1.510	**2146290**
SQ-40 LGR	39.3-44.5	Light grey	10	4.5	10.5	25	1.710	**2146320**
SQ-47 LGR	44-50	Light grey	10	4.5	10.5	25	1.980	**2146363**
SQ-51 LGR	48-55	Light grey	10	4.5	10.5	15	2.250	**2146444**
SQ-59 LGR	58.5-65	Light grey	10	4.5	10.5	15	3.300	**2146487**

Highly stable clip to accept plastic and metal electrical and sanitary pipes, as well as the Quick Pipe electrical installation pipe. Universal fastening options on walls, ceilings and steel structures, both indoors and outdoors. Flexible clamping range of several millimetres. Tool-less pipe mounting. Can be arranged to up to Ø 28 mm, also with OBO Quick starQuick clip. For high load values, can be combined with double bracket. Can be mounted on profile rails for variable spacings and numbers of clips.

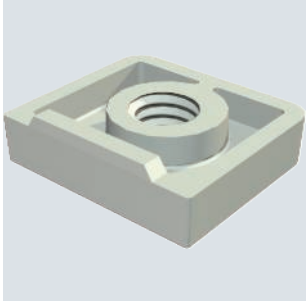
Dimensions

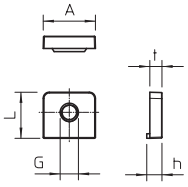


Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. H mm	Break load kN
SQ-10 LGR	9.5-12	29	17	31.6	0.5
SQ-12 LGR	11.5-15	29	17	34.5	0.55
SQ-15 LGR	14-16.5	29	17	35.7	0.6
SQ-17 LGR	16-20	29	17	39.8	0.7
SQ-20 LGR	19.5-23.5	29	17	43.5	0.8
SQ-25 LGR	24-28	40	17	49.5	0.85
SQ-28 LGR	27.5-32	40	17	52.8	0.9
SQ-32 LGR	31.2-35.8	43	17	57.3	1
SQ-36 LGR	35-40.1	47	17	65.8	1.1
SQ-40 LGR	39.3-44.5	52	17	69.5	1.2
SQ-47 LGR	44-50	57	17	75.5	1.2
SQ-51 LGR	48-55	63	17	81	1.4
SQ-59 LGR	58.5-65	74	20	94.3	1.5

starQuick nut

PC





Type	Nominal size	Dim. A mm	Dim. L mm	Dim. h mm	Dim. t mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SQ M6	M6	17	15	5	4	Light grey	100	0.070	**2146509**

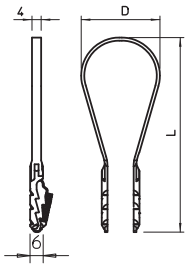
Nut for insertion in starQuick clip, to mount the clip on an M6 thread.

PA

BKS clamp clip

Type	Clamping range D mm	Dim. L mm	Dim. D mm	Pull-out value N	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1973 3-13 LGR	3-13	52	13	500	Light grey	100	0.089	**2148803**
1973 8-28 LGR	8-28	70	27	500	Light grey	100	0.122	**2148846**
1973 20-40 LGR	20-40	89	36	500	Light grey	100	0.150	**2148862**

For cables, flexible pipes and all kinds of insulating and armoured steel pipes, suitable for concrete, calcareous limestone and full brick. Use in gas concrete masonry is possible, but reduced load capacities must be expected.



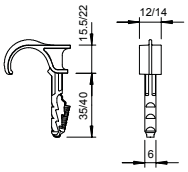


PA

Single push-fit clip

Type	Clamping range D mm	Drill hole Ø mm	Drill hole depth mm	Breaking load for concrete B25 N	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1974 16-23	16-23	6	40	50	Light grey	100	0.263	**2197804**
1974 22-30	22-30	6	40	65	Light grey	100	0.446	**2197812**

These push-fit clips are used when installing cables and pipes on walls and ceilings and when running flexible pipes on concrete and in the screed. The single push-fit clips can be used instead of nail clips in concrete and aerated concrete. The advantage of the push-fit clips is that they only have to be pushed into the drilled hole. Anchors and bolts are not needed.



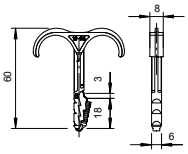


PA

Double push-fit clip

Type	Clamping range D mm	Drill hole Ø mm	Drill hole depth mm	Breaking load for concrete B25 N	Colour	Pack Piece	Item no.
1974 2X4-12	4-12	6	40	90	Light grey	100	**2197855**
1974 2X12-25	12-25	6	40	120	Light grey	100	**2197863**

These push-fit clips are used when installing cables and pipes on walls and ceilings and when running flexible pipes on concrete and in the screed. The double push-fit clips can be used instead of nail clips in concrete and aerated concrete. The advantage of the push-fit clips is that they only have to be pushed into the drilled hole. Anchors and bolts are not needed.



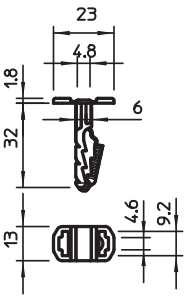


PA

Push-fit anchor for cable ties

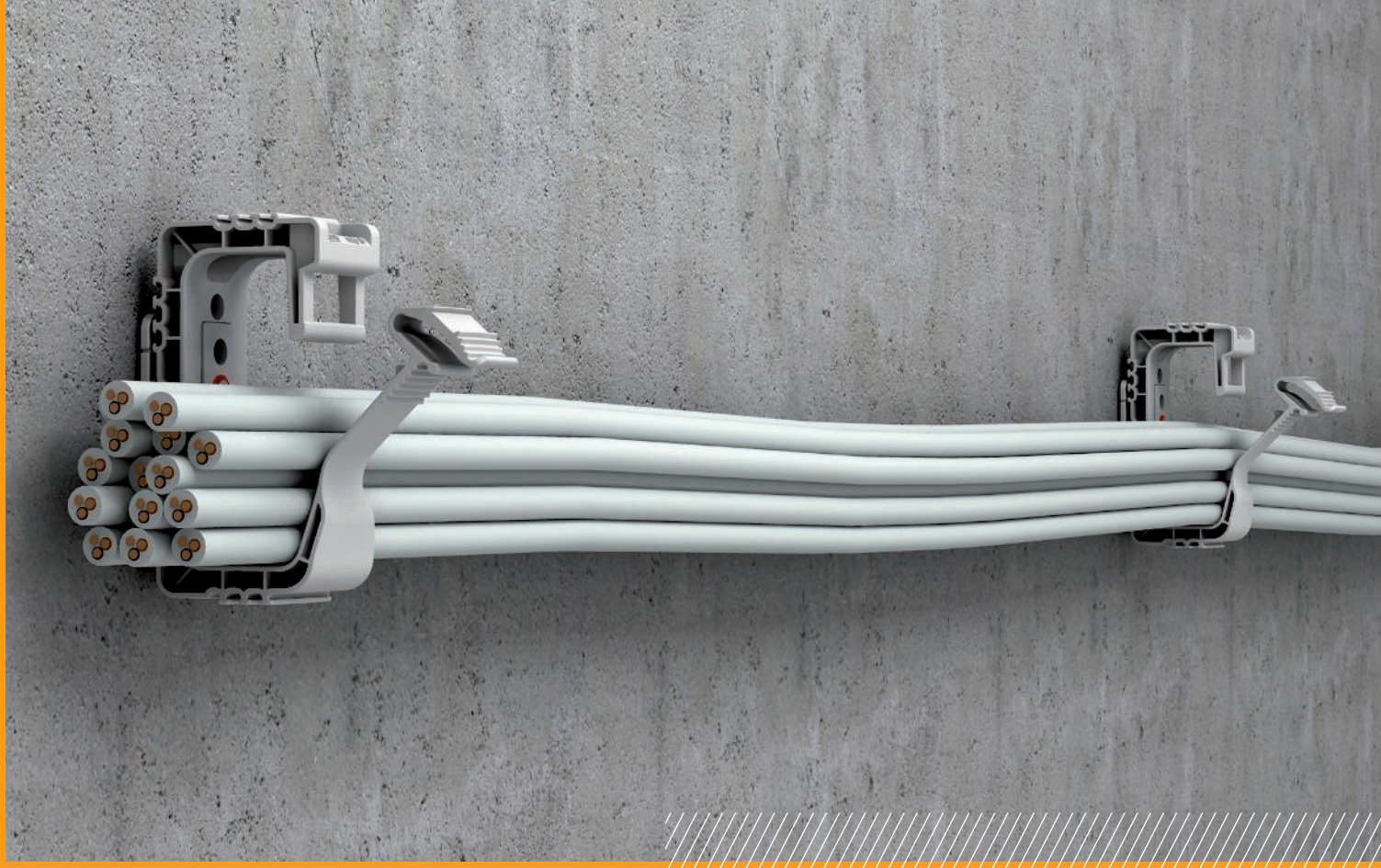
Type	Drill hole depth mm	Breaking load for concrete B25 N	Colour	Pack Piece	Weight kg/100 pc.	Item no.
910 STK 6x30	35	260	Light grey	100	0.108	**2351609**

The push-fit anchor can accept a cable tie (type 550 or 555) up to 9 mm wide, which can be used to install several cables and pipes.
Suitable for concrete, lime sandstone and brickwork as solid brick. Use in gas concrete masonry is possible, but reduced load capacities must be expected.





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Grip cable tidy

Cable tidy for general use, suitable for wall and ceiling mounting. The moulded fastening element can be fastened using knock-in anchors or a gas pressure nail gun.



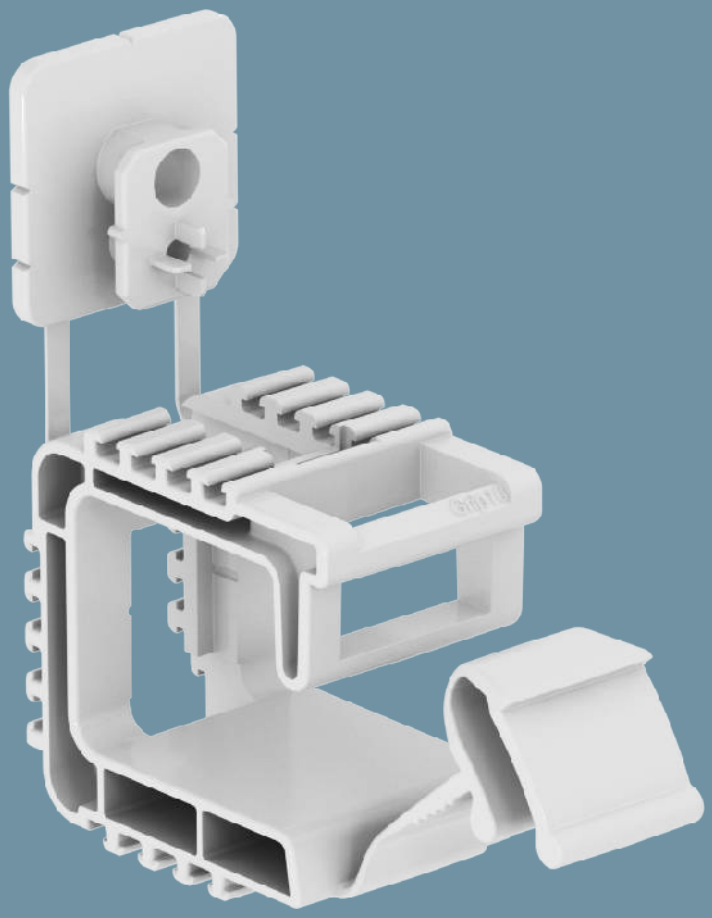
- Wall and ceiling mounting
- Can be joined together “back to back”
- For multiple cables
- Rapid mounting using the fastening element
- Ideal for retroinstallation
- Flame-resistant version, stone grey, to DIN EN 0471/DIN IEC 695 Part 2-1, test temperature 960 °C







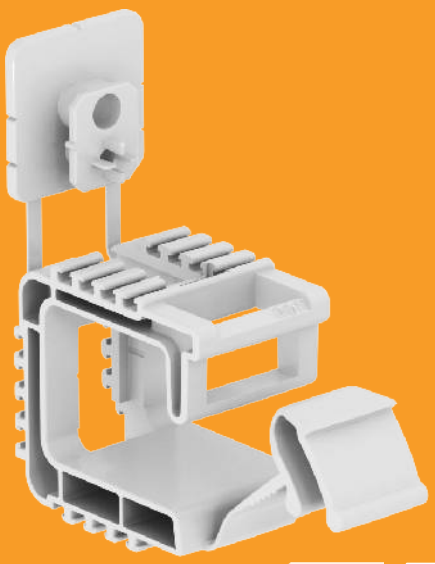




Grip 10 cable tidy

Cable tidy for general use, suitable for wall and ceiling mounting.

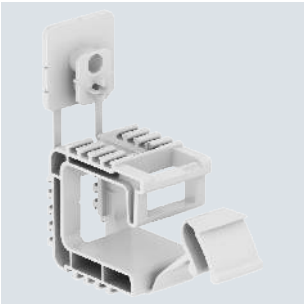
- Wall and ceiling mounting
- Can be joined together “back to back”
- For multiple cables
- Rapid mounting using the fastening element
- Ideal for retroinstallation
- Flame-resistant version, stone grey, to DIN EN 0471/DIN IEC 695 Part 2-1, test temperature 960 °C

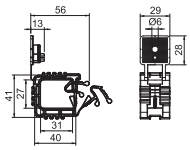


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Grip cable tidies, plastic

Grip 10

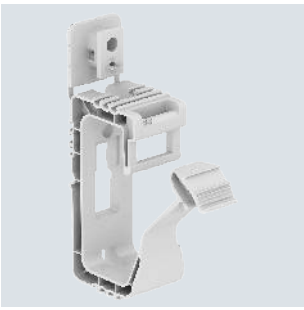


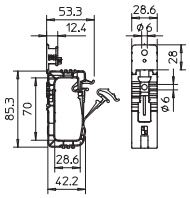


Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 10 SP	10	Light grey	100	1.410	**2205384**
2031 10	10	Light grey	50	1.410	**2205380**

Cable tidy with fastening holes of Ø 6 mm for mounting installation cables, suitable for wall and ceiling mounting. The moulded fastening element can be fastened using knock-in anchors or a gas pressure nail gun. The recommended fastening spacing when assigned fully is 250 to 400 mm.

Grip 20

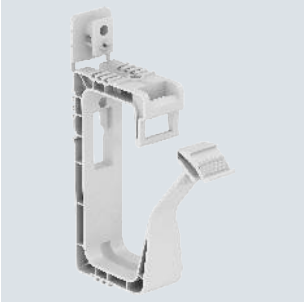


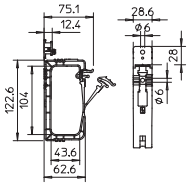


Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 20	20	Light grey	50	1.920	**2205404**

Cable tidy for general use with fastening holes of Ø 6 mm, suitable for wall and ceiling mounting. The moulded fastening element can be fastened using knock-in anchors or a gas pressure nail gun. The recommended fastening spacing when assigned fully is 250–400 mm.

Grip 40





Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 40	40	Light grey	25	3.610	**2205416**

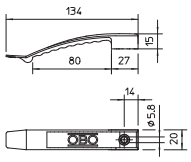
Cable tidy for general use with fastening holes of Ø 6 mm, suitable for wall and ceiling mounting. The moulded fastening element can be fastened using knock-in anchors or a gas pressure nail gun. The recommended fastening spacing when assigned fully is 250–400 mm.

PA

Pressure clip for 8 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2032	8	Light grey	50	1.371	**2205017**
2032 SP	8	Light grey	100	1.371	**2204975**

Standard version for general use, e.g. on intermediate ceilings and partition walls.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.



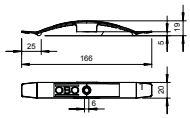


PA

Pressure clip for 10 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2034	10	Light grey	50	1.169	**2205041**
2034 SP	10	Light grey	100	1.169	**2204991**

Standard version for general use, e.g. on intermediate ceilings and partition walls.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.



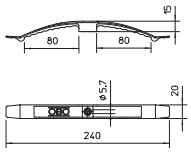


PA

Pressure clip for 16 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2033	16	Light grey	25	2.077	**2205033**
2033 SP	16	Light grey	100	2.077	**2204983**

Standard version for general use, e.g. on intermediate ceilings and partition walls.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.



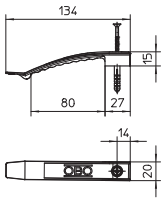


PA

Pressure clip with knock-in anchor, for 8 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2032 SD	8	Light grey	50	1.791	**2204800**

With pre-mounted knock-in anchor, 6 mm Ø.
Required drill hole depth 50 mm.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole 6 mm Ø.





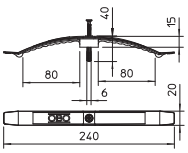
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Pressure clips, plastic

Pressure clip with knock-in anchor, for 16 cables

PA





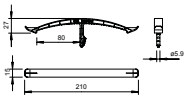
Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2033 SD	16	Light grey	25	2.515	**2204819**
2033 SD SP	16	Light grey	100	2.515	**2204878**

With pre-mounted knock-in anchor, 6 mm Ø.
Required drill hole depth 50 mm.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole 6 mm Ø.

Pressure clip with push-fit anchor

PA





Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2033 STD	16	Light grey	25	1.037	**2204541**

With moulded push-fit plug, 6 mm Ø.

PA

Series pressure clip, light grey

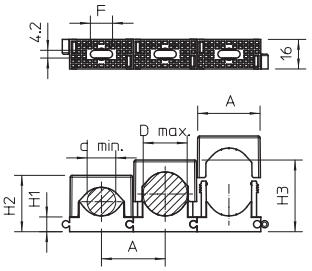
Type	Clamping range D mm	Colour	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
2037 3-7 LGR	3-7	Light grey	1000		100	0.260	**2250071**
2037 6-13 LGR	6-13	Light grey	1200		100	0.359	**2250136**
2037 12-20 LGR	12-20	Light grey	500		50	0.572	**2250209**
2037 16-24 LGR	16-24	Light grey	600		50	0.838	**2250241**
2037 18-30 LGR	18-30	Light grey	300		25	0.997	**2250306**
2037 27-43 LGR	27-43	Light grey	300		25	1.615	**2250438**



Universal clip for the single fastening of cables and pipes, all sizes can be seamlessly expanded among each other, with adhesive foot, slot and for screwing to M6 thread.
To stick the polyamide clips to masonry and concrete, use Impu-Fix ribbon conductor quick adhesive, type 509.
*Sizes 3–7 are not suitable for nail guns.

Type	Clamping range D mm	Dim. A mm	Dim. H1 mm	Dim. H2 mm	Dim. H3 mm	Dim. d min. mm	Dim. d max. mm	Dim. F mm
2037 3-7 LGR	3-7	14.5	7.5	15.5	19.5	3	7	6
2037 6-13 LGR	6-13	20	8.5	20	27	6	13	13
2037 12-20 LGR	12-20	28	8.5	26	34	12	20	14
2037 16-24 LGR	16-24	34.5	8.5	31	39	16	24	12
2037 18-30 LGR	18-30	40	9	34	46	18	30	12
2037 27-43 LGR	27-43	55	10.5	46	62	27	43	15

Dimensions



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Pressure ISO clips

Pressure ISO clip 3050, single, light grey

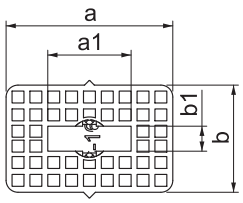
PS

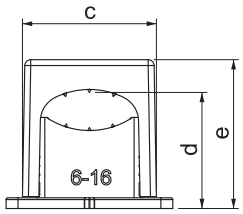


Type	Clamping range D mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
3050 LGR	6-16	Light grey	1200	100	0.400	**2101017**

With adhesive base, slot and for screwing to M6 thread.
Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.

Dimensions





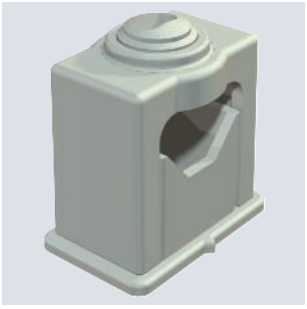
Type	Clamping range D mm	Dim. a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm
3050 LGR	6-16	13	4	28	18	22.5	25	34

PS

Grip ISO clip, single

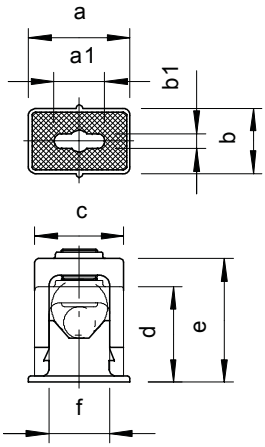
Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3040 LGR	6-16	Light grey	100	0.532	**2105012**
3041 LGR	16-24	Light grey	50	1.168	**2105039**
3042 LGR	24-34	Light grey	25	2.488	**2105055**

Solid cable fastening through clamping screws, with adhesive base, slot and for screwing to M6 thread.
Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.



Type	Clamping range D mm	Dim. a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm	Dim. f mm
3040 LGR	6-16	13.5	4	28	18	24.5	28	35	20
3041 LGR	16-24	20	4.2	35	22	37	36	44	31
3042 LGR	24-34	14	4.2	50	22	48	49	59	40

Dimensions



PS

Grip ISO clip, double

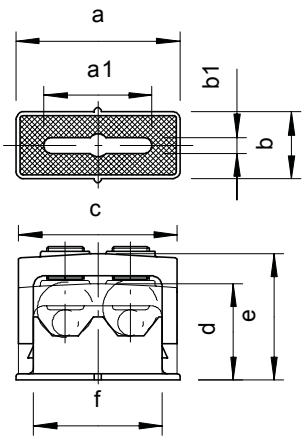
Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3040 2	6-16	Light grey	25	1.184	**2107015**

Solid cable fastening through clamping screws, with adhesive base, slot and for screwing to M6 thread.
Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.



Type	Clamping range D mm	Dim. a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm	Dim. f mm
3040 2	6-16	16	4.2	44	18	43	28	35	38

Dimensions

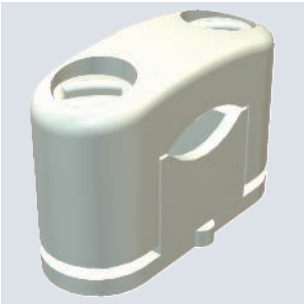


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SOM clips

SOM clip, single

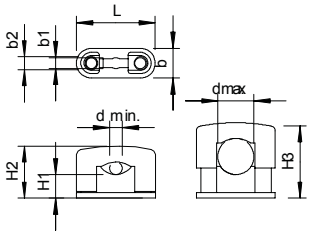
PS



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3079 LGR	5-14	Light grey	50	0.431	**2124149**
3080 LGR	6-17	Light grey	50	0.926	**2124173**
3081 LGR	15-25	Light grey	25	1.860	**2124254**
3082 LGR	22-34	Light grey	25	2.055	**2124343**

With plastic screws, so corrosion-protected, with slot for fastening with wood screws or 5 mm knock-in anchors.

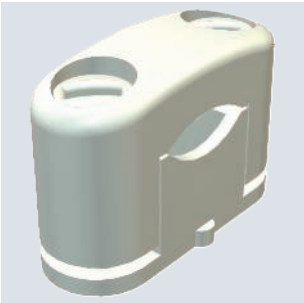
Dimensions



Type	Clamping range D mm	Dim. L mm	Dim. d min. mm	Dim. d max. mm	Dim. H1 mm	Dim. H2 mm	Dim. H3 mm	Dim. b mm	Dim. b1 mm	Bolt
3079 LGR	5-14	31	5	13	10.5	20	29	12	4.2	M5x14
3080 LGR	6-17	37	6	17	11	24.5	35.5	14	4	M6x18
3081 LGR	15-25	51	14	25	11.5	33	44	17	5	M8x23
3082 LGR	22-34	62	22	34	11	40	52	18	5.2	M8x23

SOM clip, single, hardly flammable

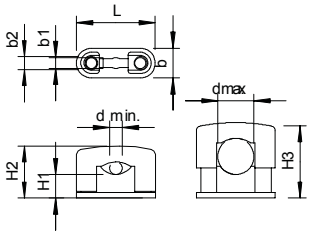
UF



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3083 LGR	32-45	Light grey	20	5.840	**2124459**

With plastic screws, so corrosion-protected, with slot for fastening with wood screws or 5 mm knock-in anchors.
Hardly flammable.

Dimensions



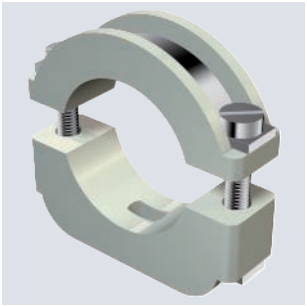
Type	Clamping range D mm	Dim. L mm	Dim. d min. mm	Dim. d max. mm	Dim. H1 mm	Dim. H2 mm	Dim. H3 mm	Dim. b mm	Dim. b1 mm	Bolt
3083 LGR	32-45	77	32	45	12	54	57	21	6.5	M8x40

PS

Lightning ISO clip

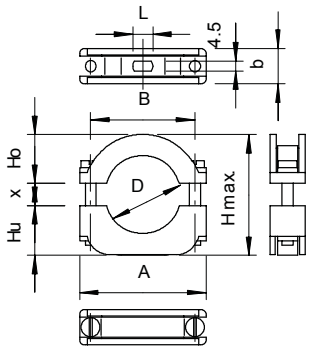
Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3015 34 LGR	24 - 34	Light grey	25	3.620	**2157349**

Lightning ISO clips: plastic clip with metal insert, therefore also suitable for heavy-duty applications; metal parts made of electrogalvanised steel.
3015 with 4.5 mm slot.
*Sizes 6–12 and 10–17 not suitable for bolt-firing device.



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. H mm	Dim. Ho mm	Dim. Hu mm	Dim. L mm	Dim. b mm	Bolt
3015 34 LGR	24 - 34	57	47	54.4	22	22	9	16	M5 x 35

Dimensions



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Base clamp clips

Base clamp clip, single

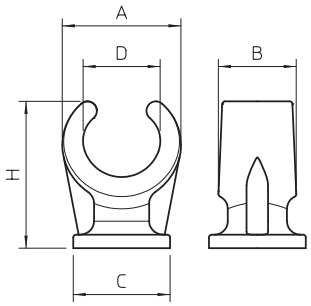
PP



Type	Size	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2962 6 LGR	6	Light grey	1200	100	0.080	**2140063**
2962 8 LGR	8	Light grey	2000	100	0.106	**2140071**
2962 10 LGR	10	Light grey	2400	100	0.136	**2140101**
2962 12 LGR	12	Light grey	1200	100	0.182	**2140128**
2962 15 LGR	14-15	Light grey	1000	100	0.277	**2140152**
2962 18 LGR	16-18	Light grey	1200	100	0.377	**2140187**
2962 22 LGR	19-22	Light grey	500	50	0.514	**2140233**
2962 28 LGR	25-28	Light grey	250	25	0.948	**2140284**
2962 35 LGR	32-35	Light grey	300	25	1.295	**2140357**
2962 42 LGR	40-42	Light grey	300	25	1.709	**2140411**

Can be screwed onto M6 thread.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. H mm
2962 6 LGR	6	11.5	10	15	17
2962 8 LGR	8	14	11	15	19
2962 10 LGR	10	16.5	12	15	20.5
2962 12 LGR	12	19	13	15	23
2962 15 LGR	14 - 15	22	14.5	18	28
2962 18 LGR	16 - 18	24.5	15.5	20	30
2962 22 LGR	19 - 22	29.2	17	22	34
2962 28 LGR	25 - 28	38.8	20	25	41
2962 35 LGR	32 - 35	47	22	32	51
2962 42 LGR	40 - 42	54	23	32	58

Base clamp clip, double

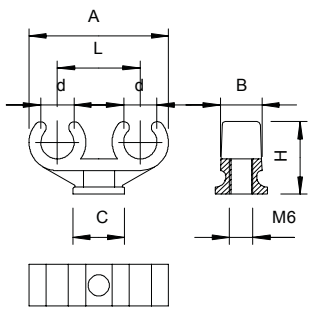
PP



Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2962 2X10	10 + 10	Light grey	100	0.283	**2140608**
2962 2x16	15/16 + 15/16	Light grey	50	0.809	**2140683**
2962 2x22	18/22 + 18/22	Light grey	25	1.064	**2140721**

Can be screwed onto M6 thread.

Dimensions



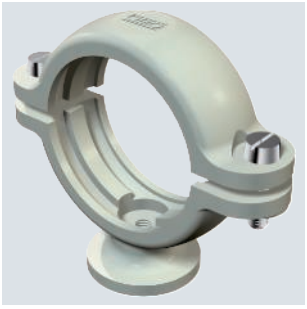
Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. L mm	Dim. H mm
2962 2X10	10	40.5	12	Ø 15	24	21
2962 2x16	15 - 16	57.5	15.5	20 x 33	33	30
2962 2x22	18 - 22	67	17	22 x 38	38	34

PS

ISO base clip

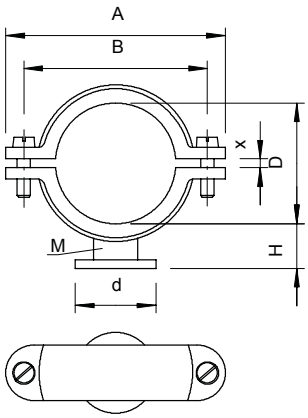
Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2960 22 M6 LGR	20.5-22	Light grey	50	0.951	**2130211**
2960 22 LGR SO	19-22	Light grey	50	1.296	**2136880**

Can be screwed onto M6 thread.



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. x mm	Dim. H mm	Dim. d mm	Thread
2960 22 M6 LGR	20.5-22	50	38	2	14	21	M6
2960 22 LGR SO	19-22	50	38	3.4	14	21	M6

Dimensions



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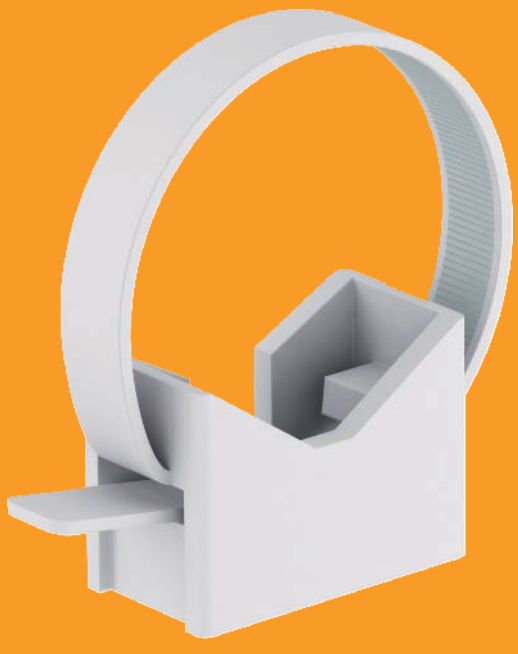
CTC cable tie clip

Fasten cables and up to four pipe sizes quickly, flexibly and reliably with only one cable tie clip.

- Pipe clip with cable tie with internal gear teeth
- Universally applicable for cables and pipes
- Fastening by means of knock-in anchor Ø 5 mm/Ø 6 mm



HALOGEN FREE











PA

650°

CTC cable tie clip

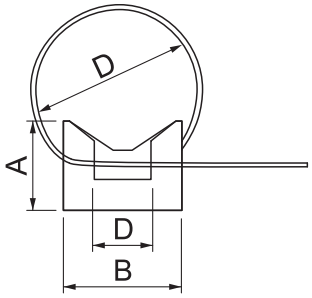
Type	Dimension mm	Max. bundle Ø mm	Minimum breaking load kN	Colour	Pack Piece	Weight kg/100 pc.	Item no.
CTC 7,5x180 LGR	16-32	32	0.36	Light grey	100	0.600	**2332790**
CTC 7,5x280 LGR	40-63	63	0.36	Light grey	100	0.900	**2332794**

With the cable tie clip from OBO Bettermann, you can profit from faster and more reliable fastening of cables and pipes. The internally toothed cable tie ensures a secure hold and can be adapted to up to 4 pipe sizes. The CTC cable tie clip is made of halogen-free polyamide and can thus be used easily in interiors and protected external areas.



Type	Length mm	Width mm	Height mm
CTC 7,5x180 LGR	180	7.5	1.5
CTC 7,5x280 LGR	281	7.5	1.5

Dimensions

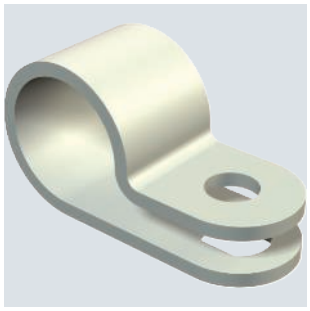


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Fastening clips

Fastening clip

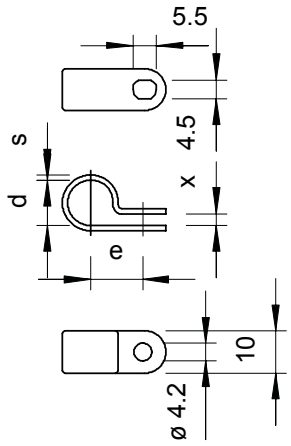
PA



Type	For cable Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
255 3.2 LGR	3.2	Light grey	100	0.039	**2222035**
255 5.2 LGR	5.2	Light grey	100	0.039	**2222051**
255 6.5 LGR	6.5	Light grey	100	0.047	**2222078**
255 8 LGR	8	Light grey	100	0.054	**2222086**
255 9.5 LGR	9.5	Light grey	100	0.063	**2222094**
255 11 LGR	11	Light grey	100	0.073	**2222116**
255 12.5 LGR	12.5	Light grey	100	0.078	**2222124**
255 14 LGR	14	Light grey	100	0.103	**2222140**
255 16 LGR	16	Light grey	100	0.126	**2222167**
255 17.5 LGR	17.5	Light grey	100	0.123	**2222175**

Fastening clip for secure all-round fixing of cables.

Dimensions



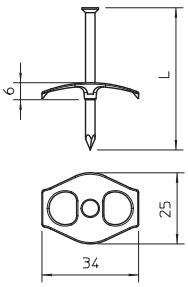
Type	For cable Ø mm	Dim. d mm	Dim. e mm	Dim. s mm	Dim. x mm
255 3.2 LGR	3.2	3	8.5	1	1.8
255 5.2 LGR	5.2	5	9.5	1	1.8
255 6.5 LGR	6.5	6.3	10	1	2.2
255 8 LGR	8	7.8	10	1.2	2.2
255 9.5 LGR	9.5	9.3	11	1.2	2.2
255 11 LGR	11	10.8	13	1.2	2.8
255 12.5 LGR	12.5	12.3	14	1.2	2.8
255 14 LGR	14	13.8	15	1.5	3.2
255 16 LGR	16	15.8	16	1.5	3.2
255 17.5 LGR	17.5	17.2	17	1.5	3.2

Nail clamp

Nail-Fix, with nail

PP





Type	For nail Ø x l mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
1996 40	3 x 40	Transparent	1200	100	0.267	**2222833**
1996 50	3,5 x 50	Transparent	1200	100	0.380	**2222841**
1996 60	3,5 x 60	Transparent	1200	100	0.443	**2222868**
1996 70	3,5 x 70	Transparent	1200	100	0.773	**2222876**

With pre-mounted, galvanised steel nail Ø 3 mm or 3.5 mm to fix cables in masonry slots and on masonry for one or two cables NYM 3 x 1.5/2.5 mm² or one or two cables NYM 5 x 1.5/2.5 mm².

PP

Adhesive clip 2025, light grey

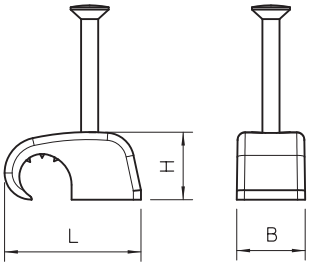
Type	For nail Ø x l mm	For cable Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2025 18 LGR	2 x 18	4 - 7	Light grey	100	0.072	**2228610**
2025 25 LGR	2 x 25	4 - 7	Light grey	100	0.086	**2228629**

Adhesive clip, for clamping to the cable.



Type	Dim. L mm	Dim. B mm	Dim. H mm
2025 18 LGR	14.5	7.2	7.1
2025 25 LGR	14.5	7.2	7.1

Dimensions



PP

Adhesive clip, pure white

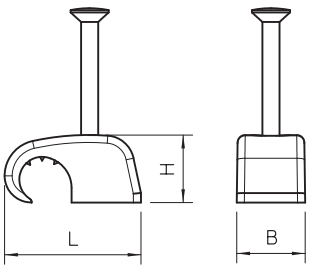
Type	For nail Ø x l mm	For cable Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2025 18 RW	2,0 x 18	4 - 7	Pure white	100	0.072	**2228686**
2025 25 RW	2,0 x 25	4 - 7	Pure white	100	0.086	**2228688**

Adhesive clip, for clamping to the cable.



Type	Dim. L mm	Dim. B mm	Dim. H mm
2025 18 RW	14.5	7.2	7.1
2025 25 RW	14.5	7.2	7.1

Dimensions



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Adhesive clips

Adhesive clip 2026, light grey

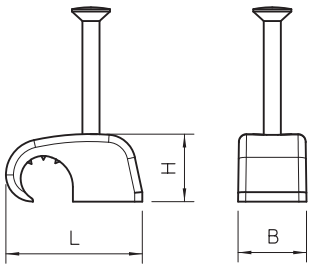
PP



Type	For nail Ø x l mm	For cable Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2026 18 LGR	2 x 18	7 - 12	Light grey	100	0.097	**2228718**
2026 25 LGR	2 x 25	7 - 12	Light grey	100	0.110	**2228726**
2026 25 LGR SP	2 x 25	7 - 12	Light grey	200	0.111	**2228432**
2026 35 LGR	2 x 35	7 - 12	Light grey	100	0.135	**2228734**
2026 35 LGR SP	2 x 35	7 - 12	Light grey	200	0.135	**2228440**
2026 45 LGR	2 x 45	7 - 12	Light grey	100	0.156	**2228750**

Adhesive clip, for clamping to the cable.

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. H mm
2026 18 LGR	19.1	8.3	10.1
2026 25 LGR	19.1	8.3	10.1
2026 25 LGR SP	19.1	8.3	10.1
2026 35 LGR	19.1	8.3	10.1
2026 35 LGR SP	19.1	8.3	10.1
2026 45 LGR	19.1	8.3	10.1

Adhesive clip 2026, pure white

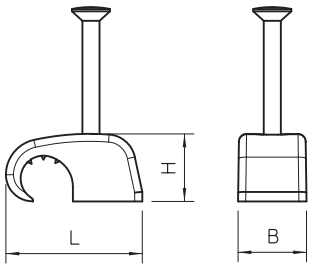
PP



Type	For nail Ø x l mm	For cable Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2026 25 RW	2,0 x 25	7 - 12	Pure white	100	0.111	**2228422**
2026 18 RW	2,0 x 18	7 - 12	Pure white	100	0.097	**2228420**

Adhesive clip, for clamping to the cable.

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. H mm
2026 25 RW	19.1	8.3	10.1
2026 18 RW	19.1	8.3	10.1

PP

Adhesive clip 2027, light grey

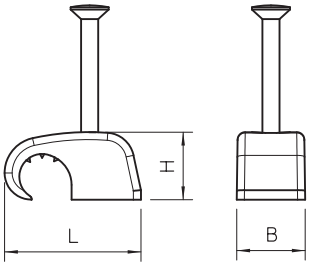
Type	For nail Ø x l mm	For cable Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2027 25 LGR	2,0 x 25	10 - 14	Light grey	100	0.161	**2228823**
2027 30 LGR	2,0 x 30	10 - 14	Light grey	100	0.172	**2228831**
2027 40 LGR	2,0 x 40	10 - 14	Light grey	100	0.196	**2228858**

Adhesive clip, for clamping to the cable.



Type	Dim. L mm	Dim. B mm	Dim. H mm
2027 25 LGR	28	10	13.3
2027 30 LGR	28	10	13.3
2027 40 LGR	28	10	13.3

Dimensions



PP

Adhesive clip, type 2028, light grey

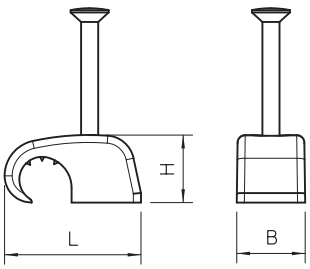
Type	For nail Ø x l mm	For cable Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2028 40 LGR	2,0 x 40	14 - 17	Light grey	100	0.270	**2228904**

Adhesive clip, for clamping to the cable.



Type	Dim. L mm	Dim. B mm	Dim. H mm
2028 40 LGR	32	15	17.8

Dimensions



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ISO nail clips

ISO nail clip 2005

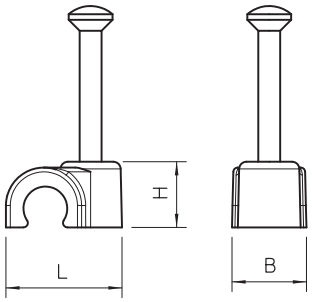
PP



Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2005 18 RW	5	2,0x18	Pure white	100	0.064	**2225379**

ISO nail clip, short design

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. H mm
2005 18 RW	10.8	7.1	7.1

ISO nail clip 2006

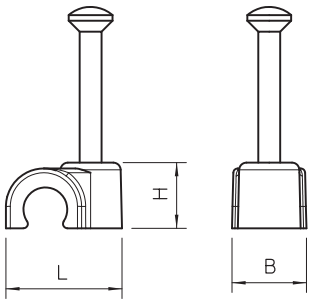
PP



Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2006 25 RW	6	2,0x25	Pure white	100	0.089	**2225417**

ISO nail clip, short design

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. H mm
2006 25 RW	12.5	8	8.1

PP

ISO nail clip 2007

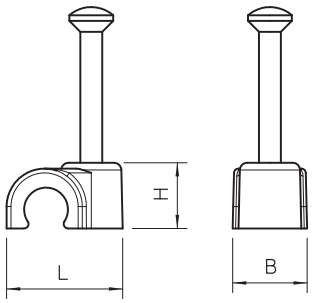
Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2007 25 RW	7	2,0x25	Pure white	100	0.097	**2225514**

ISO nail clip, short design



Type	Dim. L mm	Dim. B mm	Dim. H mm
2007 25 RW	13.7	8	9.4

Dimensions



PP

ISO nail clip 2007

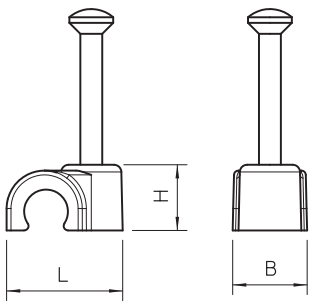
Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2007 25 SW	7	2,0x25	Jet black	100	0.097	**2232146**

ISO nail clip, short design



Type	Dim. L mm	Dim. B mm	Dim. H mm
2007 25 SW	13.7	8	9.4

Dimensions



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ISO nail clips

ISO nail clip 2008

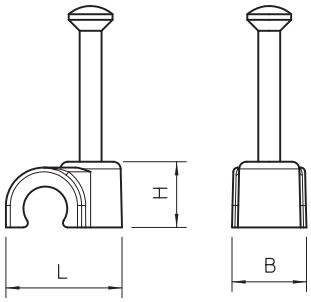
PP



Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2008 35 LGR	8	2,0x35	Light grey	100	0.127	**2227622**

ISO nail clip, short design

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. H mm
2008 35 LGR	15	8	10.6

ISO nail clip 2008

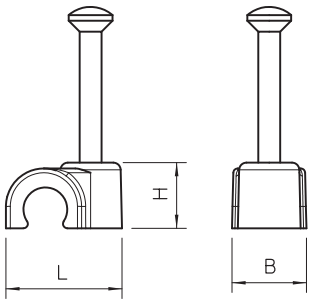
PP



Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2008 25 RW	8	2,0x25	Pure white	100	0.104	**2225611**

ISO nail clip, short design

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. H mm
2008 25 RW	15	8	10.6

PP

ISO nail clip 2008

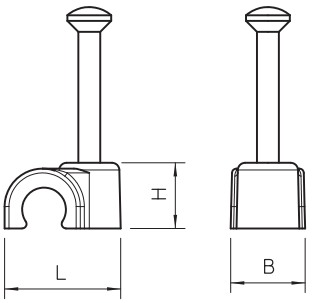
Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2008 25 SW	8	2,0x25	Jet black	100	0.104	**2232170**

ISO nail clip, short design



Type	Dim. L mm	Dim. B mm	Dim. H mm
2008 25 SW	15	8	10.6

Dimensions



PP

ISO nail clip 2009

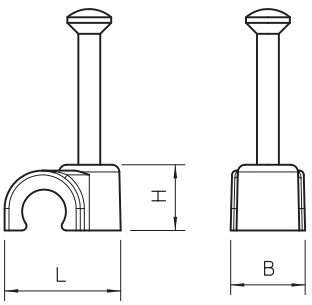
Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2009 25 LGR	9	2,0x25	Light grey	100	0.109	**2227711**
2009 35 LGR	9	2,0x35	Light grey	100	0.134	**2227738**
2009 35 LGR SP	9	2,0x35	Light grey	200	0.132	**2227762**
2009 45 LGR SP	9	2,0x45	Light grey	200	0.155	**2227797**

ISO nail clip, short design



Type	Dim. L mm	Dim. B mm	Dim. H mm
2009 25 LGR	16.1	8	11.6
2009 35 LGR	16.1	8	11.6
2009 35 LGR SP	16.1	8	11.6
2009 45 LGR SP	16.1	8	11.6

Dimensions



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ISO nail clips

ISO nail clip 2009

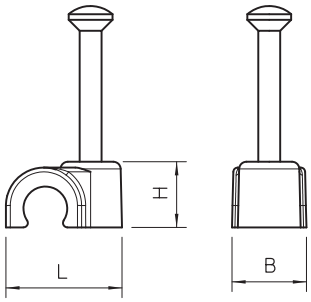
PP



Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2009 25 SW	9	2,0x25	Jet black	100	0.109	**2232219**

ISO nail clip, short design

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. H mm
2009 25 SW	16.1	8	11.6

ISO nail clip 2010

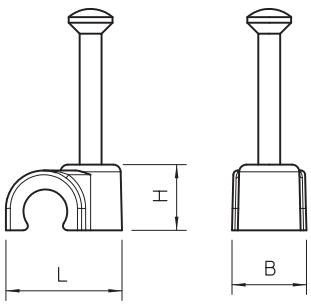
PP



Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2010 25 SW	10	2,0x25	Jet black	100	0.123	**2232235**

ISO nail clip, short design

Dimensions



Type	Dim. L mm	Dim. B mm	Dim. H mm
2010 25 SW	17.7	8	12.7

PP

ISO nail clip 2012

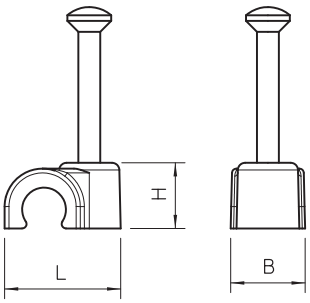
Type	For cable Ø mm	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2012 35 SW	12	2,0x35	Jet black	100	0.169	**2232316**

ISO nail clip, short design



Type	Dim. L mm	Dim. B mm	Dim. H mm
2012 35 SW	19.8	9	14.8

Dimensions



PS

11-12

Series clip

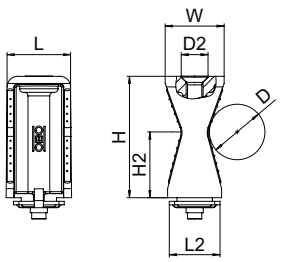
Type	Clamping range D mm	Bolt	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2050 5-25 LGR	5-25	M4 x 30	Light grey	100	0.631	**2254026**

Also suitable for rails of 11 - 12 mm slot width; polystyrene clip element, impact resistant, halogen-free, light grey RAL 7035; metal parts: electrogalvanised steel.



Type	Dim. H mm	Dim. H1 mm	Dim. B mm	Dimension B1 mm	Clamping range D mm
2050 5-25 LGR	24	12.5	14	7.5	5-25

Dimensions



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Series clips

Series clip

PS

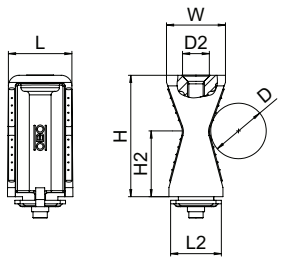
11-12



Type	Clamping range D mm	Bolt	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2051 8-36 LGR	8 - 36	M4 x 40	Light grey	100	0.851	**2254034**

Also suitable for rails of 11 - 12 mm slot width; polystyrene clip element, impact resistant, halogen-free, light grey RAL 7035; metal parts: electrogalvanised steel.

Dimensions



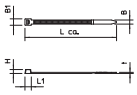
Type	Dim. H mm	Dim. H1 mm	Dim. B mm	Dimension B1 mm	Clamping range D mm
2051 8-36 LGR	34	18	17	7.5	8 - 36

Cable ties

Cable tie, white

PA





Type	Dim. B mm	Dim. L mm	Dim. t mm	Tensile strength N	Max. bundle Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
565 2.5x75 WS	2.5	75	1	80	15	White	100	0.020	**2331800**
565 2.5x100 WS	2.5	100	1	80	22	White	100	0.025	**2331810**
565 2.5x150 WS	2.5	150	1.3	80	39	White	100	0.047	**2331816**
565 2.5x200 WS	2.5	200	1.3	80	55	White	100	0.062	**2331822**
565 3.6x150 WS	3.6	150	1.4	180	36	White	100	0.070	**2331830**
565 3.6x200 WS	3.6	200	1.4	180	52	White	100	0.104	**2331836**
565 3.6x290 WS	3.6	290	1.4	180	82	White	100	0.140	**2331842**
565 3.6x365 WS	3.6	365	1.4	180	105	White	100	0.183	**2331848**
565 4.8x120 WS	4.8	120	1.5	220	27	White	100	0.089	**2331860**
565 4.8x160 WS	4.8	160	1.6	220	39	White	100	0.120	**2331866**
565 4.8x200 WS	4.8	200	1.6	220	52	White	100	0.149	**2331872**
565 4.8x300 WS	4.8	300	1.5	220	83	White	100	0.201	**2331878**
565 4.8x365 WS	4.8	365	1.5	220	105	White	100	0.251	**2331884**
565 4.8x430 WS	4.8	430	1.5	220	125	White	100	0.288	**2331890**
565 7.6x200 WS	7.6	200	1.8	530	52	White	100	0.287	**2331910**
565 7.6x300 WS	7.6	300	1.6	530	80	White	100	0.334	**2331916**
565 7.6x380 WS	7.6	380	1.8	530	105	White	100	0.533	**2331922**
565 7.6x450 WS	7.6	450	2	530	128	White	100	0.717	**2331934**
565 9x760 WS	9	760	2	800	227	White	100	1.311	**2331944**

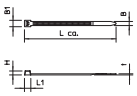
Cable ties are used for quick, uncomplicated fixing or bundling of cables and pipes to cable support systems or other mounting structures.

PA

UV RESISTANT

Cable tie, black, UV and weather-resistant

Type	Dim. B mm	Dim. L mm	Dim. t mm	Tensile strength N	Max. bundle Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
565 2.5x75 SWUV	2.5	75	1	80	15	Black	100	0.020	**2331802**
565 2.5x100 SWUV	2.5	100	1	80	22	Black	100	0.025	**2331812**
565 2.5x150 SWUV	2.5	150	1.3	80	39	Black	100	0.047	**2331818**
565 2.5x200 SWUV	2.5	200	1.3	80	55	Black	100	0.062	**2331824**
565 3.6x150 SWUV	3.6	150	1.4	180	36	Black	100	0.070	**2331832**
565 3.6x200 SWUV	3.6	200	1.4	180	52	Black	100	0.104	**2331838**
565 3.6x290 SWUV	3.6	290	1.4	180	82	Black	100	0.140	**2331844**
565 3.6x365 SWUV	3.6	365	1.4	180	105	Black	100	0.183	**2331850**
565 4.8x120 SWUV	4.8	120	1.5	220	27	Black	100	0.089	**2331862**
565 4.8x160 SWUV	4.8	160	1.6	220	39	Black	100	0.120	**2331868**
565 4.8x200 SWUV	4.8	200	1.6	220	52	Black	100	0.149	**2331874**
565 4.8x300 SWUV	4.8	300	1.5	220	83	Black	100	0.201	**2331880**
565 4.8x365 SWUV	4.8	365	1.5	220	105	Black	100	0.251	**2331886**
565 4.8x430 SWUV	4.8	430	1.5	220	125	Black	100	0.288	**2331892**
565 7.6x200 SWUV	7.6	200	1.8	530	52	Black	100	0.287	**2331912**
565 7.6x300 SWUV	7.6	300	1.6	530	80	Black	100	0.334	**2331918**
565 7.6x380 SWUV	7.6	380	1.8	530	105	Black	100	0.533	**2331924**
565 7.6x450 SWUV	7.6	450	2	530	128	Black	100	0.717	**2331936**
565 9x760 SWUV	9	760	2	800	227	Black	100	1.311	**2331946**





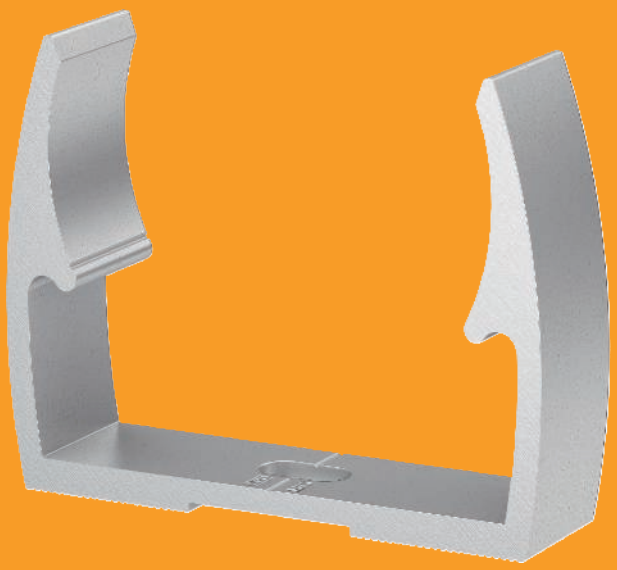
Cable ties are used for quick, uncomplicated fixing or bundling of cables and pipes to cable support systems or other mounting structures.

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Quick clip, aluminium

OBO's aluminium Quick clip offers installers a high-quality means of fastening electrical installation pipes. The ingenious design of this product allows fast, easy installation on walls and ceilings. The clip boasts impressively high holding forces.

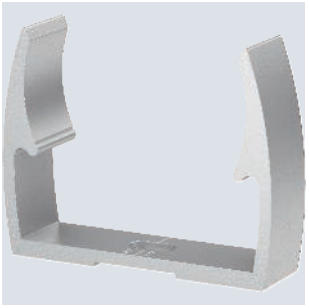


- Strong clip holding forces thanks to optimised geometry
- Centre mark around slot for easy alignment
- Pipe centring aids for easy insertion of the pipe
- Modern, attractive design

Alu

Quick clip, aluminium

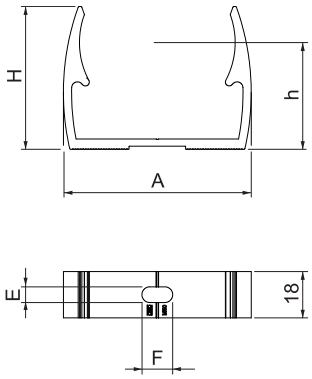
Type	Nominal size	Shipping box Piece		Pack Piece	Weight kg/100 pc.	Item no.
ALQ M20	20	1200		100	0.900	**2149920**
ALQ M50	50	300		25	2.730	**2149950**
ALQ M63	63	20		20	3.340	**2149963**



OBO Quick clip, type ALQ M, for all metric ALU pipe systems, as well as light-duty and heavy-duty insulation pipes. Suitable for mounting the OBO pipe system, material: aluminium. Pipe centring aids allow optimal attachment of the pipe and automatically turn the clip into the correct position.
Slot for side alignment during mounting with wood screw or knock-in anchor.
Recommended fastening spacing 50–60 cm.

Type	Dim. A mm	Dim. B mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm
ALQ M20	25	18	5.1	9.5	27.5	20
ALQ M50	60	18	6.1	12	46.5	33.5
ALQ M63	73	18	6.1	12	55.5	41.5

Dimensions



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Grip cable tidy, metal

E30 E90



The movable closing strap means that the Grip cable tidy can be opened and closed again and again with just the application of light pressure. This means that you can remove a cable easily and at any time from fixed wall and ceiling installations, or also install a new cable at a later date.

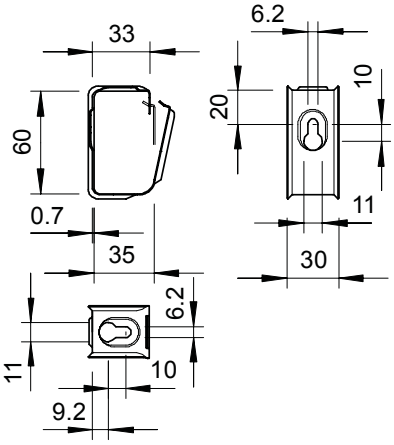
- Ingenious design means both wall and ceiling mounting are possible
- Easy cable insertion
- Extremely sturdy click-in connector means retroinstalling cables is no problem
- UL-tested quality
- Also available in stainless steel qualities A2 and A4
- Tested for the maintenance of electrical functionality
- Halogen and fire load-free

St A2 FS 2B

E30 E90

Grip collection clamp, metal 15

Type	No. of conductors NYM 3 x 1.5	BS	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 15 FS	15		50	50	3.700	**2207028**
2031 M 15 A2	15		50	50	3.000	**2207080**





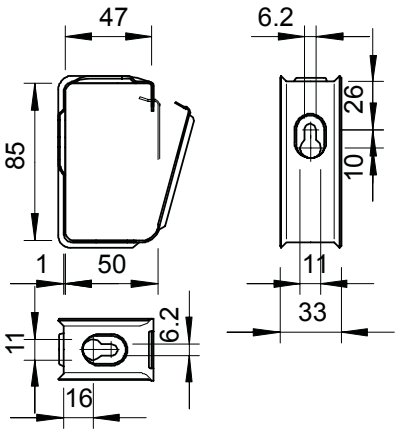
Metal cable tidy for high mechanical stability, even in case of fire. Suitable for safe mounting above fire protection ceilings. Also approved as a cable-specific variant for the maintenance of electrical function to DIN 4102 part 12. For wall and ceiling mounting. Lock can be opened without tools. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

St A2 FS 2B

E30 E90

Grip collection clamp, metal 30

Type	No. of conductors NYM 3 x 1.5	BS	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 30 FS	30		25	25	6.200	**2207036**
2031 M 30 A2	30		25	25	6.500	**2207088**





Metal grouped support for high mechanical stability, even in case of fire. Suitable for safe mounting above fire protection ceilings. Also approved as a cable-specific variant for the maintenance of electrical function to DIN 4102 part 12. For wall and ceiling mounting. Lock can be opened without tools. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

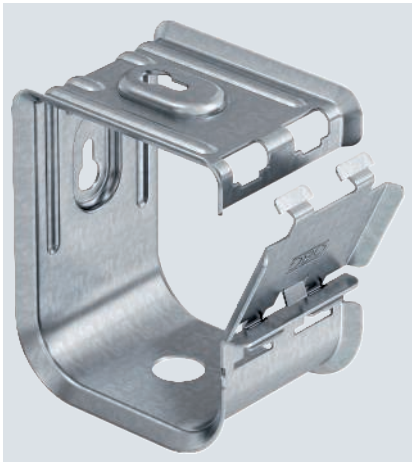
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Grip cable tidies, metal

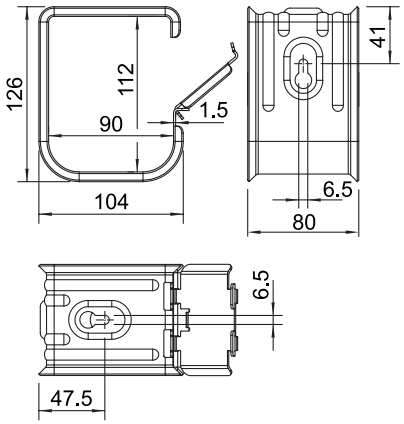
Grip collection clamp, metal 70

St A2 FS 2B

CE E30 E90 cULus LISTED



Type	No. of conductors NYM 3 x 1.5	BS	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 70 FS	70		10	10	34.500	**2207060**
2031 M 70 A2	70		10	10	37.000	**2207112**



Metal grouped support for high mechanical stability, even in case of fire. Suitable for safe mounting above fire protection ceilings. Also approved as a cable-specific variant for the maintenance of electrical function to DIN 4102 part 12. For wall and ceiling mounting. Lock can be opened without tools. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

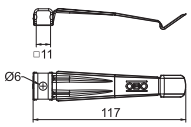
Pressure clips, metal

Pressure clip for 8 cables

VA 2B

CE E30





Type	No. of conductors NYM 3 x 1.5	BS	Pack Piece	Weight kg/100 pc.	Item no.
2035 M A2	8		20	1.030	**2204020**

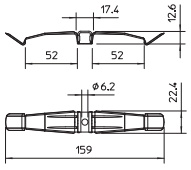
The metal pressure clip is halogen and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for the maintenance of electrical functionality to DIN 4102 Part 12. The spacer 2033 D 15 x 3 G (must be ordered separately) increases the clamping height of pressure clips from 10 to 13 mm. The pressure clips are suitable for fireproof mounting above suspended fire protection ceilings in accordance with DIN 4102.

Pressure clip for 10 cables

VA 2B

CE E30





Type	No. of conductors NYM 3 x 1.5	BS	Pack Piece	Weight kg/100 pc.	Item no.
2034 M A2	10		50	1.860	**2204010**

The metal pressure clip is halogen and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for the maintenance of electrical functionality to DIN 4102 Part 12. The spacer 2033 D 15 x 3 G (must be ordered separately) increases the clamping height of pressure clips from 10 to 13 mm. The pressure clips are suitable for fireproof mounting above suspended fire protection ceilings in accordance with DIN 4102.

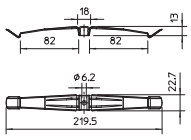
VA 2B

E30

Pressure clip for 16 cables

Type	No. of conductors NYM 3 x 1.5	BS	Pack Piece	Weight kg/100 pc.	Item no.
2033 M A2	16		25	2.310	**2204000**

The metal pressure clip is halogen and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for the maintenance of electrical functionality to DIN 4102 Part 12. The spacer 2033 D 15 x 3 G (must be ordered separately) increases the clamping height of pressure clips from 10 to 13 mm. The pressure clips are suitable for fireproof mounting above suspended fire protection ceilings in accordance with DIN 4102.



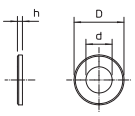


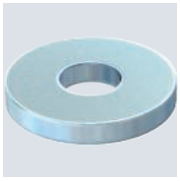
St G

Spacer

Type	Dim. D mm	Dim. d mm	Dim. h mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2033 D 15x3 G	15	6.4	3	3000	50	0.340	**2205097**

To increase the clamping height of pressure clips from 10 to 13 mm for large cable cross-sections.





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Cable and pipe spacer clip 732 with M6 threaded connection

- Safe fastening of cables and pipe systems on walls, on floors and on ceilings
- The distance from the fastening substrate can be adjusted variably using the thread on the screw or a custom-length threaded rod
- M6 bolt ties, angler anchors or Sprint screws (to be ordered separately) are required for fastening
- Tested and approved in systems for maintaining electrical functionality of classes E30 to E90 according to DIN 4102 Part 12



E30 E90



Cable and pipe spacer clip 733

- Closed cable and pipe spacer clip 733 with slot
- Safe fastening of cables and pipe systems on walls, on floors and on ceilings
- Tested and approved in systems for maintaining electrical functionality of classes E30 to E90 according to DIN 4102 Part 12



E30 E90

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Cable and pipe spacer clips

Safe fastening of cables and pipe systems on walls, on floors and on ceilings. The distance from the fastening substrate can be adjusted variably using the thread on the screw or a custom-length threaded rod. M6 bolt ties, angler anchors or Sprint screws (to be ordered separately) are required for fastening. Tested and approved in systems for maintaining electrical functionality of classes E30 to E90 according to DIN 4102 Part 12.

Cable and pipe spacer clip 732 with M6 threaded connection



E30 E90



Cable and pipe spacer clip 733

St G

E30 E60 E90

Spacer clip 732

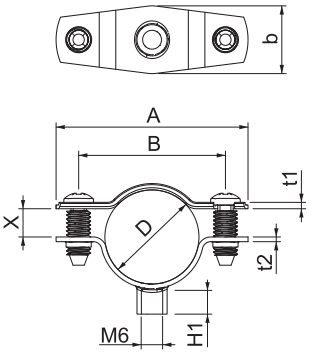
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 G	5-6	25	1.136	**1362404**
ASG 732 7 G	6-7	25	1.341	**1362406**
ASG 732 8 G	7-8	25	1.349	**1362408**
ASG 732 10 G	8-10	25	1.504	**1362410**
ASG 732 12 G	10-12	25	1.567	**1362412**
ASG 732 14 G	12-14	25	1.638	**1362414**
ASG 732 17 G	14-17	25	1.793	**1362417**
ASG 732 20 G	17-20	25	1.895	**1362420**
ASG 732 25 G	20-25	25	2.145	**1362424**
ASG 732 30 G	25-30	20	3.157	**1362428**
ASG 732 36 G	30-36	20	3.664	**1362432**
ASG 732 44 G	36-44	20	4.002	**1362436**
ASG 732 53 G	44-53	20	4.713	**1362440**
ASG 732 63 G	53-63	20	5.231	**1362444**



Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via attachment piece with internal thread.
Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. x mm	Dim. b mm	Dim. t1 mm	Dim. t2 mm	Dim. H1 mm
ASG 732 6 G	5-6	35	23	1.5	18	1	1.25	6.5
ASG 732 7 G	6-7	35	23	1.5	18	1	1.25	6.5
ASG 732 8 G	7-8	35	23	1.5	18	1	1.25	6.5
ASG 732 10 G	8-10	37	25	3	18	1	1.25	6.5
ASG 732 12 G	10-12	39	27	3	18	1	1.25	6.5
ASG 732 14 G	12-14	41	29	3	18	1.25	1.25	6.5
ASG 732 17 G	14-17	44	32	4.5	18	1.25	1.25	6.5
ASG 732 20 G	17-20	47	35	4.5	18	1.25	1.25	6.5
ASG 732 25 G	20-25	51	39	7.5	18	1.25	1.25	6.5
ASG 732 30 G	25-30	59	45	7.5	18	1.5	1.5	6.5
ASG 732 36 G	30-36	65	51	9	18	1.5	1.5	6.5
ASG 732 44 G	36-44	73	59	12	18	1.5	1.5	6.5
ASG 732 53 G	44-53	84	70	13.5	18	1.5	1.5	6.5
ASG 732 63 G	53-63	94	80	15	18	1.5	1.5	6.5

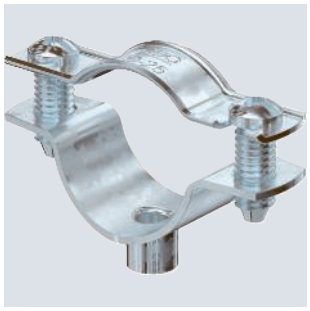
Dimensions



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Spacer clip 732

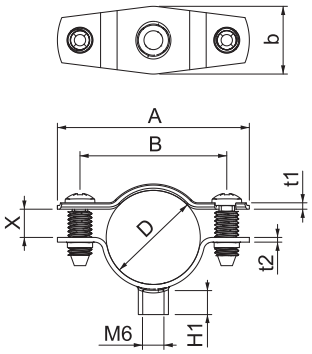
St FT
E30 E60 E90



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 FT	5-6	25	1.398	**1362354**
ASG 732 7 FT	6-7	25	1.415	**1362356**
ASG 732 8 FT	7-8	25	1.424	**1362358**
ASG 732 10 FT	8-10	25	1.585	**1362360**
ASG 732 12 FT	10-12	25	1.653	**1362362**
ASG 732 14 FT	12-14	25	1.729	**1362364**
ASG 732 17 FT	14-17	25	1.892	**1362367**
ASG 732 20 FT	17-20	25	2.002	**1362369**
ASG 732 25 FT	20-25	25	2.261	**1362372**
ASG 732 30 FT	25-30	20	3.309	**1362374**
ASG 732 36 FT	30-36	20	3.840	**1362378**
ASG 732 44 FT	36-44	20	4.197	**1362382**
ASG 732 53 FT	44-53	20	4.942	**1362386**
ASG 732 63 FT	53-63	20	5.492	**1362389**

Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Surfaces G and FT from a clip size of 20 are suitable for installation with a nail device or a bolt-firing tool.
Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. x mm	Dim. b mm	Dim. t1 mm	Dim. t2 mm	Dim. H1 mm
ASG 732 6 FT	5-6	35	23	1.5	18	1	1.25	6.5
ASG 732 7 FT	6-7	35	23	1.5	18	1	1.25	6.5
ASG 732 8 FT	7-8	35	23	1.5	18	1	1.25	6.5
ASG 732 10 FT	8-10	37	25	3	18	1	1.25	6.5
ASG 732 12 FT	10-12	39	27	3	18	1	1.25	6.5
ASG 732 14 FT	12-14	41	29	3	18	1.25	1.25	6.5
ASG 732 17 FT	14-17	44	32	4.5	18	1.25	1.25	6.5
ASG 732 20 FT	17-20	47	35	4.5	18	1.25	1.25	6.5
ASG 732 25 FT	20-25	51	39	7.5	18	1.25	1.25	6.5
ASG 732 30 FT	25-30	59	45	7.5	18	1.5	1.5	6.5
ASG 732 36 FT	30-36	65	51	9	18	1.5	1.5	6.5
ASG 732 44 FT	36-44	73	59	12	18	1.5	1.5	6.5
ASG 732 53 FT	44-53	84	70	13.5	18	1.5	1.5	6.5
ASG 732 63 FT	53-63	94	80	15	18	1.5	1.5	6.5

A2

E30 E60 E90

Spacer clip 732

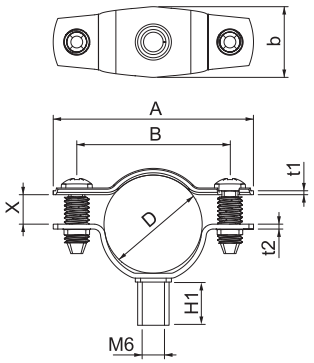
Type	Clamping range D mm		Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 A2	5-6		25	1.537	**1362622**
ASG 732 7 A2	6-7		25	1.553	**1362624**
ASG 732 8 A2	7-8		25	1.561	**1362626**
ASG 732 10 A2	8-10		25	1.749	**1362628**
ASG 732 12 A2	10-12		25	1.796	**1362630**
ASG 732 14 A2	12-14		25	1.859	**1362632**
ASG 732 17 A2	14-17		25	2.007	**1362634**
ASG 732 20 A2	17-20		25	2.110	**1362636**
ASG 732 25 A2	20-25		25	2.361	**1362638**
ASG 732 30 A2	25-30		20	3.321	**1362640**
ASG 732 36 A2	30-36		20	3.728	**1362642**
ASG 732 44 A2	36-44		20	4.099	**1362644**
ASG 732 53 A2	44-53		20	4.781	**1362646**
ASG 732 63 A2	53-63		20	5.301	**1362648**



Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Surfaces G and FT from a clip size of 20 are suitable for installation with a nail device or a bolt-firing tool.
Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90.

Dimensions

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. x mm	Dim. b mm	Dim. t1 mm	Dim. t2 mm	Dim. H1 mm
ASG 732 6 A2	5-6	35	23	1.5	18	1	1.25	12
ASG 732 7 A2	6-7	35	23	1.5	18	1	1.25	12
ASG 732 8 A2	7-8	35	23	1.5	18	1	1.25	12
ASG 732 10 A2	8-10	37	25	3	18	1	1.25	12
ASG 732 12 A2	10-12	39	27	3	18	1	1.25	12
ASG 732 14 A2	12-14	41	29	3	18	1.25	1.25	12
ASG 732 17 A2	14-17	44	32	4.5	18	1.25	1.25	12
ASG 732 20 A2	17-20	47	35	4.5	18	1.25	1.25	12
ASG 732 25 A2	20-25	51	39	7.5	18	1.25	1.25	12
ASG 732 30 A2	25-30	59	45	7.5	18	1.5	1.5	12
ASG 732 36 A2	30-36	65	51	9	18	1.5	1.5	12
ASG 732 44 A2	36-44	73	59	12	18	1.5	1.5	12
ASG 732 53 A2	44-53	84	70	13.5	18	1.5	1.5	12
ASG 732 63 A2	53-63	94	80	15	18	1.5	1.5	12



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Spacer clip 732

A4

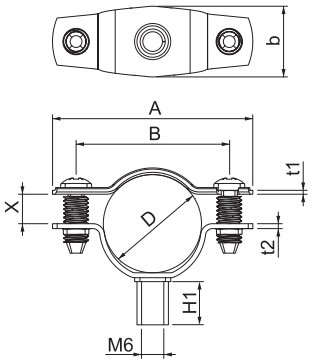
E30 E60 E90



Type	Clamping range D mm		Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 A4	5-6		25	1.558	**1362454**
ASG 732 7 A4	6-7		25	1.574	**1362456**
ASG 732 8 A4	7-8		25	1.582	**1362458**
ASG 732 10 A4	8-10		25	1.773	**1362460**
ASG 732 12 A4	10-12		25	1.821	**1362462**
ASG 732 14 A4	12-14		25	1.885	**1362464**
ASG 732 17 A4	14-17		25	2.035	**1362467**
ASG 732 20 A4	17-20		25	2.139	**1362469**
ASG 732 25 A4	20-25		25	2.394	**1362472**
ASG 732 30 A4	25-30		20	3.370	**1362474**
ASG 732 36 A4	30-36		20	3.782	**1362478**
ASG 732 44 A4	36-44		20	4.158	**1362482**
ASG 732 53 A4	44-53		20	4.851	**1362486**
ASG 732 63 A4	53-63		20	5.379	**1362489**

Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via attachment piece with internal thread.
Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. x mm	Dim. b mm	Dim. t1 mm	Dim. t2 mm	Dim. H1 mm
ASG 732 6 A4	5-6	35	23	1.5	18	1	1.25	12
ASG 732 7 A4	6-7	35	23	1.5	18	1	1.25	12
ASG 732 8 A4	7-8	35	23	1.5	18	1	1.25	12
ASG 732 10 A4	8-10	37	25	3	18	1	1.25	12
ASG 732 12 A4	10-12	39	27	3	18	1	1.25	12
ASG 732 14 A4	12-14	41	29	3	18	1.25	1.25	12
ASG 732 17 A4	14-17	44	32	4.5	18	1.25	1.25	12
ASG 732 20 A4	17-20	47	35	4.5	18	1.25	1.25	12
ASG 732 25 A4	20-25	51	39	7.5	18	1.25	1.25	12
ASG 732 30 A4	25-30	59	45	7.5	18	1.5	1.5	12
ASG 732 36 A4	30-36	65	51	9	18	1.5	1.5	12
ASG 732 44 A4	36-44	73	59	12	18	1.5	1.5	12
ASG 732 53 A4	44-53	84	70	13.5	18	1.5	1.5	12
ASG 732 63 A4	53-63	94	80	15	18	1.5	1.5	12

St G

E30 E60 E90

Spacer clip 733

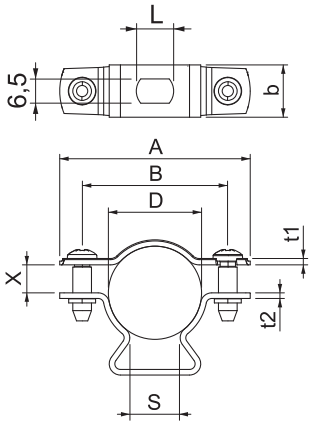
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 G	8-10	25	1.794	**1362754**
ASL 733 12 G	10-12	25	1.857	**1362756**
ASL 733 14 G	12-14	25	1.936	**1362758**
ASL 733 17 G	14-17	25	2.099	**1362762**
ASL 733 20 G	17-20	25	2.201	**1362764**
ASL 733 25 G	20-25	25	2.419	**1362768**
ASL 733 30 G	25-30	20	3.401	**1362772**
ASL 733 36 G	30-36	20	3.774	**1362776**
ASL 733 44 G	36-44	20	4.151	**1362780**
ASL 733 53 G	44-53	20	5.616	**1362784**
ASL 733 63 G	53-63	20	6.212	**1362788**



Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via slot.
Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Type	Dim. A mm	Dim. B mm	Dim. x mm	Dim. t1 mm	Dim. t2 mm	Dim. L mm	Dim. b mm	Dim. s mm
ASL 733 10 G	37	25	3	1	1.5	10	16	5.5
ASL 733 12 G	39	27	3	1	1.5	10	14	6.9
ASL 733 14 G	41	29	3	1.25	1.5	10	14	8
ASL 733 17 G	44	32	4.5	1.25	1.5	10	14	9.5
ASL 733 20 G	47	35	4.5	1.25	1.5	10	14	12
ASL 733 25 G	51	39	7.5	1.25	1.5	10	14	13.5
ASL 733 30 G	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 G	65	51	9	1.5	1.5	10	16	20
ASL 733 44 G	73	59	12	1.5	1.5	10	16	24
ASL 733 53 G	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 G	94	80	15	1.5	2	10	16	35.3

Dimensions



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Spacer clip 733

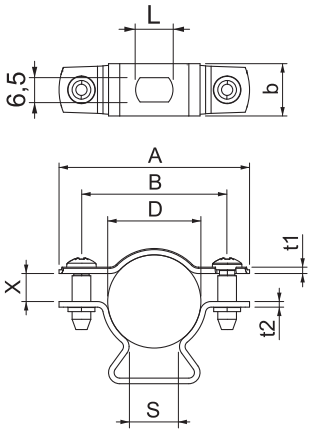
St FT
E30 E60 E90



Type	Clamping range D mm		Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 FT	8-10		25	1.883	**1362704**
ASL 733 12 FT	10-12		25	1.951	**1362706**
ASL 733 14 FT	12-14		25	2.035	**1362708**
ASL 733 17 FT	14-17		25	2.206	**1362712**
ASL 733 20 FT	17-20		25	2.000	**1362714**
ASL 733 25 FT	20-25		25	2.540	**1362718**
ASL 733 30 FT	25-30		20	3.567	**1362722**
ASL 733 36 FT	30-36		20	3.956	**1362726**
ASL 733 44 FT	36-44		20	4.356	**1362730**
ASL 733 53 FT	44-53		20	5.850	**1362734**
ASL 733 63 FT	53-63		20	6.477	**1362738**

Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via slot.
Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. x mm	Dim. t1 mm	Dim. t2 mm	Dim. L mm	Dim. b mm	Dim. s mm
ASL 733 10 FT	37	25	3	1	1.5	10	16	5.5
ASL 733 12 FT	39	27	3	1	1.5	10	14	6.9
ASL 733 14 FT	41	29	3	1.25	1.5	10	14	8
ASL 733 17 FT	44	32	4.5	1.25	1.5	10	14	9.5
ASL 733 20 FT	47	35	4.5	1.25	1.5	10	14	12
ASL 733 25 FT	51	39	7.5	1.25	1.5	10	14	13.5
ASL 733 30 FT	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 FT	65	51	9	1.5	1.5	10	16	20
ASL 733 44 FT	73	59	12	1.5	1.5	10	16	24
ASL 733 53 FT	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 FT	94	80	15	1.5	2	10	16	35.3

A2

E30 E60 E90

Spacer clip 733

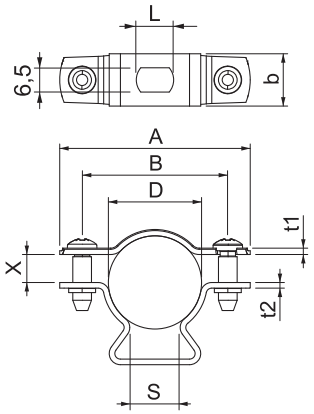
Type	Clamping range D mm		Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 A2	8-10		25	1.804	**1362976**
ASL 733 12 A2	10-12		25	1.867	**1362978**
ASL 733 14 A2	12-14		25	1.946	**1362980**
ASL 733 17 A2	14-17		25	2.110	**1362982**
ASL 733 20 A2	17-20		25	2.213	**1362984**
ASL 733 25 A2	20-25		25	2.432	**1362986**
ASL 733 30 A2	25-30		20	3.416	**1362988**
ASL 733 36 A2	30-36		20	3.792	**1362990**
ASL 733 44 A2	36-44		20	4.170	**1362992**
ASL 733 53 A2	44-53		20	5.643	**1362994**
ASL 733 63 A2	53-63		20	6.242	**1362996**



Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via slot.
Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Dimensions

Type	Dim. A mm	Dim. B mm	Dim. x mm	Dim. t1 mm	Dim. t2 mm	Dim. L mm	Dim. b mm	Dim. s mm
ASL 733 10 A2	37	25	3	1	1.5	10	16	5.5
ASL 733 12 A2	39	27	3	1	1.5	10	14	6.9
ASL 733 14 A2	41	29	3	1.25	1.5	10	14	8
ASL 733 17 A2	44	32	4.5	1.25	1.5	10	14	9.5
ASL 733 20 A2	47	35	4.5	1.25	1.5	10	14	12
ASL 733 25 A2	51	39	7.5	1.25	1.5	10	14	13.5
ASL 733 30 A2	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 A2	65	51	9	1.5	1.5	10	16	20
ASL 733 44 A2	73	59	12	1.5	1.5	10	16	24
ASL 733 53 A2	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 A2	94	80	15	1.5	2	10	16	35.3



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Spacer clip 733

A4

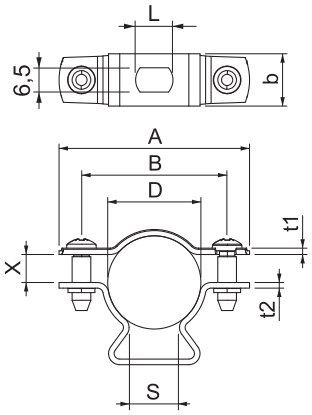
E30 E60 E90



Type	Clamping range D mm		Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 A4	8-10		25	1.828	**1362904**
ASL 733 12 A4	10-12		25	1.893	**1362906**
ASL 733 14 A4	12-14		25	1.973	**1362908**
ASL 733 17 A4	14-17		25	2.139	**1362912**
ASL 733 20 A4	17-20		25	2.243	**1362914**
ASL 733 25 A4	20-25		25	2.466	**1362918**
ASL 733 30 A4	25-30		20	3.466	**1362922**
ASL 733 36 A4	30-36		20	3.846	**1362926**
ASL 733 44 A4	36-44		20	4.230	**1362930**
ASL 733 53 A4	44-53		20	5.723	**1362934**
ASL 733 63 A4	53-63		20	6.331	**1362938**

Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via slot.
Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. x mm	Dim. t1 mm	Dim. t2 mm	Dim. L mm	Dim. b mm	Dim. s mm
ASL 733 10 A4	37	25	3	1	1.5	10	16	5.5
ASL 733 12 A4	39	27	3	1	1.5	10	14	6.9
ASL 733 14 A4	41	29	3	1.25	1.5	10	14	8
ASL 733 17 A4	44	32	4.5	1.25	1.5	10	14	9.5
ASL 733 20 A4	47	35	4.5	1.25	1.5	10	14	12
ASL 733 25 A4	51	39	7.5	1.25	1.5	10	14	13.5
ASL 733 30 A4	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 A4	65	51	9	1.5	1.5	10	16	20
ASL 733 44 A4	73	59	12	1.5	1.5	10	16	24
ASL 733 53 A4	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 A4	94	80	15	1.5	2	10	16	35.3

Alu

Spacer clip 733

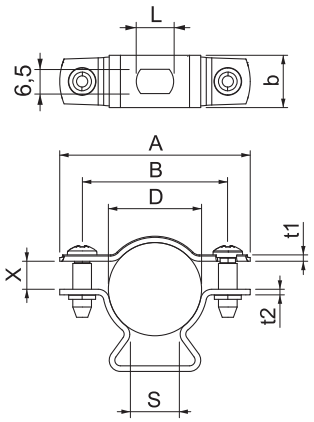
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 ALU	8-10	25	0.917	**1362804**
ASL 733 12 ALU	10-12	25	0.938	**1362806**
ASL 733 14 ALU	12-14	25	0.965	**1362808**
ASL 733 17 ALU	14-17	25	1.062	**1362812**
ASL 733 20 ALU	17-20	25	1.097	**1362814**
ASL 733 25 ALU	20-25	25	1.254	**1362818**
ASL 733 30 ALU	25-30	20	1.592	**1362822**
ASL 733 36 ALU	30-36	20	1.802	**1362826**
ASL 733 44 ALU	36-44	20	1.931	**1362830**
ASL 733 53 ALU	44-53	20	2.537	**1362834**
ASL 733 63 ALU	53-63	20	2.742	**1362838**



Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking upper part. Fastening via slot. From the clip size of 20 suitable for installation with a nail device or bolt-firing device.
Approved for the maintenance of electrical function to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90 (except ALU).

Type	Dim. A mm	Dim. B mm	Dim. x mm	Dim. t1 mm	Dim. t2 mm	Dim. L mm	Dim. b mm	Dim. s mm
ASL 733 10 ALU	37	25	3	1	1.5	10	16	5.5
ASL 733 12 ALU	39	27	3	1	1.5	10	14	6.9
ASL 733 14 ALU	41	29	3	1.25	1.5	10	14	8
ASL 733 17 ALU	44	32	4.5	1.25	1.5	10	14	9.5
ASL 733 20 ALU	47	35	4.5	1.25	1.5	10	14	12
ASL 733 25 ALU	51	39	7.5	1.25	1.5	10	14	13.5
ASL 733 30 ALU	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 ALU	65	51	9	1.5	1.5	10	16	20
ASL 733 44 ALU	73	59	12	1.5	1.5	10	16	24
ASL 733 53 ALU	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 ALU	94	80	15	1.5	2	10	16	35.3

Dimensions

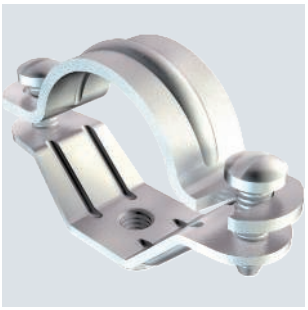


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Screw-in spacer clips

Screw-in spacer clip, universal

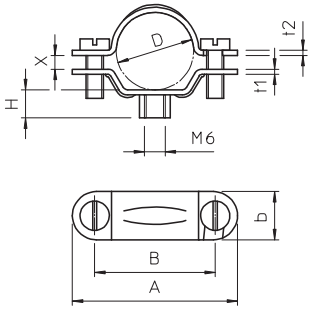
St G



Type	Clamping range D mm	Size	Bolt	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2900 M6 13-16 G	13.5-16	M16	M5 x 14	500	50	2.280	**1383094**
2900 M6 16-19 G	16.5-19	Pg 11	M5 x 14	500	50	2.320	**1383116**
2900 M6 18-21 G	18-21	M20	M5 x 14	500	50	2.340	**1383132**
2900 M6 19-23 G	19-23	Pg 16	M5 x 14	500	50	2.400	**1383167**
2900 M6 24-29 G	24-29	M25	M5 x 14	400	50	3.320	**1383213**
2900 M6 33-38 G	33-38	Pg 29	M5 x 14	250	25	5.830	**1383310**
2900 M6 30-34 G	30-34	M32	M5 x 14	50	50	4.950	**1383299**
2900 M6 39-42 G	39-42	M40	M5 x 16	300	25	5.490	**1383418**
2900 M6 43-48 G	43-48	Pg 36	M5 x 14	240	20	6.330	**1383361**
2900 M6 49-55 G	49-55	M50	M6 x 15	240	20	9.300	**1383426**
2900 M6 54-60 G	54-60	Pg 48	M6 x 15	240	20	8.970	**1383485**
2900 M6 61-64 G	61-64	M63	M6 x 16	240	20	8.090	**1383507**

With M6 thread.

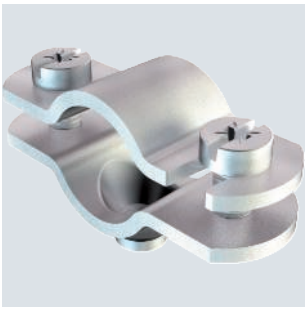
Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. t1 mm	Dim. t2 mm	Dim. H mm	Dim. x mm
2900 M6 13-16 G	13.5-16	48	35	14	1.5	1.5	9	2.2
2900 M6 16-19 G	16.5-19	48	35	14	1.5	1.5	9	2.6
2900 M6 18-21 G	18-21	48	35	14	1.5	1.5	9	2.9
2900 M6 19-23 G	19-23	48	35	14	1.5	1.5	9	4
2900 M6 24-29 G	24-29	60	47	14	1.5	2	7.5	4.6
2900 M6 33-38 G	33-38	79	64	16	2	2	6.5	3.5
2900 M6 30-34 G	30-34	68	54	16	2	2	8	5
2900 M6 39-42 G	39-42	79	64	16	2	2	6.5	5
2900 M6 43-48 G	43-48	79	64	16	2	2	8	5
2900 M6 49-55 G	49-55	102	86	18	2	2	8	5.5
2900 M6 54-60 G	54-60	102	86	18	2	2	8	6.3
2900 M6 61-64 G	61-64	106.5	90.5	18	2	2	6.5	6

Screw-in spacer clip

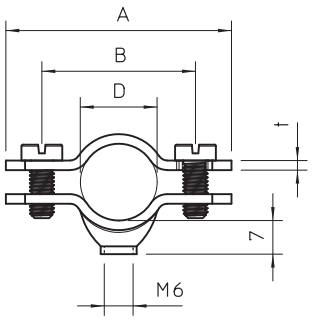
St G



Type	Clamping range D mm	Bolt	Pack Piece	Weight kg/100 pc.	Item no.
731 W 12 G	8-12	M5 x 12	50	2.470	**1366122**
731 W 16 G	12-16	M5 x 12	50	2.816	**1366165**
731 W 20 G	16-20	M5 x 14	50	3.124	**1366203**
731 W 25 G	20-25	M5 x 14	50	3.480	**1366254**
731 W 30 G	25-30	M5 x 14	25	4.060	**1366300**
731 W 35 G	30-35	M5 x 18	25	4.344	**1366351**

With M6 thread.

Dimensions

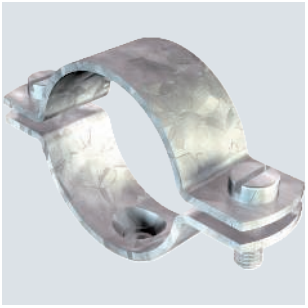


Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. t mm	Hole size mm
731 W 12 G	43	28	12	2	M6
731 W 16 G	47	32	16	2	M6
731 W 20 G	51	36	20	2	M6
731 W 25 G	58	43	25	2	M6
731 W 30 G	64	49	30	2	M6
731 W 35 G	65	50	35	2	M6

St FT

Screw-in spacer clip, heavy-duty version M6

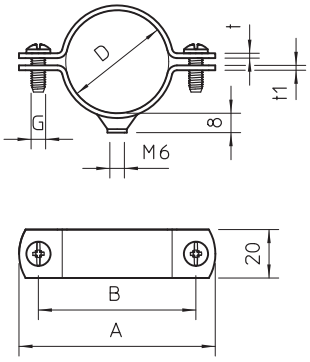
Type	Clamping range D mm	Size	For pipe Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
2900WM6 13.5 FT	12.5-13.5	1/4"	–	25	2.860	**1385003**
2900WM6 17 FT	16-17	3/8"	M16	25	4.912	**1385011**
2900WM6 21.5 FT	19-21.5	1/2"	M20	25	5.104	**1385038**
2900WM6 27 FT	24.5-27	3/4"	M25	25	5.600	**1385054**
2900WM6 33.5 FT	30.5-33.5	1"	M32	25	6.144	**1385062**
2900WM6 42.5 FT	39.5-42.5	1 1/4"	M40	25	7.644	**1385089**
2900WM6 48.5 FT	45.5-48.5	1 1/2"	M50	25	8.872	**1385119**
2900WM6 54 FT	51-54	1 3/4"	–	20	10.400	**1385127**
2900WM6 60 FT	56-60	2"	M63	15	11.720	**1385135**



Can be screwed onto M6 thread. Size 27 FT is suitable for M25. Size 42.5 FT is suitable for M40. Size 48.5 FT is suitable for M50. Size 60 FT is suitable for M63.

Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. t mm	Dim. t1 mm	Thread
2900WM6 13.5 FT	48	32	13.5	2	2	M6
2900WM6 17 FT	52	36	17	2	2	M6
2900WM6 21.5 FT	56	40	21.5	2	2	M6
2900WM6 27 FT	62	46	27	2	2	M6
2900WM6 33.5 FT	70	54	33.5	2	2	M6
2900WM6 42.5 FT	83	67	42.5	2	2	M6
2900WM6 48.5 FT	88	72	48.5	2.5	2	M6
2900WM6 54 FT	96	80	54	2.5	2.5	M6
2900WM6 60 FT	105	89	60	2.5	2.5	M6

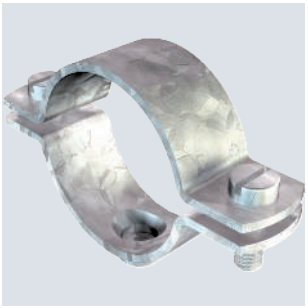
Dimensions



St FT

Screw-in spacer clip, heavy-duty version M8

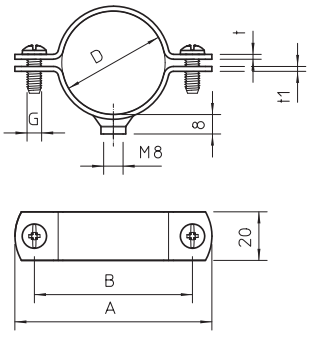
Type	Clamping range D mm	Size	For pipe Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
2900WM8 17 FT	16-17	3/8"	M16	25	5.040	**1387014**
2900WM8 21.5 FT	19-21.5	1/2"	M20	25	5.768	**1387030**
2900WM8 27 FT	24.5-27	3/4"	M25	25	6.144	**1387057**
2900WM8 33.5 FT	30.5-33.5	1"	M32	25	6.864	**1387065**
2900WM8 42.5 FT	39.5-42.5	1 1/4"	M40	25	9.000	**1387081**
2900WM8 48.5 FT	45.5-48.5	1 1/2"	M50	25	9.284	**1387111**
2900WM8 60 FT	56-60	2"	M63	15	11.346	**1387138**
2900WM8 75.5 FT	71.5-75.5	2 1/2"	M80	50	21.000	**1387154**
2900WM8 88 FT	83-88	3"	M95	50	23.800	**1387170**



Can be screwed onto M8 thread. Size 27 FT is suitable for M25. Size 42.5 FT is suitable for M40. Size 48.5 FT is suitable for M50. Size 60 FT is suitable for M63.

Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. t mm	Dim. t1 mm	Thread
2900WM8 17 FT	52	36	17	2	2.5	M8
2900WM8 21.5 FT	56	40	21.5	2	2.5	M8
2900WM8 27 FT	62	46	27	2	2.5	M8
2900WM8 33.5 FT	70	54	33.5	2	2.5	M8
2900WM8 42.5 FT	81	65	42.5	2	2.5	M8
2900WM8 48.5 FT	88	74	48.3	2	2.5	M8
2900WM8 60 FT	105	89	60	2.5	2.5	M8
2900WM8 75.5 FT	125	105	75.5	3	3	M8
2900WM8 88 FT	138	118	88	3	3	M8

Dimensions

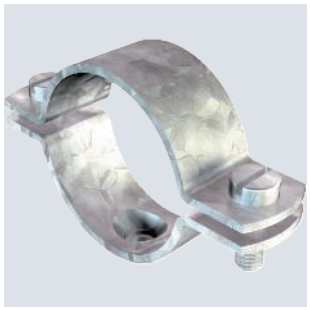


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Screw-in spacer clips

Screw-in spacer clip, heavy-duty version M10

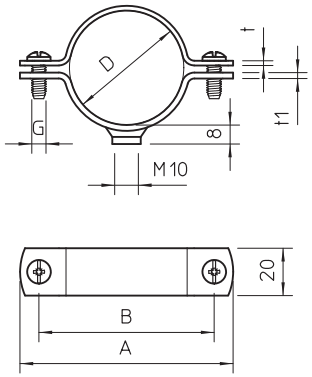
St FT



Type	Clamping range D mm	Size	For pipe Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
2900WM10 21.5 FT	19-21.5	1/2"	M20	25	5.768	**1388037**
2900WM10 27 FT	24.5-27	3/4"	M25	25	6.144	**1388053**
2900WM10 33.5 FT	30.5-33.5	1"	M32	25	6.864	**1388061**
2900WM10 48.5 FT	45.5-48.5	1 1/2"	M50	25	9.284	**1388118**
2900WM10 60 FT	56-60	2"	M63	15	11.346	**1388134**

Can be screwed onto M10 thread. Size 27 FT is suitable for M25. Size 48.5 FT is suitable for M50. Size 60 FT is suitable for M63.

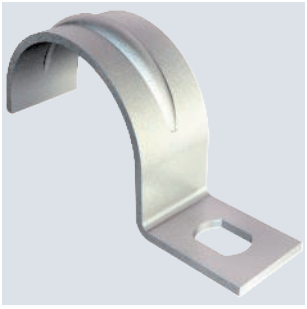
Dimensions



Type	Dim. A mm	Dim. B mm	Dim. t mm	Dim. t1 mm	Thread
2900WM10 21.5 FT	56	40	2	2.5	M10
2900WM10 27 FT	62	46	2	2.5	M10
2900WM10 33.5 FT	70	54	2	2.5	M10
2900WM10 48.5 FT	88	72	2	2.5	M10
2900WM10 60 FT	105	89	2.5	2.5	M10

St G

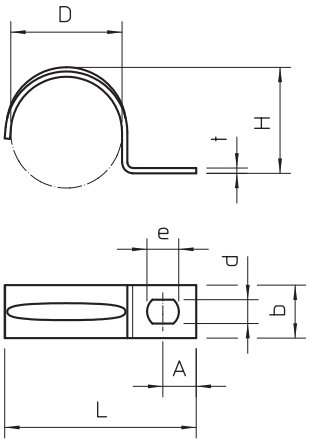
Fastening clip 604, light duty



Type	For Ø mm	Hole size mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
604 3 G	3	4,5x6	0.7		100	0.052	**1003038**
604 4 G	4	4,5x6	0.7		100	0.067	**1003046**
604 5 G	5	4,5x6	0.7		100	0.084	**1003054**
604 6 G	6	4,5x6	0.7		100	0.099	**1003062**
604 7 G	7	4,5x6	0.7		100	0.120	**1003070**
604 8 G	8	4,5x6	0.7		100	0.123	**1003089**
604 9 G	9	4,5x6	0.7		100	0.139	**1003097**
604 10 G	10	4,5x6	0.7		100	0.150	**1003100**
604 11 G	11	4,5x6	1		100	0.270	**1003119**
604 12 G	12	4,5x6	0.7		100	0.240	**1003127**
604 13 G	13	4,5x6	1		100	0.280	**1003135**
604 16 G	16	4,5x6	1		100	0.348	**1003178**
604 19 G	19	4,5x6	1		100	0.411	**1003194**
604 20 G	20	4,5x6	1		100	0.431	**1003208**
604 21 G	21	4,5x6	1		100	0.447	**1003216**
604 23 G	23	4,5x6	1		100	0.490	**1003232**
604 25 G	25	4,5x6	1		100	0.900	**1003259**
604 28 G	28	4,5x6	1		100	0.874	**1003283**
604 32 G	32	5,5x7	1.5		100	1.462	**1003321**
604 35 G	35	5,5x7	1.5		100	1.355	**1003356**
604 37 G	37	5,5x7	1.5		100	1.567	**1003372**
604 40 G	40	5,5x7	1.5		100	1.860	**1003402**
604 47 G	47	5,5x7	1.5		50	2.484	**1003461**

Single-lobe fastening clip for cables and pipes.
* Sizes 3 and 4 are not suitable for nail device
* Sizes 3 to 21 are not suitable for bolt-firing tool

Dimensions



Type	Dim. L mm	Dim. A mm	Dim. e mm	Dim. d mm	Dim. b mm	Dim. D mm	Dim. t mm	Dim. H mm
604 3 G	12	4	6	4.5	7	3	0.7	2.4
604 4 G	14	4	6	4.5	7	4	0.7	3.3
604 5 G	16.5	5	6	4.5	7	5	0.7	4.5
604 6 G	17.5	5	6	4.5	8	6	0.7	5.2
604 7 G	19.5	5	6	4.5	8	7	0.7	6.5
604 8 G	21	5.5	6	4.5	8	8	0.7	7
604 9 G	21.5	5.75	6	4.5	8	9	0.7	8
604 10 G	22	5	6	4.5	8	10	0.7	9
604 11 G	24	5.5	6	4.5	10	11	1	10
604 12 G	27	6.5	6	4.5	10	12	0.7	11
604 13 G	27	6	6	4.5	10	13	1	11.5
604 16 G	31	6.5	6	4.5	10	16	1	14.5
604 19 G	33	6.5	6	4.5	10	19	1	17
604 20 G	35	6.3	6	4.5	10	20	1	18
604 21 G	36	6.3	6	4.5	10	21	1	19
604 23 G	39	7	6	4.5	10	23	1	21.5
604 25 G	41	7	6	4.5	15	25	1	23
604 28 G	45	7	6	4.5	15	28	1	24.8
604 32 G	49	8	7	5.5	15	32	1.5	30
604 35 G	54	8.75	7	5.5	14	35	1.5	30
604 37 G	56	7.5	7	5.5	14	37	1.5	34
604 40 G	63	10.5	7	5.5	14	40	1.5	38
604 47 G	69	10	7	5.5	14	47	1.5	43.8

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Fastening clip 1015, medium-duty

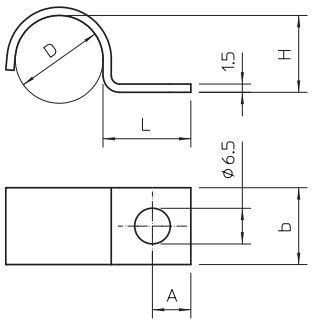
St G



Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
1015 5 G	5	6,5	1.5	100	0.325	**1009028**
1015 6 G	6	6,5	1.5	100	0.385	**1009036**
1015 7 G	7	6,5	1.5	100	0.418	**1009044**
1015 8 G	8	6,5	1.5	100	0.428	**1009052**
1015 9 G	9	6,5	1.5	100	0.468	**1009060**
1015 10 G	10	6,5	1.5	100	0.560	**1009079**
1015 11 G	11	6,5	1.5	100	0.632	**1009087**
1015 12 G	12	6,5	1.5	100	0.672	**1009109**
1015 13 G	13	6,5	1.5	100	0.683	**1009117**
1015 14 G	14	6,5	1.5	100	0.710	**1009168**
1015 15 G	15	6,5	1.5	100	0.744	**1009184**
1015 16 G	16	6,5	1.5	100	0.753	**1009192**
1015 17 G	17	6,5	1.5	100	0.764	**1009206**
1015 18 G	18	6,5	1.5	100	0.835	**1009214**

Single-lobe fastening clip for cables and pipes.

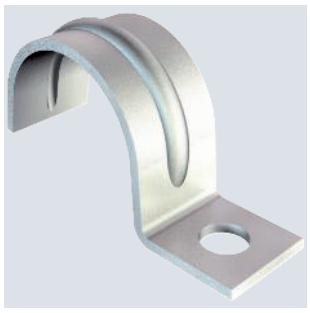
Dimensions



Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. b mm	Dim. A mm
1015 5 G	5	16	4	12	7
1015 6 G	6	16	5	12	7
1015 7 G	7	16	6	12	7
1015 8 G	8	16	7	12	7
1015 9 G	9	16	8	12	7
1015 10 G	10	16	9	12	7
1015 11 G	11	16	10	14	7
1015 12 G	12	16	11	14	7
1015 13 G	13	16	12	14	7
1015 14 G	14	16	12.5	14	7
1015 15 G	15	16	13.5	14	7
1015 16 G	16	16	14	14	7
1015 17 G	17	16	15	14	7
1015 18 G	18	16	16	14	7

Fastening clip 1015, medium-duty

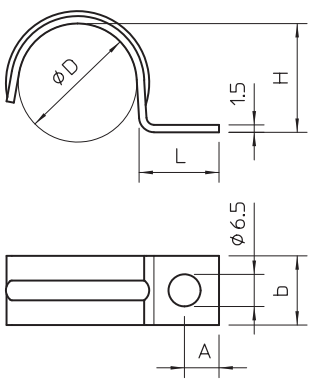
St G



Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
1015 20 G	20	6,5	1.5	100	0.921	**1009230**
1015 25 G	25	6,5	1.5	100	1.150	**1009427**
1015 28 G	28	6,5	1.5	100	1.250	**1009362**

Single-lobe fastening clip for cables and pipes.
Beading from size 20.

Dimensions



Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. b mm	Dim. A mm
1015 20 G	20	16	18	14	7
1015 25 G	25	16	22.5	14	7
1015 28 G	28	16	25	14	7

St G

Fastening clip 1015 D

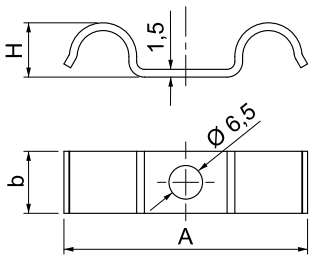


Type	For Ø mm	Hole size mm	Material thickness mm	For Ø mm		Pack Piece	Weight kg/100 pc.	Item no.
1015 D 5 G	5	6,5	1.5	5		100	0.600	**1009455**
1015 D 6 G	6	6,5	1.5	6		100	0.670	**1009457**
1015 D 7 G	7	6,5	1.5	7		100	1.070	**1009459**
1015 D 8 G	8	6,5	1.5	8		100	1.150	**1009461**
1015 D 9 G	9	6,5	1.5	9		100	1.220	**1009463**
1015 D 10 G	10	6,5	1.5	10		100	1.300	**1009465**
1015 D 12 G	12	6,5	1.5	12		100	1.700	**1009469**
1015 D 14 G	14	6,5	1.5	14		100	1.870	**1009473**
1015 D 15 G	15	6,5	1.5	15		100	1.980	**1009475**
1015 D 16 G	16	6,5	1.5	16		100	1.414	**1009477**
1015 D 18 G	18	6,5	1.5	18		100	2.250	**1009481**
1015 D 20 G	20	6,5	1.5	20		100	2.500	**1009485**
1015 D 22 G	22	6,5	1.5	22		100	2.650	**1009489**
1015 D 25 G	25	6,5	1.5	25		100	2.950	**1009493**

Fastening clip with a central fastening point for 2 cables or 2 pipes

Type	Dim. A mm	Dim. b mm	Dim. H mm
1015 D 5 G	33	12	6
1015 D 6 G	35	12	7
1015 D 7 G	41	12	8
1015 D 8 G	43	12	9
1015 D 9 G	45	12	10
1015 D 10 G	47	12	10.5
1015 D 12 G	51	14	12
1015 D 14 G	55	14	14
1015 D 15 G	58	14	15
1015 D 16 G	60	14	16
1015 D 18 G	64	14	18
1015 D 20 G	69	14	21
1015 D 22 G	72	14	22
1015 D 25 G	79	14	25

Dimensions



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Fastening clip 822, heavy-duty

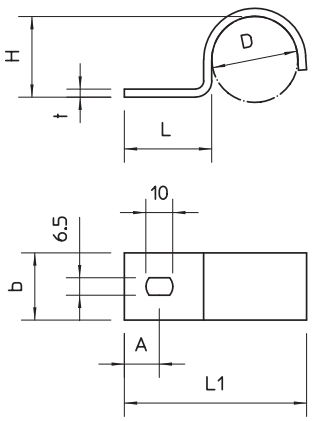
St FT



Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
822 6 FT	6	6,5 x 10	2	100	0.885	**1014005**
822 10 FT	10	6,5 x 10	2	100	1.075	**1014013**
822 12 FT	12	6,5 x 10	2	100	1.450	**1014021**
822 14 FT	14	6,5 x 10	2	100	1.600	**1014048**
822 16 FT	15,2	6,5 x 10	2	100	1.733	**1014099**
822 18 FT	18.6	6,5 x 10	2	100	1.946	**1014110**
822 20 FT	20	6,5 x 10	2	100	2.125	**1014137**
822 22.5 FT	22.5	6,5 x 10	2	50	2.338	**1014161**
822 25 FT	25	6,5 x 10	2	50	2.400	**1014501**
822 28.3 FT	28.3	6,5 x 10	2	50	4.420	**1014218**
822 32 FT	32	6,5 x 10	2	100	5.490	**1014528**
822 37 FT	37	6,5 x 10	2	100	7.100	**1014293**
822 40 FT	40	6,5 x 10	2	100	6.590	**1014536**
822 47 FT	47	6,5 x 10	3	100	8.500	**1014366**
822 50 FT	50	6,5 x 10	3	100	7.690	**1014544**
822 63 FT	63	6,5 x 10	3	100	9.260	**1014552**

Single-lobe fastening clip for cables and pipes.

Dimensions

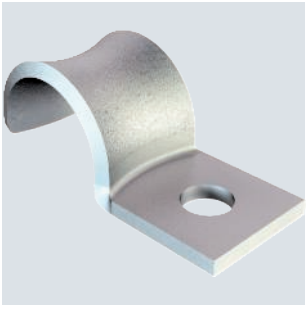


Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. L1 mm	Dim. b mm
822 6 FT	6	23.5	5	2	10	32	20
822 10 FT	10	23.5	9	2	10	36	20
822 12 FT	12	23.5	11	2	10	38.5	20
822 14 FT	14	23.5	13	2	10	40.5	20
822 16 FT	15.2	23.5	14	2	10	42	20
822 18 FT	18.6	23.5	17	2	10	45	20
822 20 FT	20	23.5	19.5	2	10	48	20
822 22.5 FT	22.5	23.5	21	2	11	49	20
822 25 FT	25	25.5	23.5	3	11	53	20
822 28.3 FT	28.3	27	26.5	3	11	60	20
822 32 FT	32	32.5	30	3	13	68	25
822 37 FT	37	30	35	3	13	70	25
822 40 FT	40	32.5	38	3	13	76	25
822 47 FT	47	30	45	3	13	81	25
822 50 FT	50	32.5	47	3	15	86	25
822 63 FT	63	33.5	60	3	15	100	25

St GTP

Fastening clip, plant standard 7855, single-lobe

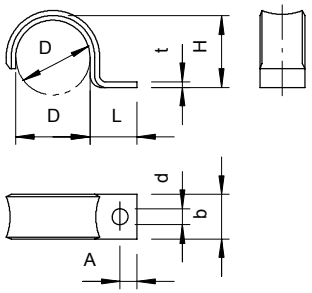
Type	For Ø mm	Hole size mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
WN 7855 A 2	2	3,2	0.8		100	0.039	**1043013**
WN 7855 A 2.5	2.5	3,2	0.8		100	0.041	**1043021**
WN 7855 A 4	4	3,2	1		100	0.062	**1043064**
WN 7855 A 4.5	4.5	3,2	1		100	0.074	**1043072**
WN 7855 A 5	5	3,2	1		100	0.090	**1043080**
WN 7855 A 6	6	3,2	1		100	0.082	**1043102**
WN 7855 A 7	7	3,2	1		100	0.120	**1043129**
WN 7855 A 8	8	3,2	1		100	0.159	**1043145**
WN 7855 A 9	9	3,2	1.5		100	0.168	**1043161**
WN 7855 A 10	10	3,2	1.5		100	0.170	**1043196**
WN 7855 A 12	12	4,3	1.5		100	0.530	**1043226**
WN 7855 A 14	14	4,3	1.5		100	0.579	**1043242**



Dimensions to Siemens standard SN 78550, shape A, with strongly rounded edges, thus particularly suitable for sensitive cables.
* Sizes 2 to 10 not suitable for bolt-firing tool and nail device.

Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. d mm	Dim. b mm
WN 7855 A 2	2	8.5	1.5	0.8	3	3.2	6
WN 7855 A 2.5	2.5	5.25	2	0.8	3	3.2	6
WN 7855 A 4	4	7.5	3.5	0.8	3	3.2	6
WN 7855 A 4.5	4.5	8.5	4	1	3	3.2	6
WN 7855 A 5	5	8	4.5	1	3	3.2	6
WN 7855 A 6	6	7.5	5.5	1	3	3.2	6
WN 7855 A 7	7	10	6	1	4	3.2	8
WN 7855 A 8	8	9.5	7	1	4	3.2	8
WN 7855 A 9	9	9	8	1	4	3.2	8
WN 7855 A 10	10	8.5	9	1	4	3.2	8
WN 7855 A 12	12	13.5	10	1.5	4.5	4.3	12
WN 7855 A 14	14	12.5	12	1.5	4.5	4.3	12

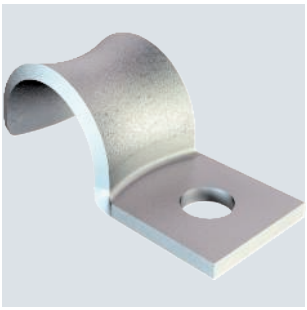
Dimensions



St GTP

Fastening clip, plant standard 7855, single-lobe

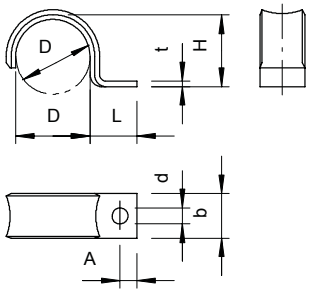
Type	For Ø mm	Hole size mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
WN 7855 A 3	3	3,2	0.8		100	0.050	**1043048**



Dimensions to Siemens standard SN 78550, shape A, with strongly rounded edges, thus particularly suitable for sensitive cables.
* Sizes 2 to 10 not suitable for bolt-firing tool and nail device.

Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. d mm	Dim. b mm
WN 7855 A 3	3	8	3.3	0.8	3	3.2	6

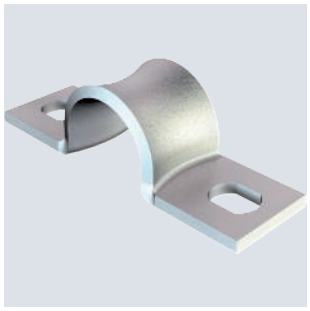
Dimensions



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Fastening clip, plant standard 7855, double-lobe

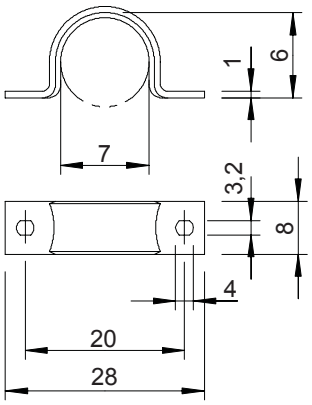
St GTP



Type	For Ø mm	Hole size mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
WN 7855 B 3	3	3,2 x 4	0.8		100	0.080	**1044044**
WN 7855 B 4	4	3,2 x 4	0.8		100	0.082	**1044060**
WN 7855 B 4.5	4.5	3,2 x 4	1		100	0.097	**1044079**
WN 7855 B 5	5	3,2 x 4	1		100	0.118	**1044087**
WN 7855 B 6	6	3,2 x 4	1		100	0.128	**1044109**
WN 7855 B 7	7	3,2 x 4	1		100	0.200	**1044125**
WN 7855 B 8	8	3,2 x 4	1		100	0.218	**1044141**
WN 7855 B 9	9	3,2 x 4	1.5		100	0.222	**1044176**
WN 7855 B 10	10	3,2 x 4	1.5		100	0.223	**1044192**
WN 7855 B 12	12	4,3 x 5	1.5		100	0.675	**1044214**
WN 7855 B 14	14	4,3 x 5	1.5		100	0.733	**1044230**
WN 7855 B 16	16	4,3 x 5	1.5		100	0.742	**1044257**

Dimensions to Siemens standard SN 78550, shape B, with strongly rounded edges, thus particularly suitable for sensitive cables.
* Sizes 3 to 10 not suitable for nail device.

Dimensions

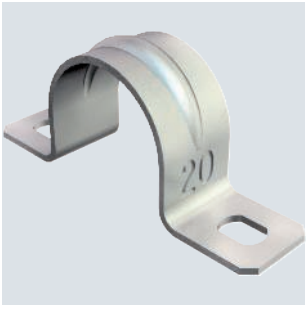


Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
WN 7855 B 3	3	2.5	0.8	21	14	6	3.2	4
WN 7855 B 4	4	3.5	1	21	14	6	3.2	4
WN 7855 B 4.5	4.5	4	1	24	16	6	3.2	4
WN 7855 B 5	5	4.5	1	24	16	6	3.2	4
WN 7855 B 6	6	5.5	1	24	16	6	3.2	4
WN 7855 B 7	7	6	1	28	20	8	3.2	4
WN 7855 B 8	8	7	1	28	20	8	3.2	4
WN 7855 B 9	9	8	1	28	20	8	3.2	4
WN 7855 B 10	10	9	1	28	20	8	3.2	4
WN 7855 B 12	12	10	1.5	39	30	12	4.3	5
WN 7855 B 14	14	12	1.5	39	30	12	4.3	5
WN 7855 B 16	16	14	1.5	39	30	12	4.3	5

St G

Fastening clip 605, medium-duty

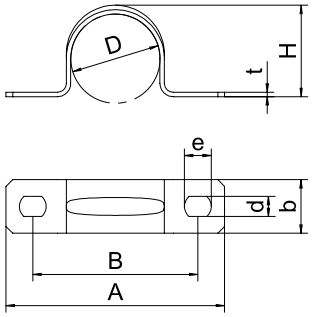
Type	For Ø mm	Hole size mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
605 7 G	7	4,5x6	1		100	0.183	**1018078**
605 8 G	8	4,5x6	1		100	0.203	**1018086**
605 9 G	9	4,5x6	1		100	0.246	**1018094**
605 10 G	10	4,5x6	1		100	0.432	**1018108**
605 11 G	11	4,5x6	1		100	0.462	**1018116**
605 12 G	12	4,5x6	1		100	0.485	**1018124**
605 13 G	13	4,5x6	1		100	0.532	**1018132**
605 14 G	14	4,5x6	1		100	0.560	**1018140**
605 15 G	15	4,5x6	1		100	0.584	**1018159**
605 16 G	16	4,5x6	1		100	0.585	**1018167**
605 17 G	17	4,5x6	1		100	0.604	**1018175**
605 18 G	18	4,5x6	1		100	0.640	**1018183**
605 19 G	19	4,5x6	1		100	0.671	**1018191**
605 20 G	20	4,5x6	1		100	0.664	**1018205**
605 21 G	21	4,5x6	1		100	0.678	**1018213**
605 23 G	23	4,5x6	1		100	0.826	**1018221**
605 25 G	25	4,5x6	1		100	0.960	**1018256**
605 26 G	26	4,5x6	1		100	0.975	**1018264**
605 28 G	28	4,5x6	1		100	1.067	**1018280**
605 30 G	30	4,5x6	1		100	1.150	**1018302**
605 32 G	32	4,5x6	1		100	1.260	**1018337**
605 35 G	35	5,5x7	1.5		100	1.921	**1018353**
605 37 G	37	5,5x7	1.5		100	2.007	**1018361**



Two lobe fastening clips for cables and pipes.
* Sizes 7 to 12 not suitable for bolt-firing tool.

Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 7 G	7	6	1	32	21	10	4.5	6
605 8 G	8	7	1	33	22	10	4.5	6
605 9 G	9	8	1	34	23	10	4.5	6
605 10 G	10	9	1	37	25	12	4.5	6
605 11 G	11	10	1	38	26	12	4.5	6
605 12 G	12	11	1	39	27	12	4.5	6
605 13 G	13	12	1	41	29	12	4.5	6
605 14 G	14	13	1	42	30	12	4.5	6
605 15 G	15	13.5	1	43	31	12	4.5	6
605 16 G	16	14.5	1	44	32	12	4.5	6
605 17 G	17	15.5	1	45	33	12	4.5	6
605 18 G	18	16.5	1	46	34	12	4.5	6
605 19 G	19	17.5	1	47	35	12	4.5	6
605 20 G	20	18.5	1	49	37	12	4.5	6
605 21 G	21	19.5	1	50	38	12	4.5	6
605 23 G	23	21	1	52	40	12	4.5	6
605 25 G	25	23	1	58	44	14	4.5	6
605 26 G	26	24	1	59	45	14	4.5	6
605 28 G	28	26	1	61	47	14	4.5	6
605 30 G	30	28	1	63	49	14	4.5	6
605 32 G	32	30	1	66	52	14	5.5	6
605 35 G	35	32	1.5	70	56	14	5.5	7
605 37 G	37	34	1.5	72	58	14	5.5	7

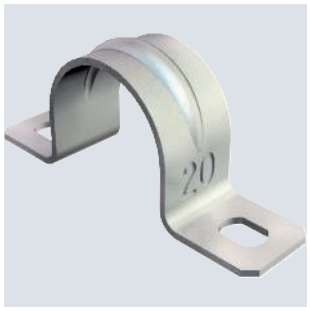
Dimensions



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Fastening clip 605, medium duty

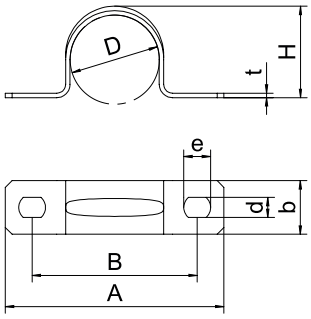
St G



Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 40 G	40	5,5x7	1.5	50	1.900	**1018396**
605 43 G	43	5,5x7	1.5	50	2.324	**1018434**
605 47 G	47	5,5x7	1.5	50	2.366	**1018477**
605 50 G	50	5,5x7	1.5	25	2.770	**1018507**
605 55 G	55	5,5x7	1.5	25	3.840	**1018558**
605 60 G	60	5,5x7	1.5	25	3.800	**1018604**
605 63 G	63	5,5x7	1.5	25	3.670	**1018639**

Two lobe fastening clips for cables and pipes.
* Sizes 7 to 12 not suitable for bolt-firing tool.

Dimensions



Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 40 G	40	37	1.5	75	61	14	5.5	7
605 43 G	43	40	1.5	78	64	14	5.5	7
605 47 G	47	44	1.5	82	68	14	5.5	7
605 50 G	50	46	1.5	88	74	16	5.5	7
605 55 G	55	51	1.5	94	78	16	5.5	7
605 60 G	60	56	1.5	99	83	16	5.5	7
605 63 G	63	59	1.5	112	98	16	5.5	7

Fastening clip 605, medium duty

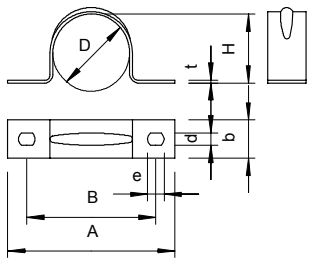
Alu



Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 16 ALU	16	4,5x6	1	100	0.218	**1017799**
605 32 ALU	32	4,5x6	1	100	0.433	**1017926**
605 50 ALU	50	5,5x7	1.5	25	0.952	**1017980**

Two lobe fastening clips for cables and pipes.

Dimensions

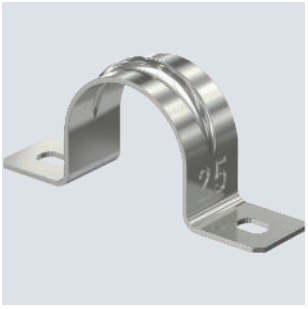


Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 16 ALU	16	14.5	1	44	32	12	4.5	6
605 32 ALU	32	29	1	95	71	25	4.5	6
605 50 ALU	50	46	1.5	110	86	25	5.5	7

A4 2B

Fastening clip 605, medium-duty

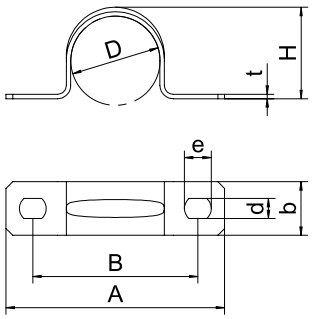
Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 12 A4	12	4,5 x 6	1	100	0.485	**1018653**
605 16 A4	16	4,5 x 6	1	100	0.585	**1018661**
605 20 A4	20	4,5 x 6	1	100	0.664	**1018669**
605 25 A4	25	4,5 x 6	1	100	0.992	**1018679**
605 32 A4	32	4,5 x 6	1	100	1.260	**1018693**
605 40 A4	40	5,5 x 7	1.5	50	1.900	**1018705**
605 50 A4	50	5,5 x 7	1.5	25	2.770	**1018717**
605 63 A4	63	5,5 x 7	1.5	25	3.670	**1018729**



Two lobe fastening clips for cables and pipes.

Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 12 A4	12	11	1	39	27	12	4.5	6
605 16 A4	16	14.5	1	44	32	12	4.5	6
605 20 A4	20	18.5	1	49	37	12	4.5	6
605 25 A4	25	23	1	58	44	14	4.5	6
605 32 A4	32	30	1	66	52	14	4.5	6
605 40 A4	40	37	1.5	75	61	14	5.5	7
605 50 A4	50	46	1.5	88	74	16	5.5	7
605 63 A4	63	59	1.5	112	98	16	5.5	7

Dimensions



St FT

Fastening clip 823, heavy duty

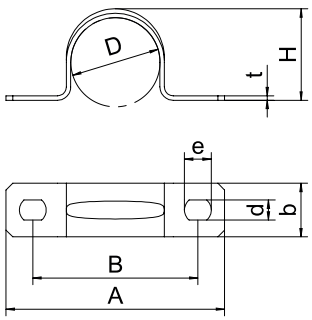
Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
823 16 FT	16	6,5 x 10	2	50	2.260	**1015095**
823 18.3 FT	18.6	6,5 x 10	2	50	2.446	**1015117**
823 20 FT	20	6,5 x 10	2	50	2.662	**1015133**
823 22.5 FT	22.5	6,5 x 10	2	50	2.988	**1015168**
823 25 FT	25	6,5 x 10	3	25	6.770	**1015494**
823 28.3 FT	28.3	6,5 x 10	3	25	5.208	**1015214**
823 32 FT	32	6,5 x 10	3	100	7.469	**1015496**
823 37 FT	37	6,5 x 10	3	100	8.700	**1015303**
823 40 FT	40	6,5 x 10	3	100	8.460	**1015498**
823 47 FT	47	6,5 x 10	3	100	10.120	**1015362**
823 54 FT	54	6,5 x 10	3	100	10.760	**1015427**
823 59.3 FT	59.3	6,5 x 10	3	100	11.800	**1015486**
823 50 FT	50	6,5 x 10	3	100	9.050	**1015500**
823 63 FT	63	6,5 x 10	3	100	10.700	**1015508**



Two lobe fastening clips for cables and pipes.

Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
823 16 FT	15.2	13	2	59	40	20	6.5	10
823 18.3 FT	18.6	16	2	62	43	20	6.5	10
823 20 FT	20.4	18	2	64	45	20	6.5	10
823 22.5 FT	22.5	20	2	67	48	20	6.5	10
823 25 FT	25	23.5	3	79	60	25	6.5	10
823 28.3 FT	28.3	25.5	3	75	56	20	6.5	10
823 32 FT	32	29	3	95	71	25	6.5	10
823 37 FT	37	34	3	93	69	25	6.5	10
823 40 FT	40	36	3	100	76	25	6.5	10
823 47 FT	47	43	3	103	79	25	6.5	10
823 54 FT	54	50	3	110	86	25	6.5	10
823 59.3 FT	59.3	55	3	116	92	25	6.5	10
823 50 FT	50	46	3	110	86	25	6.5	10
823 63 FT	63	59	3	120	96	25	6.5	10

Dimensions



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Strain relief clip 7901

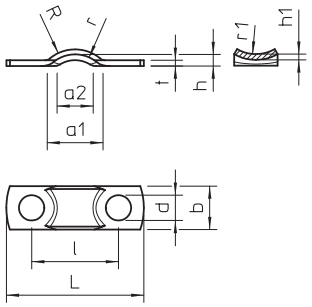
St G



Type	For cable Ø mm	Hole size mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
7901 5 G	5	3,5	0.8		100	0.063	**1435019**

Fastening clip for strain relief of cables.

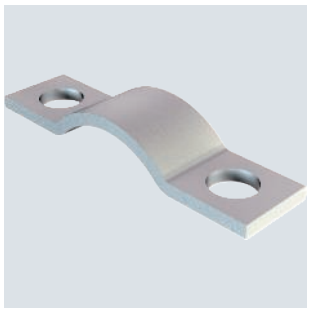
Dimensions



Type	Dim. L mm	Dim. l mm	Dim. d mm	Dim. b mm	Dim. R mm	Dim. r mm	Dim. a1 mm	Dim. a2 mm	Dim. t mm	Dim. h mm	Dim. r1 mm	Dim. h1 mm
7901 5 G	19	12	3.5	6	5	4	6.5	4	0.8	1.6	5	0.8

Strain relief clip 7902

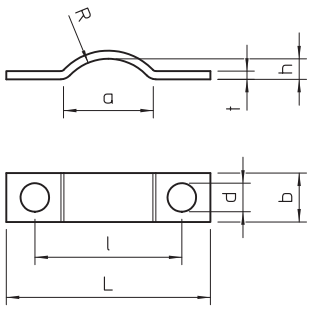
St G



Type	For cable Ø mm	Hole size mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
7902 8 G	8	4	1		100	0.159	**1436023**

Fastening clip for strain relief of cables.

Dimensions



Type	Dim. L mm	Dim. l mm	Dim. d mm	Dim. b mm	Dim. R mm	Dim. a mm	Dim. t mm	Dim. h mm
7902 8 G	30	23	4	8	8	12	1	4.5

St G

Strain relief clip 7903

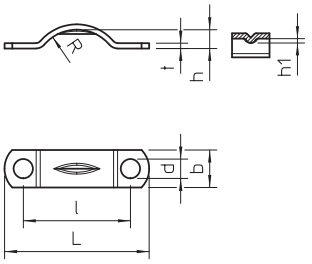
Type	For cable Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
7903 8 G	8	3,6	0.8	100	0.130	**1437011**
7903 9 G	9	4,5	1	100	0.244	**1437038**

Fastening clip for strain relief of cables.



Type	Dim. L mm	Dim. l mm	Dim. d mm	Dim. b mm	Dim. R mm	Dim. t mm	Dim. h mm	Dim. h1 mm
7903 8 G	27	20	3.6	7	8	1	3.5	0.8
7903 9 G	31	23	4.5	8	9	1.5	4	1

Dimensions

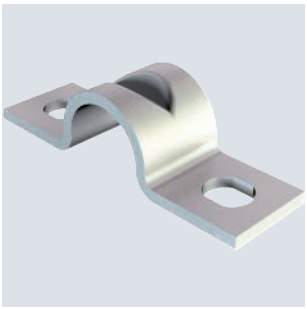


St G

Strain relief clip 7904

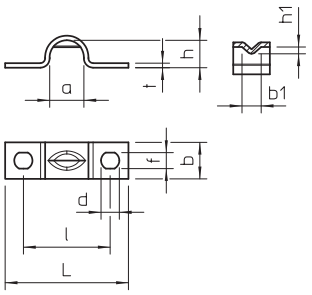
Type	For cable Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
7904 6 G	6	3,5x4	1	100	0.185	**1438018**

Fastening clip for strain relief of cables.



Type	Dim. L mm	Dim. l mm	Dim. d mm	Dim. f mm	Dim. b mm	Dim. a mm	Dim. t mm	Dim. h mm	Dim. b1 mm	Dim. h1 mm
7904 6 G	27.5	19	4	3.5	8	7.5	1	6	4.5	1.5

Dimensions



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Strain relief clip 7908

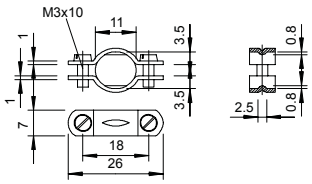
St G



Type	For cable Ø mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
7908 11 G	11	1		100	0.433	**1442015**

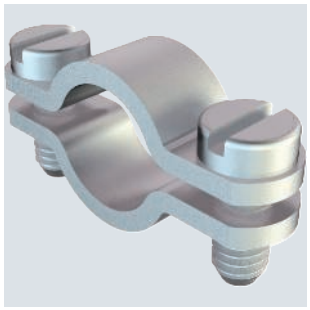
Fastening clip for strain relief of cables.

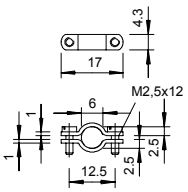
Dimensions



Strain relief clip 7909

St G





Type	For cable Ø mm	Material thickness mm		Pack Piece	Weight kg/100 pc.	Item no.
7909 6 G	6	1		100	0.198	**1443011**

Fastening clip for strain relief of cables.

St FT

11-12 N

Clamp clip 2056 N-foot, 1-fold, metal pressure sleeve

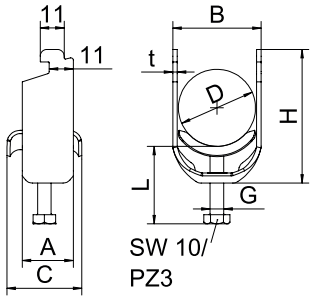
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-N1-M-12 FT	8-12	100	2.450	**1187002**
BS-N1-M-16 FT	12-16	100	2.800	**1187008**
BS-N1-M-22 FT	16-22	100	3.150	**1187014**
BS-N1-M-28 FT	22-28	100	4.900	**1187020**
BS-N1-M-34 FT	28-34	100	6.400	**1187026**
BS-N1-M-40 FT	34-40	100	7.000	**1187032**
BS-N1-M-46 FT	40-46	100	8.500	**1187038**
BS-N1-M-52 FT	46-52	100	9.150	**1187044**
BS-N1-M-58 FT	52-58	100	12.100	**1187050**



Clamp clip with N-foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For slot width 11–12 mm With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-N1-M-12 FT	8-12	22	17	28	M6	1.5	35	34	3
BS-N1-M-16 FT	12-16	22.5	20	28	M6	1.5	39	34	3
BS-N1-M-22 FT	16-22	22.5	27	28	M6	1.5	46	34	3
BS-N1-M-28 FT	22-28	22.5	33	28	M6	2	52	34	3
BS-N1-M-34 FT	28-34	22.5	39	34	M6	2	59	34	3
BS-N1-M-40 FT	34-40	22.5	45	33	M6	2	66	34	3
BS-N1-M-46 FT	40-46	25	51	33	M8	2	73	43	5
BS-N1-M-52 FT	46-52	25	57	33	M8	2	80	43	5
BS-N1-M-58 FT	52-58	25	64	33	M8	2.5	86	43	5

Dimensions



St FT

11-12 N

Clamp clip 2056 N-foot, 1-fold, plastic pressure sleeve

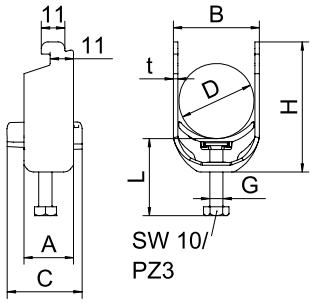
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-N1-K-12 FT	8-12	100	2.500	**1187202**
BS-N1-K-16 FT	12-16	100	2.919	**1187208**
BS-N1-K-22 FT	16-22	100	3.100	**1187214**
BS-N1-K-28 FT	22-28	100	4.600	**1187220**
BS-N1-K-34 FT	28-34	100	5.900	**1187226**
BS-N1-K-40 FT	34-40	100	5.970	**1187232**
BS-N1-K-46 FT	40-46	100	6.640	**1187238**
BS-N1-K-52 FT	46-52	100	7.270	**1187244**
BS-N1-K-58 FT	52-58	50	10.560	**1187250**
BS-N1-K-64 FT	58-64	50	11.200	**1187256**
BS-N1-K-70 FT	64-70	50	12.330	**1187262**



Clamp clip with N-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For slot width 11–12 mm With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-N1-K-12 FT	8-12	22.5	17	34	M6	1.5	35	35	3
BS-N1-K-16 FT	12-16	22.5	20	34	M6	1.5	39	35	3
BS-N1-K-22 FT	16-22	22.5	27	34	M6	1.5	46	35	3
BS-N1-K-28 FT	22-28	22.5	33	34	M6	2	52	35	3
BS-N1-K-34 FT	28-34	22.5	39	34	M6	2	59	35	3
BS-N1-K-40 FT	34-40	22.5	45	34	M6	2	66	35	3
BS-N1-K-46 FT	40-46	25	51	40	M8	2	73	45	5
BS-N1-K-52 FT	46-52	25	57	40	M8	2	80	45	5
BS-N1-K-58 FT	52-58	25	64	40	M8	2.5	86	45	5
BS-N1-K-64 FT	58-64	25	70	40	M8	2.5	93	45	5
BS-N1-K-70 FT	64-70	25	76	40	M8	2.5	99	45	5

Dimensions



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Clamp clips, N base

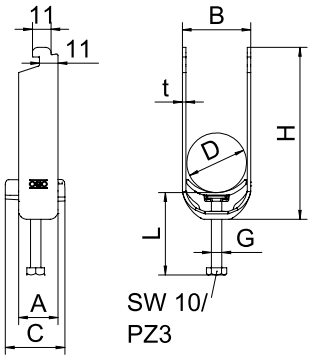
Clamp clip 2056 N-foot, 2-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-N2-K-12 FT	8-12	50	3.500	**1187203**

Clamp clip with N-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 2 single cables on a C-profile rail. For slot width 11–12 mm With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-N2-K-12 FT	8-12	22.5	17	34	M6	1.5	52	47	3

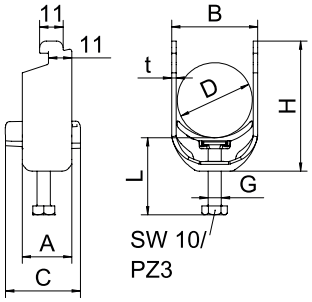
Clamp clip 2056 N-foot, 1-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-N1-K-12 ALU	8-12	50	0.900	**1187302**
BS-N1-K-16 ALU	12-16	50	1.090	**1187308**
BS-N1-K-22 ALU	16-22	50	1.200	**1187314**
BS-N1-K-28 ALU	22-28	50	1.700	**1187320**
BS-N1-K-34 ALU	28-34	50	2.200	**1187326**
BS-N1-K-40 ALU	34-40	50	2.350	**1187332**
BS-N1-K-46 ALU	40-46	50	2.550	**1187338**
BS-N1-K-52 ALU	46-52	50	2.880	**1187344**
BS-N1-K-58 ALU	52-58	50	4.100	**1187350**

Clamp clip with N-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For slot width 11–12 mm With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-N1-K-12 ALU	8-12	22.5	17	34	M6	1.5	35	35	2
BS-N1-K-16 ALU	12-16	22.5	20	34	M6	1.5	39	35	2
BS-N1-K-22 ALU	16-22	22.5	27	34	M6	1.5	46	35	2
BS-N1-K-28 ALU	22-28	22.5	33	34	M6	2	52	35	2
BS-N1-K-34 ALU	28-34	22.5	39	34	M6	2	59	35	2
BS-N1-K-40 ALU	34-40	22.5	45	34	M6	2	66	35	2
BS-N1-K-46 ALU	40-46	25	51	40	M8	2	73	45	2
BS-N1-K-52 ALU	46-52	25	57	40	M8	2	80	45	2
BS-N1-K-58 ALU	52-58	25	64	40	M8	2.5	86	45	2

A2 2B

11-12 N

Clamp clip 2056 N-foot, 1-fold, plastic pressure sleeve

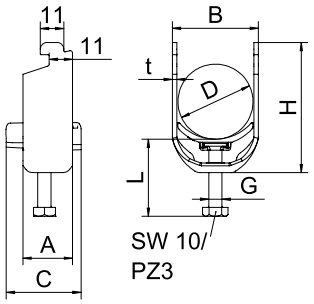
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-N1-K-12 A2	8-12	50	2.500	**1188102**
BS-N1-K-16 A2	12-16	50	2.919	**1188108**
BS-N1-K-22 A2	16-22	50	4.400	**1188114**
BS-N1-K-28 A2	22-28	50	6.500	**1188120**
BS-N1-K-34 A2	28-34	50	8.000	**1188126**
BS-N1-K-40 A2	34-40	25	6.155	**1188132**
BS-N1-K-46 A2	40-46	25	6.770	**1188138**



Clamp clip with N-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For slot width 11–12 mm With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-N1-K-12 A2	8-12	22.5	17	34	M6	1.5	35	35	3
BS-N1-K-16 A2	12-16	22.5	20	34	M6	1.5	39	35	3
BS-N1-K-22 A2	16-22	22.5	27	34	M6	1.5	46	35	3
BS-N1-K-28 A2	22-28	22.5	33	34	M6	2	52	35	3
BS-N1-K-34 A2	28-34	22.5	39	34	M6	2	59	35	3
BS-N1-K-40 A2	34-40	22.5	45	34	M6	2	66	35	3
BS-N1-K-46 A2	40-46	25	51	40	M8	2	73	45	5

Dimensions



St FT

18 22 U E30 E90

Clamp clip 2056 U-foot, 1-fold, metal pressure sleeve

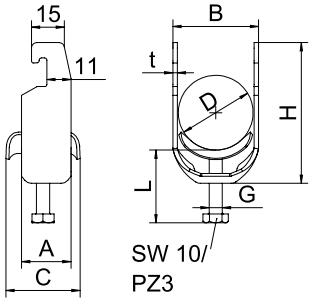
Type	Clamping range D mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
BS-U1-M-12 FT	8-12		100	3.300	**1186502**
BS-U1-M-16 FT	12-16		100	3.520	**1186509**
BS-U1-M-22 FT	16-22		100	3.960	**1186516**
BS-U1-M-28 FT	22-28		100	5.890	**1186522**
BS-U1-M-34 FT	28-34		100	7.650	**1186529**
BS-U1-M-40 FT	34-40		100	8.360	**1186536**
BS-U1-M-46 FT	40-46		100	10.890	**1186542**
BS-U1-M-52 FT	46-52		100	11.660	**1186549**
BS-U1-M-58 FT	52-58		100	14.740	**1186556**
BS-U1-M-64 FT	58-64		100	15.730	**1186562**
BS-U1-M-70 FT	64-70		50	18.200	**1186569**
BS-U1-M-76 FT	70-76		25	20.600	**1186576**



Clamp clip with U-foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For slot width 18–22 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-U1-M-12 FT	8-12	22.5	17	28	M6	1.5	40	34	3
BS-U1-M-16 FT	12-16	22.5	20	28	M6	1.5	44	34	3
BS-U1-M-22 FT	16-22	22.5	27	18	M6	1.5	51	34	3
BS-U1-M-28 FT	22-28	22.5	33	28	M6	2	57	34	3
BS-U1-M-34 FT	28-34	22.5	39	34	M6	2	64	34	3
BS-U1-M-40 FT	34-40	22.5	45	33	M6	2	70	34	3
BS-U1-M-46 FT	40-46	25	51	33	M8	2	76	43	5
BS-U1-M-52 FT	46-52	25	57	33	M8	2	83	43	5
BS-U1-M-58 FT	52-58	25	64	33	M8	2.5	89	43	5
BS-U1-M-64 FT	58-64	25	70	33	M8	2.5	95	43	5
BS-U1-M-70 FT	64-70	25	76	33	M8	2.5	101	43	5
BS-U1-M-76 FT	70-76	25	82	37	M8	2.5	108	43	5

Dimensions



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Clamp clip 2056 U-foot, 1-fold, metal pressure sleeve

A4 2B

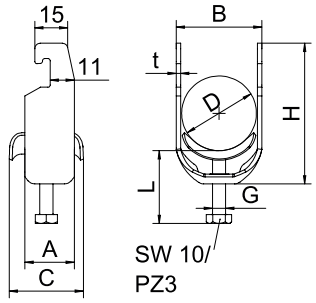
18 22 U



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-U1-M-12 A4	8-12	100	3.300	**1186602**
BS-U1-M-16 A4	12-16	100	3.520	**1186609**
BS-U1-M-22 A4	16-22	100	3.590	**1186616**
BS-U1-M-28 A4	22-28	100	4.930	**1186622**
BS-U1-M-34 A4	28-34	100	6.656	**1186629**
BS-U1-M-40 A4	34-40	100	8.360	**1186636**
BS-U1-M-46 A4	40-46	100	10.890	**1186642**
BS-U1-M-52 A4	46-52	100	11.660	**1186649**
BS-U1-M-58 A4	52-58	100	14.740	**1186656**
BS-U1-M-64 A4	58-64	100	15.730	**1186662**
BS-U1-M-70 A4	64-70	50	18.200	**1186669**
BS-U1-M-76 A4	70-76	25	20.600	**1186676**

Clamp clip with U-foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For slot width 18–22 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-U1-M-12 A4	8-12	22.5	17	28	M6	1.5	40	34	3
BS-U1-M-16 A4	12-16	22.5	20	28	M6	1.5	44	34	3
BS-U1-M-22 A4	16-22	22.5	27	28	M6	1.5	51	34	3
BS-U1-M-28 A4	22-28	22.5	33	28	M6	2	57	34	3
BS-U1-M-34 A4	28-34	22.5	39	34	M6	2	64	34	3
BS-U1-M-40 A4	34-40	22.5	45	33	M6	2	70	34	3
BS-U1-M-46 A4	40-46	25	51	33	M8	2	76	43	5
BS-U1-M-52 A4	46-52	25	57	33	M8	2	83	43	5
BS-U1-M-58 A4	52-58	25	64	33	M8	2.5	89	43	5
BS-U1-M-64 A4	58-64	25	70	33	M8	2.5	95	43	5
BS-U1-M-70 A4	64-70	25	76	33	M8	2.5	101	43	5
BS-U1-M-76 A4	70-76	25	82	37	M8	2.5	108	43	5

St FT

18 22 U

Clamp clip 2056 U-foot, 1-fold, plastic pressure sleeve

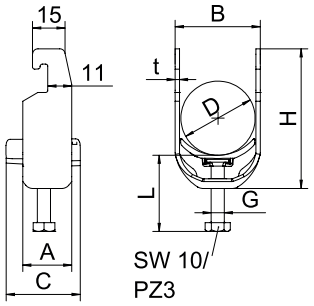
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-U1-K-12 FT	8-12	100	2.850	**1186702**
BS-U1-K-16 FT	12-16	100	3.050	**1186709**
BS-U1-K-22 FT	16-22	100	3.223	**1186716**
BS-U1-K-28 FT	22-28	100	4.344	**1186722**
BS-U1-K-34 FT	28-34	100	7.500	**1186729**
BS-U1-K-40 FT	34-40	100	8.100	**1186736**
BS-U1-K-46 FT	40-46	100	10.000	**1186742**
BS-U1-K-52 FT	46-52	100	11.200	**1186749**
BS-U1-K-58 FT	52-58	100	13.400	**1186756**
BS-U1-K-64 FT	58-64	100	14.300	**1186762**
BS-U1-K-70 FT	64-70	50	15.250	**1186769**
BS-U1-K-76 FT	70-76	25	20.600	**1186776**
BS-U1-K-82 FT	76-82	25	22.000	**1186782**
BS-U1-K-90 FT	82-90	25	26.200	**1186789**
BS-U1-K-100 FT	90-100	25	30.000	**1186797**



Clamp clip with U-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For slot width 18–22 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-U1-K-12 FT	8-12	22.5	17	34	M6	1.5	40	35	3
BS-U1-K-16 FT	12-16	22.5	20	34	M6	1.5	44	35	3
BS-U1-K-22 FT	16-22	22.5	27	34	M6	1.5	51	35	3
BS-U1-K-28 FT	22-28	22.5	33	34	M6	2	57	35	3
BS-U1-K-34 FT	28-34	22.5	39	34	M6	2	64	35	3
BS-U1-K-40 FT	34-40	22.5	45	34	M6	2	70	35	3
BS-U1-K-46 FT	40-46	25	51	40	M8	2	76	45	5
BS-U1-K-52 FT	46-52	25	57	40	M6	2	83	45	5
BS-U1-K-58 FT	52-58	25	64	40	M8	2.5	89	45	5
BS-U1-K-64 FT	58-64	25	70	40	M8	2.5	95	45	5
BS-U1-K-70 FT	64-70	25	79	40	M8	2.5	101	45	5
BS-U1-K-76 FT	70-76	25	82	40	M8	2.5	108	45	5
BS-U1-K-82 FT	76-82	25	88	40	M8	2.5	114	45	5
BS-U1-K-90 FT	82-90	27	97	40	M8	3	124	45	5
BS-U1-K-100 FT	90-100	27	107	40	M8	3	134	45	5

Dimensions



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Clamp clips, U base

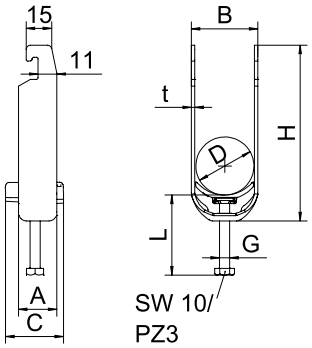
Clamp clip 2056 U-foot, 2-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-U2-K-12 FT	8-12	50	3.150	**1186703**
BS-U2-K-16 FT	12-16	50	3.600	**1186710**
BS-U2-K-22 FT	16-22	50	4.950	**1186717**
BS-U2-K-28 FT	22-28	50	6.940	**1186723**
BS-U2-K-34 FT	28-34	50	9.500	**1186730**
BS-U2-K-40 FT	34-40	50	11.350	**1186737**
BS-U2-K-46 FT	40-46	50	11.350	**1186743**
BS-U2-K-52 FT	46-52	50	15.050	**1186750**
BS-U2-K-58 FT	52-58	50	19.800	**1186757**

Clamp clip with U-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 2 single cables on a C-profile rail. For slot width 18–22 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-U2-K-12 FT	8-12	22.5	17	34	M6	1.5	57	47	3
BS-U2-K-16 FT	12-16	22.5	20	34	M6	1.5	65	47	3
BS-U2-K-22 FT	16-22	22.5	27	34	M6	1.5	78	47	3
BS-U2-K-28 FT	22-28	22.5	33	34	M6	2	90	47	3
BS-U2-K-34 FT	28-34	22.5	39	34	M6	2	103	47	3
BS-U2-K-40 FT	34-40	22.5	45	34	M6	2	116	47	3
BS-U2-K-46 FT	40-46	25	51	40	M8	2	128	45	5
BS-U2-K-52 FT	46-52	25	57	40	M8	2	141	45	5
BS-U2-K-58 FT	52-58	25	64	40	M8	2.5	153	45	5

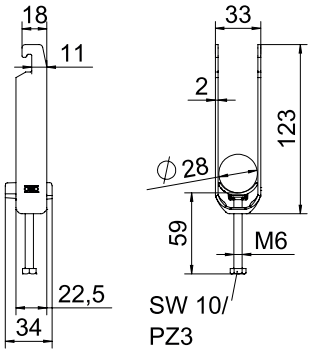
Clamp clip 2056 U-foot, 3-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-U3-K-12 FT	8-12	50	4.750	**1186704**
BS-U3-K-16 FT	12-16	50	4.850	**1186711**
BS-U3-K-22 FT	16-22	50	6.600	**1186718**
BS-U3-K-28 FT	22-28	50	10.500	**1186724**
BS-U3-K-34 FT	28-34	50	13.250	**1186731**
BS-U3-K-40 FT	34-40	50	14.400	**1186738**
BS-U3-K-46 FT	40-46	50	18.950	**1186744**

Clamp clip with U-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 3 single cables on a C-profile rail. For slot width 18–22 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-U3-K-12 FT	8-12	22.5	17	34	M6	1.5	74	47	3
BS-U3-K-16 FT	12-16	22.5	20	34	M6	1.5	84	47	3
BS-U3-K-22 FT	16-22	22.5	27	34	M6	1.5	105	59	3
BS-U3-K-28 FT	22-28	22.5	33	34	M6	2	123	59	3
BS-U3-K-34 FT	28-34	22.5	39	34	M6	2	142	59	3
BS-U3-K-40 FT	34-40	22.5	45	34	M6	2	161	59	3
BS-U3-K-46 FT	40-46	25	51	40	M8	2	179	72	5

A2 2B

18 22 U

Clamp clip 2056 U-foot, 1-fold, plastic pressure sleeve

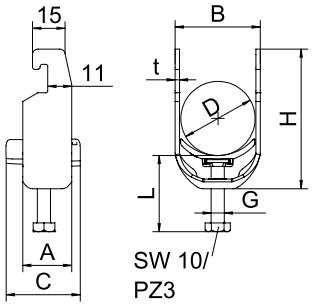
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-U1-K-12 A2	8-12	50	3.000	**1186802**
BS-U1-K-16 A2	12-16	50	3.200	**1186809**
BS-U1-K-22 A2	16-22	50	3.800	**1186816**
BS-U1-K-28 A2	22-28	50	5.350	**1186822**
BS-U1-K-34 A2	28-34	50	7.200	**1186829**
BS-U1-K-40 A2	34-40	25	8.100	**1186836**
BS-U1-K-46 A2	40-46	25	9.900	**1186842**
BS-U1-K-52 A2	46-52	25	11.200	**1186849**
BS-U1-K-58 A2	52-58	25	13.400	**1186856**
BS-U1-K-64 A2	58-64	15	14.300	**1186862**
BS-U1-K-70 A2	64-70	15	20.500	**1186869**
BS-U1-K-76 A2	70-76	10	19.100	**1186876**



Clamp clip with U-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For slot width 18–22 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-U1-K-12 A2	8-12	22.5	17	34	M6	1.5	40	35	3
BS-U1-K-16 A2	12-16	22.5	20	34	M6	1.5	44	35	3
BS-U1-K-22 A2	16-22	22.5	27	34	M6	1.5	51	35	3
BS-U1-K-28 A2	22-28	22.5	33	34	M6	2	57	35	3
BS-U1-K-34 A2	28-34	22.5	39	34	M6	2	64	35	3
BS-U1-K-40 A2	34-40	22.5	45	34	M6	2	70	35	3
BS-U1-K-46 A2	40-46	25	51	40	M8	2	76	45	5
BS-U1-K-52 A2	46-52	25	57	40	M8	2	83	32	5
BS-U1-K-58 A2	52-58	25	64	40	M8	2.5	89	45	5
BS-U1-K-64 A2	58-64	25	70	40	M8	2.5	95	45	5
BS-U1-K-70 A2	64-70	25	76	40	M8	2.5	101	45	5
BS-U1-K-76 A2	70-76	25	82	40	M8	2.5	108	45	5

Dimensions



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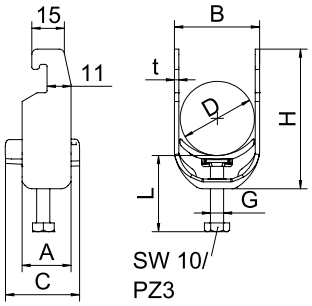
Clamp clip 2056 U-foot, 1-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-U1-K-12 ALU	8-12	50	1.100	**1186902**
BS-U1-K-16 ALU	12-16	50	1.200	**1186909**
BS-U1-K-22 ALU	16-22	50	1.350	**1186916**
BS-U1-K-28 ALU	22-28	50	1.950	**1186922**
BS-U1-K-34 ALU	28-34	50	2.550	**1186929**
BS-U1-K-40 ALU	34-40	50	2.800	**1186936**
BS-U1-K-46 ALU	40-46	50	3.600	**1186942**
BS-U1-K-52 ALU	46-52	50	3.950	**1186949**
BS-U1-K-58 ALU	52-58	50	4.900	**1186956**
BS-U1-K-64 ALU	58-64	50	5.250	**1186962**
BS-U1-K-70 ALU	64-70	50	5.600	**1186969**
BS-U1-K-76 ALU	70-76	50	7.050	**1186976**

Clamp clip with U-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For slot width 18–22 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-U1-K-12 ALU	8-12	22.5	17	34	M6	1.5	40	35	2
BS-U1-K-16 ALU	12-16	22.5	20	34	M6	1.5	44	35	2
BS-U1-K-22 ALU	16-22	22.5	27	34	M6	1.5	51	35	2
BS-U1-K-28 ALU	22-28	22.5	33	34	M6	2	57	35	2
BS-U1-K-34 ALU	28-34	22.5	39	34	M6	2	64	35	2
BS-U1-K-40 ALU	34-40	22.5	45	34	M6	2	70	35	2
BS-U1-K-46 ALU	40-46	25	51	40	M8	2	76	45	2
BS-U1-K-52 ALU	46-52	25	57	40	M8	2	83	45	2
BS-U1-K-58 ALU	52-58	25	64	89	M8	2.5	89	45	2
BS-U1-K-64 ALU	58-64	25	70	40	M8	2.5	95	45	2
BS-U1-K-70 ALU	64-70	25	76	101	M8	2.5	101	45	2
BS-U1-K-76 ALU	70-76	25	82	40	M8	2.5	108	45	2

St FT

16-17 H E30 E90

Clamp clip 2056 H-foot, 1-fold, metal pressure sleeve

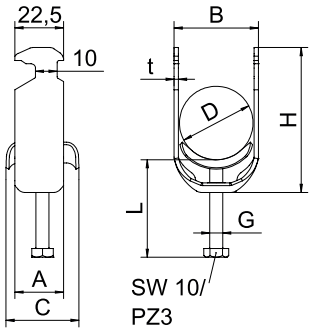
Type	Clamping range D mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
BS-H1-M-12 FT	8-12		100	3.200	**1186002**
BS-H1-M-16 FT	12-16		100	3.500	**1186009**
BS-H1-M-22 FT	16-22		100	4.400	**1186016**
BS-H1-M-28 FT	22-28		100	6.100	**1186022**
BS-H1-M-34 FT	28-34		100	7.700	**1186029**
BS-H1-M-40 FT	34-40		100	8.600	**1186036**
BS-H1-M-46 FT	40-46		100	9.600	**1186042**
BS-H1-M-52 FT	46-52		100	10.400	**1186049**
BS-H1-M-58 FT	52-58		100	13.100	**1186056**
BS-H1-M-64 FT	58-64		100	14.500	**1186062**
BS-H1-M-70 FT	64-70		50	16.100	**1186069**
BS-H1-M-76 FT	70-76		25	18.300	**1186076**
BS-H1-M-82 FT	76-82		25	19.100	**1186082**
BS-H1-M-90 FT	82-90		25	23.300	**1186089**
BS-H1-M-100 FT	90-100		25	24.500	**1186097**



Clamp clip with hammerhead foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. The counter-sleeve must be ordered separately.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H1-M-12 FT	8-12	22.5	17	28	M6	1.5	42	34	3
BS-H1-M-16 FT	12-16	22.5	20	28	M6	1.5	46	34	3
BS-H1-M-22 FT	16-22	22.5	27	28	M6	1.5	52	34	3
BS-H1-M-28 FT	22-28	22.5	33	28	M6	2	59	34	3
BS-H1-M-34 FT	28-34	22.5	39	34	M6	2	67	46	3
BS-H1-M-40 FT	34-40	22.5	45	33	M6	2	74	46	3
BS-H1-M-46 FT	40-46	25	51	33	M8	2	82	43	5
BS-H1-M-52 FT	46-52	25	57	33	M8	2	89	43	5
BS-H1-M-58 FT	52-58	25	64	33	M8	2.5	96	43	5
BS-H1-M-64 FT	58-64	25	70	33	M8	2.5	102	43	5
BS-H1-M-70 FT	64-70	25	76	33	M8	2.5	109	43	5
BS-H1-M-76 FT	70-76	25	82	37	M8	2.5	115	55	5
BS-H1-M-82 FT	76-82	25	88	37	M8	2.5	122	55	5
BS-H1-M-90 FT	82-90	27	97	38	M8	3	132	55	5
BS-H1-M-100 FT	90-100	27	107	38	M8	3	143	55	5

Dimensions



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Clamp clip 2056 H-foot, 2-fold, metal pressure sleeve

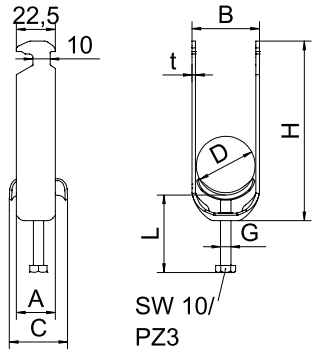
St FT
16-17 H E30 E90



Type	Clamping range D mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
BS-H2-M-12 FT	8-12		50	3.980	**1186003**
BS-H2-M-16 FT	12-16		50	4.750	**1186010**
BS-H2-M-22 FT	16-22		50	6.900	**1186017**
BS-H2-M-28 FT	22-28		50	7.800	**1186023**

Clamp clip with hammerhead foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 2 single cables on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H2-M-12 FT	8-12	22.5	17	28	M6	1.5	55	34	3
BS-H2-M-16 FT	12-16	22.5	20	28	M6	1.5	63	34	3
BS-H2-M-22 FT	16-22	22.5	27	28	M6	1.5	77	34	3
BS-H2-M-28 FT	22-28	22.5	33	28	M6	2	91	34	3

Clamp clip 2056 H-foot, 3-fold, metal pressure sleeve

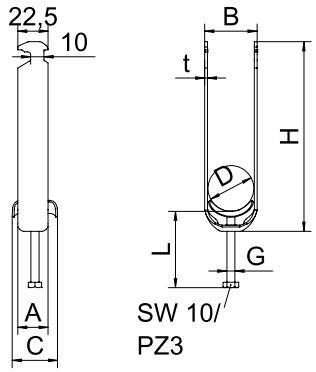
St FT
16-17 H E30 E90



Type	Clamping range D mm	BS	Pack Piece	Weight kg/100 pc.	Item no.
BS-H3-M-12 FT	8-12		50	4.050	**1186004**
BS-H3-M-16 FT	12-16		50	5.800	**1186012**
BS-H3-M-22 FT	16-22		50	6.500	**1186018**
BS-H3-M-28 FT	22-28		50	9.500	**1186024**

Clamp clip with hammerhead foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 3 single cables on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H3-M-12 FT	8-12	22.5	17	28	M6	1.5	68	46	3
BS-H3-M-16 FT	12-16	22.5	20	28	M6	1.5	81	46	3
BS-H3-M-22 FT	16-22	22.5	27	28	M6	1.5	101	58	3
BS-H3-M-28 FT	22-28	22.5	33	28	M6	2	121	58	3

A2 2B

16-17 H E30 E90

Clamp clip 2056 H-foot, 1-fold, metal pressure sleeve

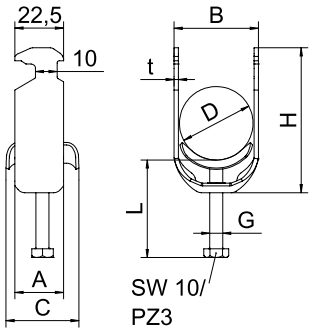
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-H1-M-12 A2	8-12	50	3.200	**1186102**
BS-H1-M-16 A2	12-16	50	3.500	**1186109**
BS-H1-M-22 A2	16-22	50	4.400	**1186116**
BS-H1-M-28 A2	22-28	25	6.100	**1186122**
BS-H1-M-52 A2	46-52	25	10.400	**1186149**
BS-H1-M-58 A2	52-58	15	13.100	**1186156**
BS-H1-M-34 A2	28-34	25	7.700	**1186129**
BS-H1-M-40 A2	34-40	25	8.600	**1186136**
BS-H1-M-46 A2	40-46	25	9.600	**1186142**
BS-H1-M-64 A2	58-64	15	14.500	**1186162**
BS-H1-M-70 A2	64-70	15	16.100	**1186169**
BS-H1-M-76 A2	70-76	10	18.300	**1186176**



Clamp clip with hammerhead foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H1-M-12 A2	8-12	22.5	17	28	M6	1.5	42	34	3
BS-H1-M-16 A2	12-16	22.5	20	28	M6	1.5	46	34	3
BS-H1-M-22 A2	16-22	22.5	27	28	M6	1.5	52	34	3
BS-H1-M-28 A2	22-28	22.5	33	28	M6	2	59	34	3
BS-H1-M-52 A2	46-52	25	57	33	M8	2	89	43	5
BS-H1-M-58 A2	52-58	25	64	33	M8	2.5	96	43	5
BS-H1-M-34 A2	28-34	22.5	39	34	M6	2	67	46	3
BS-H1-M-40 A2	34-40	22.5	45	33	M6	2	74	46	3
BS-H1-M-46 A2	40-46	25	51	33	M8	2	82	43	5
BS-H1-M-64 A2	58-64	25	70	33	M8	2.5	102	43	5
BS-H1-M-70 A2	64-70	25	76	33	M8	2.5	109	43	5
BS-H1-M-76 A2	70-76	25	82	37	M8	2.5	115	55	5

Dimensions



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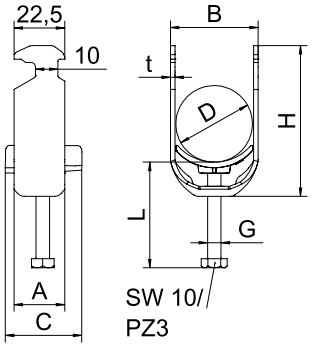
Clamp clip 2056 H-foot, 1-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-H1-K-12 FT	8-12	100	3.540	**1186202**
BS-H1-K-16 FT	12-16	100	3.820	**1186209**
BS-H1-K-22 FT	16-22	100	4.508	**1186216**
BS-H1-K-28 FT	22-28	100	6.240	**1186222**
BS-H1-K-34 FT	28-34	100	7.680	**1186229**
BS-H1-K-40 FT	34-40	100	8.260	**1186236**
BS-H1-K-46 FT	40-46	100	10.900	**1186242**
BS-H1-K-52 FT	46-52	100	11.900	**1186249**
BS-H1-K-58 FT	52-58	100	14.300	**1186256**
BS-H1-K-64 FT	58-64	100	15.600	**1186262**
BS-H1-K-70 FT	64-70	50	14.329	**1186269**
BS-H1-K-90 FT	82-90	25	26.200	**1186289**
BS-H1-K-76 FT	70-76	25	20.600	**1186276**
BS-H1-K-82 FT	76-82	25	22.000	**1186282**
BS-H1-K-100 FT	90-100	25	27.800	**1186297**

Clamp clip with hammerhead foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H1-K-12 FT	8-12	22.5	17	34	M6	1.5	42	35	3
BS-H1-K-16 FT	12-16	22.5	20	34	M6	1.5	46	35	3
BS-H1-K-22 FT	16-22	22.5	27	34	M6	1.5	52	35	3
BS-H1-K-28 FT	22-28	22.5	33	34	M6	2	59	35	3
BS-H1-K-34 FT	28-34	22.5	39	34	M6	2	67	47	3
BS-H1-K-40 FT	34-40	22.5	45	34	M6	2	74	47	3
BS-H1-K-46 FT	40-46	25	51	40	M8	2	82	45	5
BS-H1-K-52 FT	46-52	25	57	40	M8	2	89	45	5
BS-H1-K-58 FT	52-58	25	64	40	M8	2.5	96	45	5
BS-H1-K-64 FT	58-64	25	70	40	M8	2.5	102	45	5
BS-H1-K-70 FT	64-70	25	76	40	M8	2.5	109	45	5
BS-H1-K-90 FT	82-90	27	97	40	M8	3	132	58	5
BS-H1-K-76 FT	70-76	25	82	40	M8	2.5	115	58	5
BS-H1-K-82 FT	76-82	25	88	40	M8	2.5	122	58	5
BS-H1-K-100 FT	90-100	27	107	40	M8	3	143	58	5

St FT

16-17 H

Clamp clip 2056 H-foot, 2-fold, plastic pressure sleeve

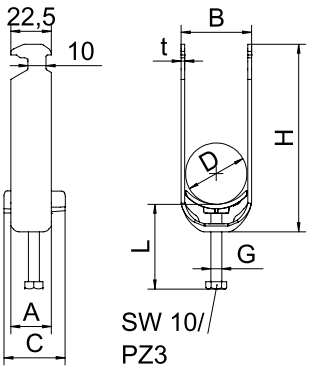
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-H2-K-12 FT	8-12	50	4.100	**1186203**
BS-H2-K-16 FT	12-16	50	4.650	**1186210**
BS-H2-K-22 FT	16-22	50	5.120	**1186217**
BS-H2-K-28 FT	22-28	50	7.700	**1186223**
BS-H2-K-34 FT	28-34	50	10.200	**1186230**
BS-H2-K-40 FT	34-40	50	11.450	**1186237**
BS-H2-K-46 FT	40-46	50	14.900	**1186243**
BS-H2-K-52 FT	46-52	50	11.900	**1186250**
BS-H2-K-58 FT	52-58	50	21.400	**1186257**
BS-H2-K-64 FT	58-64	50	24.250	**1186263**



Clamp clip with hammerhead foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 2 single cables on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H2-K-12 FT	8-12	22.5	17	34	M6	1.5	55	47	3
BS-H2-K-16 FT	12-16	22.5	20	34	M6	1.5	63	47	3
BS-H2-K-22 FT	16-22	22.5	27	34	M6	1.5	77	47	3
BS-H2-K-28 FT	22-28	22.5	33	34	M6	2	91	47	3
BS-H2-K-34 FT	28-34	22.5	39	34	M6	2	104	47	3
BS-H2-K-40 FT	34-40	22.5	45	34	M6	2	118	47	3
BS-H2-K-46 FT	40-46	25	51	40	M8	2	132	58	5
BS-H2-K-52 FT	46-52	25	57	40	M8	2	146	58	5
BS-H2-K-58 FT	52-58	25	64	40	M8	2.5	159	58	5
BS-H2-K-64 FT	58-64	25	70	40	M8	2.5	172	58	5

Dimensions



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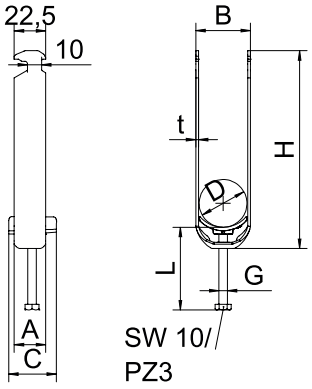
Clamp clip 2056 H-foot, 3-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-H3-K-12 FT	8-12	50	4.900	**1186204**
BS-H3-K-16 FT	12-16	50	6.200	**1186211**
BS-H3-K-22 FT	16-22	50	7.100	**1186218**
BS-H3-K-28 FT	22-28	50	10.650	**1186224**
BS-H3-K-34 FT	28-34	50	13.100	**1186231**
BS-H3-K-40 FT	34-40	50	14.350	**1186238**
BS-H3-K-46 FT	40-46	25	19.800	**1186244**

Clamp clip with hammerhead foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 3 single cables on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H3-K-12 FT	8-12	22.5	17	34	M6	1.5	68	47	3
BS-H3-K-16 FT	12-16	22.5	20	34	M6	1.5	81	47	3
BS-H3-K-22 FT	16-22	22.5	27	34	M6	1.5	101	59	3
BS-H3-K-28 FT	22-28	22.5	33	34	M6	2	121	59	3
BS-H3-K-34 FT	28-34	22.5	39	34	M6	2	141	59	3
BS-H3-K-40 FT	34-40	22.5	45	34	M6	2	161	59	3
BS-H3-K-46 FT	40-46	25	51	40	M8	2	182	72	5

A2 2B

16-17 H

Clamp clip 2056 H-foot, 1-fold, plastic pressure sleeve

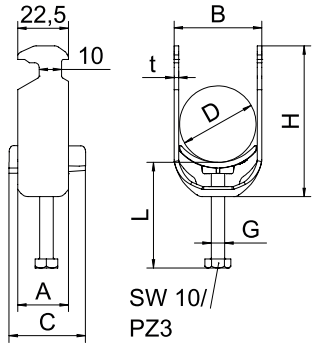
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-H1-K-12 A2	8-12	50	3.300	**1186302**
BS-H1-K-16 A2	12-16	50	3.600	**1186309**
BS-H1-K-22 A2	16-22	50	4.200	**1186316**
BS-H1-K-28 A2	22-28	50	6.500	**1186322**
BS-H1-K-34 A2	28-34	50	7.400	**1186329**
BS-H1-K-40 A2	34-40	25	8.000	**1186336**
BS-H1-K-46 A2	40-46	25	10.900	**1186342**
BS-H1-K-52 A2	46-52	25	11.400	**1186349**
BS-H1-K-58 A2	52-58	25	14.500	**1186356**
BS-H1-K-64 A2	58-64	15	15.600	**1186362**
BS-H1-K-70 A2	64-70	15	18.200	**1186369**
BS-H1-K-76 A2	70-76	10	20.800	**1186376**



Clamp clip with hammerhead foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H1-K-12 A2	8-12	22.5	17	34	M6	1.5	42	35	3
BS-H1-K-16 A2	12-16	22.5	20	34	M6	1.5	46	35	3
BS-H1-K-22 A2	16-22	22.5	27	34	M6	1.5	52	35	3
BS-H1-K-28 A2	22-28	22.5	33	34	M6	2	59	35	3
BS-H1-K-34 A2	28-34	22.5	39	34	M6	2	67	47	3
BS-H1-K-40 A2	34-40	22.5	45	34	M6	2	75	47	3
BS-H1-K-46 A2	40-46	25	51	40	M8	2	82	45	5
BS-H1-K-52 A2	46-52	25	51	40	M8	2	89	45	5
BS-H1-K-58 A2	52-58	25	64	40	M8	2.5	96	45	5
BS-H1-K-64 A2	58-64	25	70	40	M8	2.5	102	45	5
BS-H1-K-70 A2	64-70	25	76	40	M8	2.5	109	45	5
BS-H1-K-76 A2	70-76	25	82	40	M8	2.5	115	58	5

Dimensions



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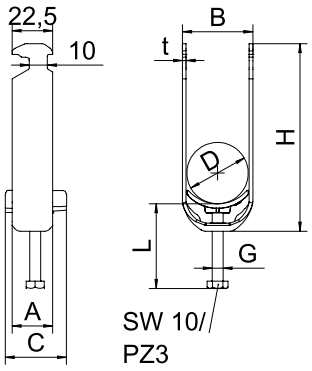
Clamp clip 2056 H-foot, 2-fold, plastic pressure sleeve



Type	Clamping range D mm		Pack Piece	Weight kg/100 pc.	Item no.
BS-H2-K-16 A2	12-16		50	4.650	**1186310**
BS-H2-K-22 A2	16-22		50	5.150	**1186317**
BS-H2-K-28 A2	16-22		50	7.700	**1186323**
BS-H2-K-34 A2	28-34		50	10.200	**1186330**
BS-H2-K-40 A2	34-40		25	14.350	**1186337**
BS-H2-K-46 A2	40-46		25	14.950	**1186343**
BS-H2-K-52 A2	46-52		25	16.700	**1186350**
BS-H2-K-58 A2	52-58		25	21.400	**1186357**
BS-H2-K-64 A2	58-64		15	24.250	**1186363**

Clamp clip with hammerhead foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 2 single cables on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H2-K-16 A2	12-16	22.5	20	34	M6	1.5	63	47	3
BS-H2-K-22 A2	16-22	22.5	27	34	M6	1.5	77	47	3
BS-H2-K-28 A2	16-22	22.5	33	34	M6	2	91	47	3
BS-H2-K-34 A2	28-34	22.5	39	34	M6	2	104	47	3
BS-H2-K-40 A2	34-40	22.5	45	34	M6	2	118	47	3
BS-H2-K-46 A2	40-46	25	51	40	M8	2	132	58	5
BS-H2-K-52 A2	46-52	25	57	40	M8	2	146	58	5
BS-H2-K-58 A2	52-58	25	64	40	M8	2.5	159	58	5
BS-H2-K-64 A2	58-64	25	70	40	M8	2.5	172	58	5

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16-17 H

Clamp clip 2056 H-foot, 1-fold, plastic pressure sleeve

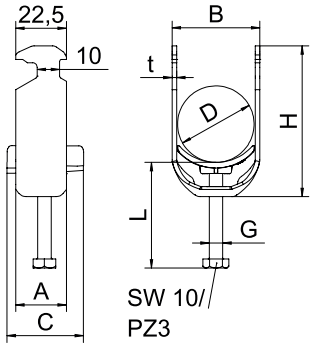
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-H1-K-12 ALU	8-12	100	0.750	**1186402**
BS-H1-K-16 ALU	12-16	100	0.900	**1186409**
BS-H1-K-22 ALU	16-22	100	1.050	**1186416**
BS-H1-K-28 ALU	22-28	100	1.500	**1186422**
BS-H1-K-34 ALU	28-34	100	2.300	**1186429**
BS-H1-K-40 ALU	34-40	100	2.700	**1186436**
BS-H1-K-46 ALU	40-46	100	3.600	**1186442**
BS-H1-K-52 ALU	46-52	100	3.900	**1186449**
BS-H1-K-58 ALU	52-58	50	4.200	**1186456**
BS-H1-K-64 ALU	58-64	50	4.500	**1186462**
BS-H1-K-70 ALU	64-70	50	5.400	**1186469**
BS-H1-K-76 ALU	70-76	25	5.850	**1186476**



Clamp clip with hammerhead foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H1-K-12 ALU	8-12	22.5	17	34	M6	1.5	42	35	2
BS-H1-K-16 ALU	12-16	22.5	20	34	M6	1.5	46	35	2
BS-H1-K-22 ALU	16-22	22.5	27	34	M6	1.5	52	35	2
BS-H1-K-28 ALU	22-28	22.5	33	34	M6	2	59	35	2
BS-H1-K-34 ALU	28-34	22.5	39	34	M6	2	67	47	2
BS-H1-K-40 ALU	34-40	22.5	45	34	M6	2	74	47	2
BS-H1-K-46 ALU	40-46	25	51	40	M8	2	82	45	2
BS-H1-K-52 ALU	46-52	25	57	40	M8	2	89	45	2
BS-H1-K-58 ALU	52-58	25	64	40	M8	2.5	96	45	2
BS-H1-K-64 ALU	58-64	25	70	40	M8	2.5	102	45	2
BS-H1-K-70 ALU	64-70	25	76	40	M8	2.5	109	45	2
BS-H1-K-76 ALU	70-76	25	82	40	M8	2.5	115	58	2

Dimensions



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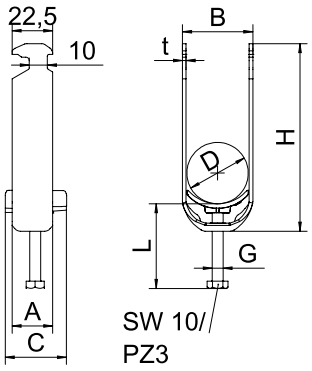
Clamp clip 2056 H-foot, 2-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-H2-K-12 ALU	8-12	50	1.000	**1186403**
BS-H2-K-16 ALU	12-16	50	1.250	**1186410**
BS-H2-K-22 ALU	16-22	50	1.500	**1186417**
BS-H2-K-28 ALU	22-28	50	2.000	**1186423**
BS-H2-K-34 ALU	28-34	50	3.200	**1186430**
BS-H2-K-40 ALU	34-40	50	3.750	**1186437**
BS-H2-K-46 ALU	40-46	50	4.850	**1186443**
BS-H2-K-52 ALU	46-52	50	5.300	**1186450**
BS-H2-K-58 ALU	52-58	50	6.000	**1186457**

Clamp clip with hammerhead foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 2 single cables on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H2-K-12 ALU	8-12	22.5	17	34	M6	1.5	55	47	2
BS-H2-K-16 ALU	12-16	22.5	20	34	M6	1.5	63	47	2
BS-H2-K-22 ALU	16-22	22.5	27	34	M6	1.5	77	47	2
BS-H2-K-28 ALU	22-28	22.5	33	34	M6	2	91	47	2
BS-H2-K-34 ALU	28-34	22.5	36	34	M6	2	104	47	2
BS-H2-K-40 ALU	34-40	22.5	45	34	M6	2	118	47	2
BS-H2-K-46 ALU	40-46	25	51	40	M8	2	132	58	2
BS-H2-K-52 ALU	46-52	25	57	40	M8	2	89	58	2
BS-H2-K-58 ALU	52-58	25	64	40	M8	2.5	159	58	2

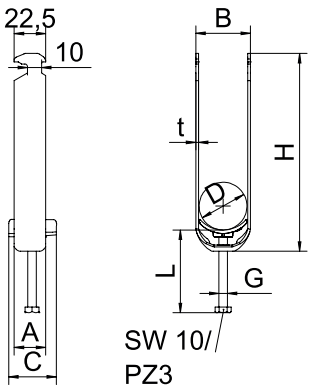
Clamp clip 2056 H-foot, 3-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-H3-K-22 ALU	16-22	50	2.050	**1186418**
BS-H3-K-28 ALU	22-28	50	2.900	**1186424**
BS-H3-K-34 ALU	28-34	50	4.200	**1186431**

Clamp clip with hammerhead foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 3 single cables on a C-profile rail. For a slot width 16–17 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-H3-K-22 ALU	16-22	22.5	27	34	M6	1.5	101	59	2
BS-H3-K-28 ALU	22-28	22.5	33	34	M6	2	121	59	2
BS-H3-K-34 ALU	28-34	22.5	39	34	M6	2	141	59	2

St FT

Clamp clip 2056 F-foot, 1-fold, metal pressure sleeve

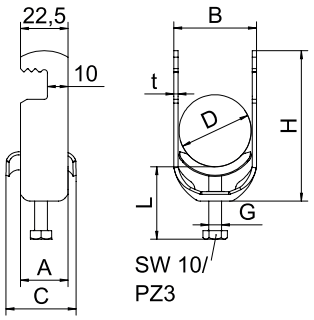
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-F1-M-12 FT	8-12	100	3.700	**1187402**
BS-F1-M-16 FT	12-16	100	3.900	**1187408**
BS-F1-M-22 FT	16-22	100	4.550	**1187414**
BS-F1-M-28 FT	22-28	100	6.000	**1187420**
BS-F1-M-34 FT	28-34	100	8.000	**1187426**



Clamp clip with F-foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 1 single cable on flat bars. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-F1-M-12 FT	8-12	22.5	17	28	M6	1.5	47	34	3
BS-F1-M-16 FT	12-16	22.5	20	28	M6	1.5	51	34	3
BS-F1-M-22 FT	16-22	22.5	27	28	M6	1.5	58	34	3
BS-F1-M-28 FT	22-28	22.5	33	28	M6	2	64	34	3
BS-F1-M-34 FT	28-34	22.5	39	34	M6	2	71	34	3

Dimensions



A2 2B

Clamp clip 2056 F-foot, 1-fold, metal pressure sleeve

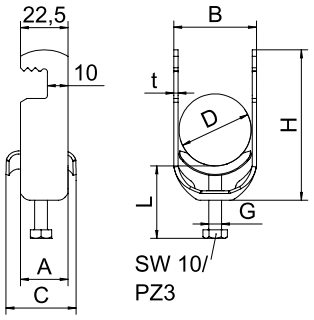
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-F1-M-28 A2	22-28	100	6.000	**1187520**
BS-F1-M-34 A2	28-34	100	8.000	**1187526**
BS-F1-M-40 A2	34-40	100	8.500	**1187532**



Clamp clip with F-foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 1 single cable on flat bars. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-F1-M-28 A2	22-28	22.5	33	28	M6	2	64	34	3
BS-F1-M-34 A2	28-34	22.5	39	33	M6	2	71	34	3
BS-F1-M-40 A2	34-40	22.5	45	33	M6	2	77	34	3

Dimensions



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Clamp clip F-foot

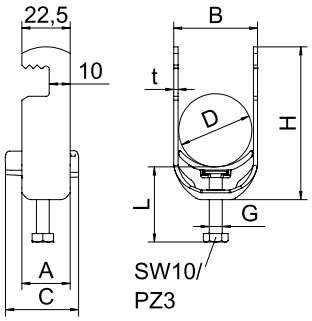
Clamp clip 2056 F-foot, 1-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-F1-K-12 FT	8-12	100	3.700	**1187602**
BS-F1-K-16 FT	12-16	100	3.900	**1187608**
BS-F1-K-22 FT	16-22	100	4.500	**1187614**
BS-F1-K-28 FT	22-28	100	6.000	**1187620**
BS-F1-K-34 FT	28-34	100	8.740	**1187626**
BS-F1-K-40 FT	34-40	100	8.500	**1187632**
BS-F1-K-46 FT	40-46	100	10.600	**1187638**
BS-F1-K-52 FT	46-52	100	11.700	**1187644**
BS-F1-K-58 FT	52-58	50	13.050	**1187650**
BS-F1-K-64 FT	58-64	50	14.800	**1187656**

Clamp clip with F-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on flat bars. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-F1-K-12 FT	8-12	22.5	17	34	M6	1.5	47	35	3
BS-F1-K-16 FT	12-16	22.5	20	34	M6	1.5	51	35	3
BS-F1-K-22 FT	16-22	22.5	27	34	M6	1.5	58	35	3
BS-F1-K-28 FT	22-28	22.5	33	34	M6	2	64	35	3
BS-F1-K-34 FT	28-34	22.5	39	34	M6	2	71	35	3
BS-F1-K-40 FT	34-40	22.5	45	34	M6	2	77	35	3
BS-F1-K-46 FT	40-46	25	51	40	M8	2	83	45	5
BS-F1-K-52 FT	46-52	25	57	40	M8	2	90	45	5
BS-F1-K-58 FT	52-58	25	64	40	M8	2.5	96	45	5
BS-F1-K-64 FT	58-64	25	70	40	M8	2.5	102	45	5

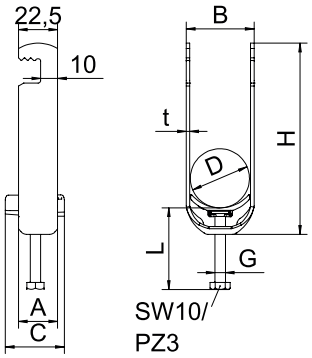
Clamp clip 2056 F-foot, 2-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-F2-K-12 FT	8-12	50	4.250	**1187603**
BS-F2-K-16 FT	12-16	50	4.550	**1187609**
BS-F2-K-22 FT	16-22	50	5.200	**1187615**
BS-F2-K-28 FT	22-28	50	7.900	**1187621**
BS-F2-K-34 FT	28-34	50	9.900	**1187627**
BS-F2-K-40 FT	34-40	50	10.672	**1187633**
BS-F2-K-46 FT	40-46	50	12.050	**1187639**
BS-F2-K-52 FT	46-52	50	16.600	**1187645**

Clamp clip with F-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 2 single cables on flat bars. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-F2-K-12 FT	8-12	22.5	17	34	M6	1.5	64	35	3
BS-F2-K-16 FT	12-16	22.5	20	34	M6	1.5	72	35	3
BS-F2-K-22 FT	16-22	22.5	27	34	M6	1.5	85	47	3
BS-F2-K-28 FT	22-28	22.5	33	34	M6	2	97	47	3
BS-F2-K-34 FT	28-34	22.5	39	34	M6	2	110	47	3
BS-F2-K-40 FT	34-40	22.5	45	34	M6	2	123	47	3
BS-F2-K-46 FT	40-46	25	51	40	M8	2	135	45	5
BS-F2-K-52 FT	46-52	25	57	40	M8	2	148	45	5

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Clamp clip 2056 W-foot, 1-fold, plastic pressure sleeve

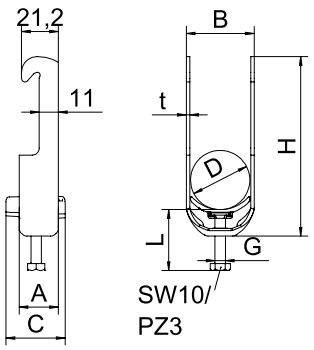
Type	Clamping range D mm		Pack Piece	Weight kg/100 pc.	Item no.
BS-W1-K-12 FT	8-12		100	4.450	**1187702**
BS-W1-K-16 FT	12-16		100	4.890	**1187708**
BS-W1-K-22 FT	16-22		100	5.700	**1187714**
BS-W1-K-28 FT	22-28		100	7.800	**1187720**
BS-W1-K-34 FT	28-34		100	9.400	**1187726**
BS-W1-K-40 FT	34-40		100	10.000	**1187732**
BS-W1-K-46 FT	40-46		100	12.800	**1187738**
BS-W1-K-52 FT	46-52		100	13.600	**1187744**
BS-W1-K-58 FT	52-58		50	17.100	**1187750**
BS-W1-K-64 FT	58-64		50	18.600	**1187756**
BS-W1-K-70 FT	64-70		50	18.500	**1187762**



Clamp clip with W-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on angle irons < 40 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-W1-K-12 FT	8-12	22.5	17	34	M6	1.5	80	35	3
BS-W1-K-16 FT	12-16	22.5	20	34	M6	1.5	84	35	3
BS-W1-K-22 FT	16-22	22.5	27	34	M6	1.5	91	35	3
BS-W1-K-28 FT	22-28	22.5	33	34	M6	2	97	35	3
BS-W1-K-34 FT	28-34	22.5	39	34	M6	2	103	35	3
BS-W1-K-40 FT	34-40	22.5	45	34	M6	2	109	35	3
BS-W1-K-46 FT	40-46	25	51	40	M8	2	115	45	5
BS-W1-K-52 FT	46-52	25	57	40	M8	2	122	45	5
BS-W1-K-58 FT	52-58	25	64	40	M8	2.5	128	45	5
BS-W1-K-64 FT	58-64	25	70	40	M8	2.5	134	45	5
BS-W1-K-70 FT	64-70	25	76	40	M8	2.5	140	45	5

Dimensions



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Clamp clip W-foot

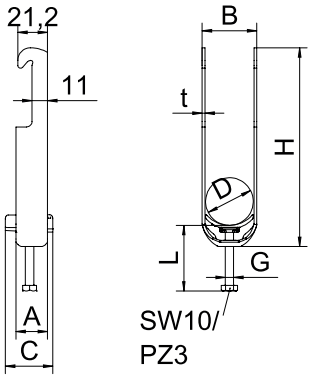
Clamp clip 2056 W-foot, 2-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-W2-K-16 FT	12-16	50	7.050	**1187709**
BS-W2-K-22 FT	16-22	50	7.050	**1187715**
BS-W2-K-28 FT	22-28	50	10.350	**1187721**
BS-W2-K-34 FT	28-34	50	11.600	**1187727**
BS-W2-K-40 FT	34-40	25	12.700	**1187733**
BS-W2-K-46 FT	40-46	25	16.750	**1187739**
BS-W2-K-52 FT	46-52	25	18.200	**1187745**
BS-W2-K-58 FT	52-58	25	23.000	**1187751**

Clamp clip with W-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 2 single cables on angle irons < 40 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. Multiple cables should be separated by double sleeves. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-W2-K-16 FT	12-16	22.5	20	34	M6	1.5	105	35	3
BS-W2-K-22 FT	16-22	22.5	27	34	M6	1.5	118	47	3
BS-W2-K-28 FT	22-28	22.5	33	34	M6	2	130	47	3
BS-W2-K-34 FT	28-34	22.5	39	34	M6	2	142	47	3
BS-W2-K-40 FT	34-40	22.5	45	34	M6	2	155	47	3
BS-W2-K-46 FT	40-46	25	51	40	M8	2	167	45	5
BS-W2-K-52 FT	46-52	25	57	40	M8	2	180	45	5
BS-W2-K-58 FT	52-58	25	64	40	M8	2.5	192	45	5

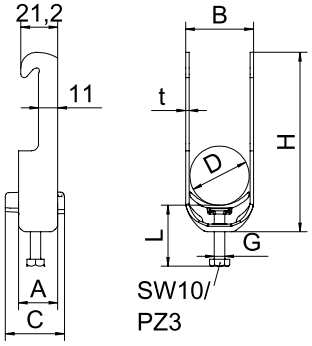
Clamp clip 2056 W-foot, 1-fold, plastic pressure sleeve



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-W1-K-22 A2	16-22	50	5.700	**1187814**
BS-W1-K-28 A2	22-28	50	7.800	**1187820**
BS-W1-K-34 A2	28-34	50	9.400	**1187826**
BS-W1-K-40 A2	34-40	25	10.000	**1187832**
BS-W1-K-46 A2	40-46	25	12.800	**1187838**
BS-W1-K-52 A2	46-52	25	13.600	**1187844**
BS-W1-K-58 A2	52-58	25	17.100	**1187850**

Clamp clip with W-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on angle irons < 40 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-W1-K-22 A2	16-22	22.5	27	34	M6	1.5	91	35	3
BS-W1-K-28 A2	22-28	22.5	33	34	M6	2	97	35	3
BS-W1-K-34 A2	28-34	22.5	39	34	M6	2	103	35	3
BS-W1-K-40 A2	34-40	22.5	45	34	M6	2	109	35	3
BS-W1-K-46 A2	40-46	25	51	40	M8	2	115	45	5
BS-W1-K-52 A2	46-52	25	57	40	M8	2	122	45	5
BS-W1-K-58 A2	52-58	25	64	40	M8	2.5	128	45	5

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Clamp clip 2056 W-foot, 1-fold, plastic pressure sleeve

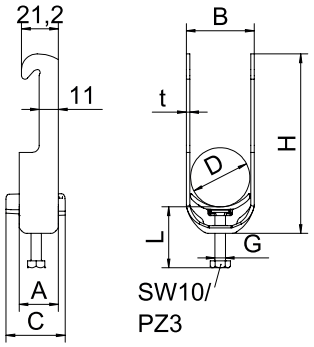
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-W1-K-22 ALU	16-22	50	1.900	**1187914**
BS-W1-K-28 ALU	22-28	50	2.550	**1187920**
BS-W1-K-34 ALU	28-34	50	3.200	**1187926**
BS-W1-K-40 ALU	34-40	50	3.500	**1187932**
BS-W1-K-46 ALU	40-46	50	4.550	**1187938**
BS-W1-K-52 ALU	46-52	50	4.800	**1187944**
BS-W1-K-58 ALU	52-58	50	5.850	**1187950**
BS-W1-K-64 ALU	58-64	50	6.450	**1187956**



Clamp clip with W-foot, plastic pressure sleeve made of polypropylene. For vertical and horizontal mounting of 1 single cable on angle irons < 40 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-W1-K-22 ALU	16-22	22.5	27	34	M6	1.5	91	35	2
BS-W1-K-28 ALU	22-28	22.5	33	34	M6	2	97	35	2
BS-W1-K-34 ALU	28-34	22.5	39	34	M6	2	103	35	2
BS-W1-K-40 ALU	34-40	22.5	45	34	M6	2	109	35	2
BS-W1-K-46 ALU	40-46	25	51	40	M8	2	115	45	2
BS-W1-K-52 ALU	46-52	25	57	40	M8	2	122	45	2
BS-W1-K-58 ALU	52-58	25	64	40	M8	2.5	128	45	2
BS-W1-K-64 ALU	58-64	25	70	40	M8	2.5	134	45	2

Dimensions



A2 2B

Clamp clip 2056 W-foot, 1-fold, metal pressure sleeve

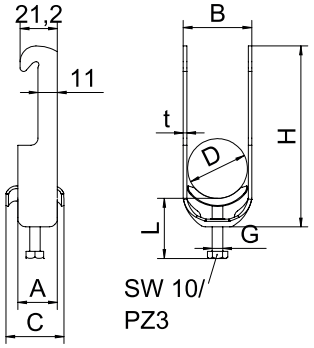
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
BS-W1-M-28 A2	22-28	100	7.800	**1188020**
BS-W1-M-34 A2	28-34	100	9.400	**1188026**
BS-W1-M-40 A2	34-40	100	10.000	**1188032**



Clamp clip with W-foot, metal pressure sleeve with rounded edges to protect the cable. For vertical and horizontal mounting of 1 single cable on angle irons < 40 mm. With 1-start screw thread on pressure sleeve, universal hexagonal screw head WAF10, with slot and cross recess. Suitable for assembly indoors and outdoors. We recommend the use of a counter-sleeve.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
BS-W1-M-28 A2	22-28	22.5	33	28	M6	2	97	34	3
BS-W1-M-34 A2	28-34	22.5	39	34	M6	2	103	34	3
BS-W1-M-40 A2	34-40	22.5	45	33	M6	2	109	34	3

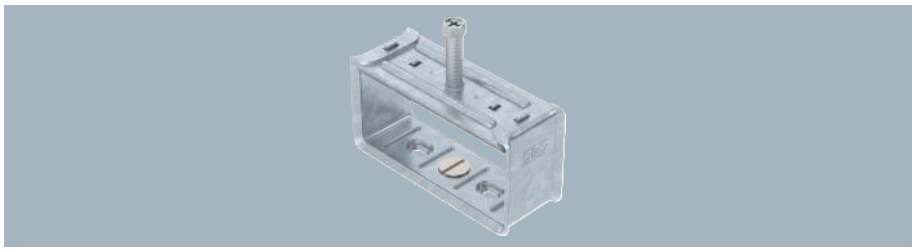
Dimensions

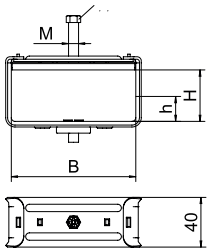


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Bundle clips

Bundle clip

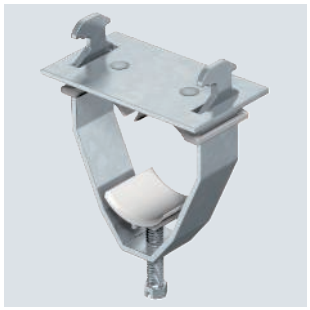




Type	Height x Width mm	Dim. h mm	Dim. H mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 B 35 FT	35 x 50	20	35	50	100	16.000	**1194054**
2056 B 40 FT	40 x 100	15	40	100	50	32.700	**1194046**

Clip and bolt made of hot-dip galvanised steel, countersunk head bolt made of rustproof stainless steel, slide nut made of electrogalvanised stainless steel.

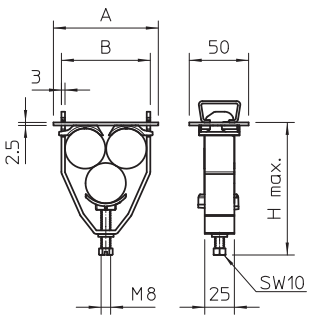
Clamp clip, hammer-head base, 3x single-wire connection



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 E 31 FT	28-31	25	19.500	**1174606**
2056 E 37 FT	34-37	25	24.600	**1174614**
2056 E 44 FT	40-44	25	28.300	**1174630**

Clip element, bolt and lock plate made of hot-dip galvanised steel, pressure and counter-trough made of polypropylene, halogen-free, light grey RAL 7035.
Delivered complete with lock plate and counter-troughs.

Dimensions



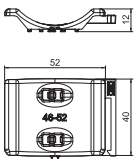
Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. H mm	Max. torque Nm
2056 E 31 FT	28-31	83	69	107	5
2056 E 37 FT	34-37	95	81	118	5
2056 E 44 FT	40-44	109	95	143	5

PP

F N H U W

Universal counter-trough, plastic

Type	Clamping range D mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Shipping box Piece	Pack Piece	Item no.
2058UW 12 LGR	8-12	37	18.5	5.8	Light grey	1500	100	**1198012**
2058UW 16 LGR	12-16	37	21.5	5.8	Light grey	1600	100	**1198016**
2058UW 22 LGR	16-22	37	27.5	6.8	Light grey	1500	100	**1198022**
2058UW 28 LGR	22-28	37	33.5	8.3	Light grey	1200	100	**1198028**
2058UW 34 LGR	28-34	37	45.5	9.8	Light grey	1200	100	**1198034**
2058UW 40 LGR	34-40	37	45.5	10.8	Light grey	600	50	**1198040**
2058UW 46 LGR	40-46	40	51.5	11.8	Light grey	600	50	**1198046**
2058UW 52 LGR	46-52	40	57.5	11.8	Light grey	600	50	**1198052**
2058UW 58 LGR	52-58	40	63.5	11.8	Light grey	600	50	**1198058**
2058UW 64 LGR	58-64	40	69.5	11.8	Light grey	600	50	**1198064**
2058UW 70 LGR	64-70	40	75.5	12.3	Light grey	300	25	**1198070**
2058UW 76 LGR	70-76	40	81.5	12.3	Light grey	300	25	**1198076**
2058UW 82 LGR	76-82	40	87.5	12.3	Light grey	300	25	**1198082**
2058UW 90 LGR	82-90	40	96	12.8	Light grey	300	25	**1198090**
2058UW 100 LGR	90-100	40	106	12.8	Light grey	300	25	**1198100**





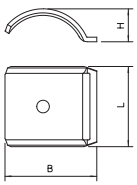
Regardless of the type of rail, the counter-trough can be used by applying it onto one side of the clamp clip. Due to an intelligent contour on the backside, the counter-trough can be combined to a double trough. Retrofitting possible without the need to dismantle.

St A2 DD 2B

F N H U W

Counter-trough, metal, universal

Type	Clamping range D mm	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2058FW M 28 DD	22-28	35	34	10.4	100	1.400	**1199870**
2058FW M 12 A2	8-12	35	17.5	6.5	100	0.567	**1197134**
2058FW M 16 A2	12-16	35	21.5	7.7	100	0.770	**1197177**





Metal counter-trough, for mounting on clamp clip. Can be used universally, irrespective of the rail.

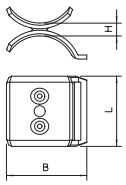
Double troughs

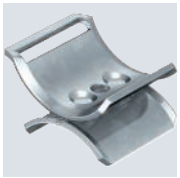
St DD

F N H U W

Double trough, metal

Type	Clamping range D mm	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2058 M2 34 DD	28-34	35	40	6.4	50	3.760	**1199749**





Metallic double trough as intermediate layer between two or three cables within a clamp clip.

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Tightening strap

SBR 15 tightening strap

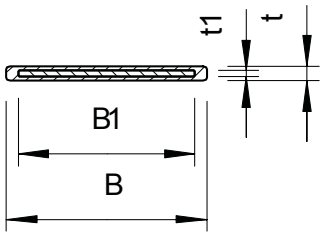
A2 K



Type	Avg. breaking load kN	Colour	Pack m	Weight kg/100 m	Item no.
SBR 15 A2K	4.19	Jet black	25	7.628	**6490282**

Tightening strap made of strip-galvanised steel with plastic jacketing to fasten cables on cable support systems.

Dimensions



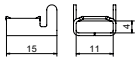
Type	Dim. B mm	Dim. t mm	Dimension B1 mm	Dim. t1 mm
SBR 15 A2K	17	1.2	15	0.5

Tightening strap locks

SBV 8 tightening strap lock

St A2 FS 2B



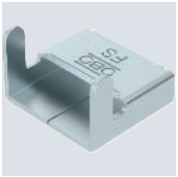


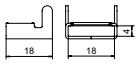
Type	Pack Piece	Weight kg/100 pc.	Item no.
SBV 8 FS	100	0.250	**6490940**
SBV 8 A2	100	0.250	**6490942**

Tightening strap lock made of strip-galvanised steel, suitable for portfolio with 8 mm width.

SBV 15 tightening strap lock

St FS





Type	Pack Piece	Weight kg/100 pc.	Item no.
SBV 15 FS	100	0.560	**6490950**

Tightening strap lock made of strip-galvanised steel, suitable for a range of products with a 15 mm width.

St FT

Slotted steel strap in strips

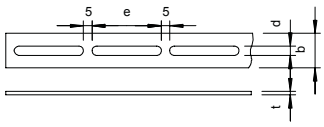
Type	Dimension mm	Hole size mm	Length mm	Pack m	Weight kg/100 m	Item no.
OSS 20x3 3M FT	20 x 3	6,5 x 40	3000	60	35.000	**1465767**
OSS 30x3 3M FT	30 x 3	8,5 x 70	3000	30	53.600	**1465805**

Perforated slotted steel strap in strips.



Type	Dim. b mm	Dim. d mm	Dim. e mm	Dim. t mm
OSS 20x3 3M FT	20	6.5	40	3
OSS 30x3 3M FT	30	8.5	70	3

Dimensions

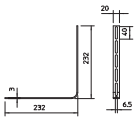


St FT

Slotted steel strap, bent

Type	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
OSG 20X3 FT	20x3	25	15.800	**6017371**

Bent slotted steel strap for creation of bends and tees.



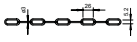


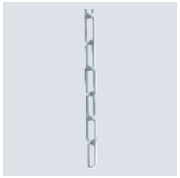
St G

Suspension chain

Type	Break load kN	Pack m	Weight kg/100 m	Item no.
K-C30 G	0.7	25	13.600	**1488201**

To suspend luminaire supports or other components.



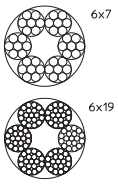


St G

Steel wire tensioning rope

Type	Cable diameter mm	Break load kN	In rings m	Pack m	Weight kg/100 m	Item no.
957 2 G	2	2.35	50	50	1.430	**5303202**
957 3 G	3	5.29	50	50	3.220	**5303206**
957 4 G	4	9.41	50	50	5.720	**5303214**

Steel wire tensioning rope, galvanised with fibre inlay (hemp core).
Cable Ø 2–6 mm: round-stranded cable 6 x 7 according to DIN 3055.
Cable Ø 8–10 mm: round-stranded cable 6 x19 according to DIN 3060.
Minimum break force 1770 N/mm².





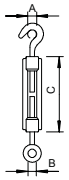
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Tensioning wire

Tension jack

St G





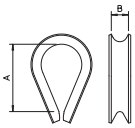
Type	Thread	Dim. A mm	Dim. B mm	Dim. C mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
945 M6 G	M6	9	8.5	110	2	5	8.642	**5300037**

With hook and eye, to DIN 1480.

Cable eye stiffener

St G



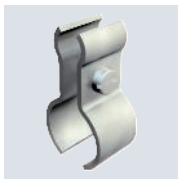


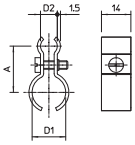
Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
946 4 G	4	28.5	5	25	0.390	**5301041**

Cable eye stiffener to DIN 65457.

Tensioning wire clip

St G





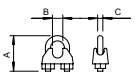
Type	Dim. D1 mm	Dim. D2 mm	Dim. A mm	Pack Piece	Weight kg/100 pc.	Item no.
1020 11-16 G	11-16	4-9	22	50	1.420	**1404164**
1020 14-18 G	14-18	4-9	26	50	1.650	**1404180**
1020 18-28 G	19-28	4-9	34	50	2.000	**1404288**

To fasten cables to tensioning cables. With bolt M4x13.

Wire cable clamp

St G





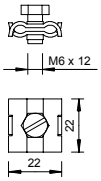
Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Dim. C mm	Pack Piece	Weight kg/100 pc.	Item no.
947 3 G	3	20	4	4	25	1.100	**5302021**
947 6 G	6	28	8	5	25	1.700	**5302064**

Wire cable clamp for fastening steel wire tensioning ropes.

Wire cable clamp

St G



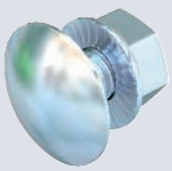


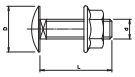
Type	For rope-Ø mm	Bolt	Pack Piece	Weight kg/100 pc.	Item no.
261 3-6 G	3-6	M6x12	100	1.498	**5305012**

Wire cable clamp for fastening steel wire tensioning ropes.

Truss-head bolt with flange nut

St G



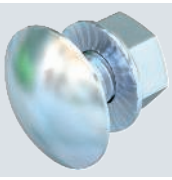


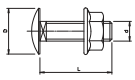
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRSB 6x12 VZ G	M6x12	12	6	13.5	5.6	10	0.700	**6406133**
FRSB 6x12 G	M6x12	12	6	13.5	5.6	100	0.804	**6406130**
FRSB 6x20 G	M6x20	20	6	13.5	5.6	100	0.903	**6406181**

Hot galvanised truss-head bolt with square neck including electrogalvanised combination nut.
For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

Truss-head bolt with flange nut

St F



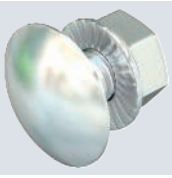


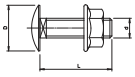
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRSB 6x12 F	M6x12	12	6	13.5	5.6	100	0.812	**6406122**
FRSB 6x16 F	M6x16	16	6	13.5	5.6	100	0.890	**6406157**
FRSB 6x20 F	M6x20	20	6	13.5	5.6	100	0.965	**6406203**
FRSB 6x30 F	M6x30	30	6	13.5	5.6	100	1.232	**6406907**

Truss-head bolt with square neck including flange nut.

Truss-head bolt with flange nut

A2 VA 2B



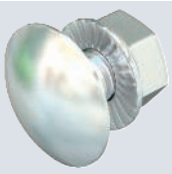


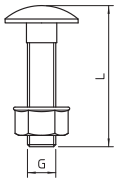
Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRSB 6x12 A2	M6x12	12	6	13.5	A2-70	100	0.830	**6406138**
FRSB 6x16 A2	M6x16	16	6	13.5	A2-70	100	0.800	**6406189**
FRSB 6x20 A2	M6x20	20	6	13.5	A2-70	100	0.960	**6406205**
FRSB 6x12 A4	M6x12	12	6	13.5	A4-50	100	0.796	**6406142**

Truss-head bolt with square neck including flange nut.

Truss-head bolt with combination nut, V2A

A2 2B





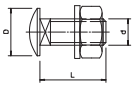
Type	Dimension mm	Dim. D mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
FRSB M10x20 A2	M10x20	10	20	50	3.000	**3175620**
FRSB M10x25 A2	M10x25	10	25	50	3.700	**3175625**

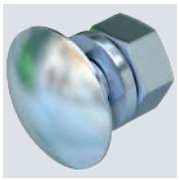
Truss-head bolt with square neck and combination nut.

St F

Truss-head bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 8x16 F 8.8	M8x16	16	8	20	8.8	50	1.947	**6406963**
FRS 8x16 F 5.6	M8x16	16	8	20	5.6	50	2.000	**6406939**
FRS 8x20 F	M8x20	20	8	20	5.6	50	2.054	**6406971**
FRS 8x25 F	M8x25	25	8	20	8.8	50	2.217	**6406998**
FRS 8x35 F	M8x35	35	8	20	5.6	50	2.431	**6407048**
FRS 10x20 F	M10x20	20	10	24	8.8	50	4.100	**6407471**
FRS 10x25 F	M10x25	25	10	24	5.6	50	4.077	**6407528**
FRS 10x25 F 8.8	M10x25	25	10	24	8.8	50	4.500	**6407560**
FRS 10x25 TPS F	M10x25	25	10	18	5.6	50	4.300	**6407536**
FRS 10x30 F	M10x30	30	10	24	8.8	50	4.187	**6407579**
FRS 12x25 F	M12x25	25	12	30	5.6	50	6.518	**6406254**
FRS 12x30 F	M12x30	30	12	30	5.6	50	6.805	**6406270**



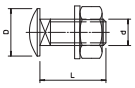


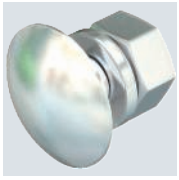
Truss-head bolt with square neck. With washer and hexagonal nut.
The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

A2 2B

Truss-head bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. D mm	Dim. d mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 10x25 TPS A2	M10x25	25	18	10	A2-70	50	4.000	**6407537**



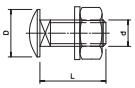


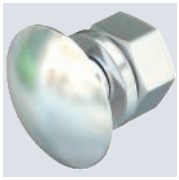
Truss-head bolt with square neck. With washer and hexagonal nut.
The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

A2 2B

Truss-head bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 6x12 A2	M6x12	12	6	13.5	A2-70	100	0.760	**6406521**
FRS 6x16 A2	M6x16	15	6	13.5	A2-70	100	0.869	**6406556**
FRS 6x20 A2	M6x20	20	6	13.5	A2-70	100	0.942	**6406602**
FRS 8x16 A2	M8x16	16	8	20	A2-70	50	1.926	**6406696**
FRS 8x25 A2	M8x25	25	8	20	A2-70	50	2.300	**6406815**
FRS 8x35 A2	M8x35	35	8	20	A2-70	50	2.700	**6406823**
FRS 10x20 A2	M10x20	20	10	24	A2-70	50	4.100	**6406866**
FRS 10x25 A2	M10x25	25	10	24	A2-70	50	3.905	**6406718**
FRS 10x30 A2	M10x30	30	10	24	A2-70	50	4.500	**6406726**



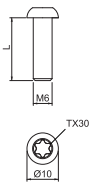


Truss-head bolt with square neck including washer and hexagonal nut.

St G

Flat-head screw with internal Torx, steel

Type	Dimension mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
7380T 6x20 G	M6x20	Torx	100	0.570	**3164952**
7380T 6x35 G	M6x35	Torx	100	0.910	**3164956**





Flat head screw with TX 30, according to ISO 7380-1, suitable for fastening cable routes on brackets as well as for the mounting of barrier strips. The rounded head shape provides optimum cable protection. The Torx drive offers optimum force transmission in the screw movement.

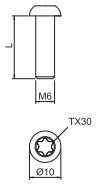
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Truss-head bolts

Flat-head screw with internal Torx, stainless steel

A2 2B





Type	Dimension mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
7380T M6x20 A2	M6x20	Torx	100	0.580	**3164972**
7380T M6x35 A2	M6x35	Torx	100	0.910	**3164976**

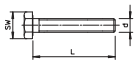
Flat head screw with TX 30, according to ISO 7380-1, suitable for fastening cable routes on brackets as well as for the mounting of barrier strips. The rounded head shape provides optimum cable protection. The Torx drive offers optimum force transmission in the screw movement.

Hexagonal bolts

Hexagonal bolt DIN 933

St ZL





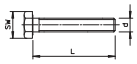
Type	Thread	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
SKS M6x16 ZL	M6	M6x16	16	6	10	100	0.530	**3156706**
SKS M6x20 ZL	M6	M6x20	20	6	10	100	0.600	**3156708**
SKS M6x30 ZL	M6	M6x30	30	6	10	100	0.780	**3156710**
SKS M6x40 ZL	M6	M6x40	40	6	10	100	0.950	**3156712**
SKS M6x55 ZL	M6	M6x55	55	6	10	100	1.230	**3156715**
SKS M6x60 ZL	M6	M6x60	60	6	10	100	1.310	**3156716**
SKS M8x20 ZL	M8	M8x20	20	8	13	100	1.190	**3156728**
SKS M8x30 ZL	M8	M8x30	30	8	13	100	1.510	**3156730**
SKS M8x40 ZL	M8	M8x40	40	8	13	100	1.820	**3156732**
SKS M8x50 ZL	M8	M8x50	50	8	13	100	2.150	**3156734**
SKS M8x60 ZL	M8	M8x60	60	8	13	100	2.440	**3156736**
SKS M8x80 ZL	M8	M8x80	80	8	13	100	3.080	**3156738**
SKS M10x20 ZL	M10	M10x20	20	10	17	50	2.180	**3156758**
SKS M10x30 ZL	M10	M10x30	30	10	17	50	2.660	**3156760**
SKS M10x40 ZL	M10	M10x40	40	10	17	50	3.200	**3156762**
SKS M10x50 ZL	M10	M10x50	50	10	17	50	3.700	**3156764**
SKS M10x60 ZL	M10	M10x60	60	10	17	50	4.160	**3156766**
SKS M10x70 ZL	M10	M10x70	70	10	17	50	4.640	**3156768**
SKS M10x80 ZL	M10	M10x80	80	10	17	50	5.000	**3156770**
SKS M10x100 ZL	M10	M10x100	100	10	17	50	6.180	**3156774**
SKS M12x30 ZL	M12	M12x30	30	12	19	50	3.880	**3156788**
SKS M12x40 ZL	M12	M12x40	40	12	19	50	4.600	**3156790**
SKS M12x50 ZL	M12	M12x50	50	12	19	50	5.340	**3156792**
SKS M12x60 ZL	M12	M12x60	60	12	19	50	6.080	**3156794**
SKS M12x80 ZL	M12	M12x80	80	12	19	50	7.520	**3156796**
SKS M12x100 ZL	M12	M12x100	100	12	19	50	8.940	**3156799**

Hexagonal bolt according to DIN 933 with metric thread. Resistance grade at least 8.8.

Hexagonal M6

St F





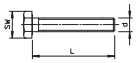
Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 6x12 F	M6x12	12	6	10	5.6	100	0.810	**3156494**
SKS 6x20 F	M6x20	20	6	10	5.6	100	0.917	**3156516**
SKS 6x30 F	M6x30	30	6	10	5.6	100	1.097	**3156524**

Hexagonal bolt for universal fastening of construction components. With hexagonal nut and 2 washers.

St F

Hexagonal bolt M8

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 8x16 F	M 8 x 16	16	8	13	8.8	50	1.691	**3158624**
SKS 8x20 F	M 8 x 20	20	8	13	8.8	50	1.837	**3158632**
SKS 8x30 F	M 8 x 30	30	8	13	5.6	50	2.144	**3158640**





Hexagonal bolt for universal fastening of construction components. With hexagonal nut and 2 washers.

St F

Hexagonal bolt M10

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x25 F	M 10 x 25	25	10	17	8.8	50	3.719	**3160734**
SKS 10x30 F	M 10 x 30	30	10	17	8.8	50	3.995	**3160742**
SKS 10x40 F	M 10 x 40	40	10	17	8.8	50	4.422	**3160750**
SKS 10x60 F	M 10 x 60	60	10	17	8.8	20	6.000	**6408516**
SKS 10x80 F	M 10 x 80	80	10	17	8.8	20	6.900	**6418250**
SKS 10x90 F	M 10 x 90	90	10	17	8.8	20	8.950	**6418252**
SKS 10x120 F	M 10 x 120	120	10	17	8.8	20	8.294	**3160793**



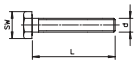


Hexagonal bolt for universal fastening of construction components. With hexagonal nut and 2 washers.

St G

Hexagonal bolt for trapezoidal fastening TPB 100

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x110 G	M 10 x 110	110	10	17	5.6	20	9.500	**6418244**



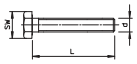


Hexagonal bolt for mounting trapezoidal fastening TPB 100, with shaft and thread, including hexagonal nut and 2 washers.

St F

Hexagonal bolt M12

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x30 F	M 12 x 30	30	12	19	8.8	20	5.990	**3163091**
SKS 12x40 F	M 12 x 40	40	12	19	8.8	25	7.800	**3163113**
SKS 12x60 F	M 12 x 60	60	12	19	8.8	25	8.057	**3163156**



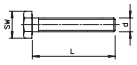


Hexagonal bolt for universal fastening of construction components. With hexagonal nut and 2 washers.

St F

Hexagonal bolt M12

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x80 F	M 12 x 80	80	12	19	8.8	20	10.000	**6418287**
SKS 12x100 F	M 12 x 100	100	12	19	8.8	20	10.981	**6418295**
SKS 12x110 F	M 12 x 110	110	12	19	8.8	20	14.500	**6418317**
SKS 12x130 F	M 12 x 130	130	12	19	8.8	20	13.101	**6408478**





Hexagonal bolt for universal fastening of construction components. With hexagonal nut and 2 washers.

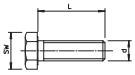
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Hexagonal bolts

Hexagonal bolt M12

St F





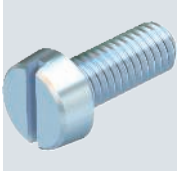
Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x40 G F	M 12 x 40	40	12	19	8.8	10	9.800	**3164020**

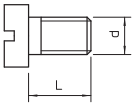
Hexagonal bolt for universal fastening of construction components and for the fastening of wall and support brackets on adapter plates. With hexagonal nut and 2 washers.

Cylinder head bolts

Cylinder head bolt

St G





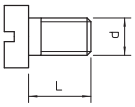
Type	Thread	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
341 M6x10 G	M6	10	100	0.349	**3153096**
341 M6x16 G	M6	16	100	0.479	**3153150**
341 M6x20 G	M6	20	100	0.569	**3153207**

Cylinder head bolt according to ISO 1207 with metric thread

Cylinder head bolt A2

A2





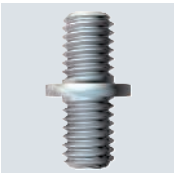
Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
341 M6x16 A2	16	100	0.485	**3168905**

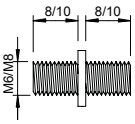
Cylinder head bolt according to ISO 1207 with metric thread

Double nipple

Double nipple

St G





Type	Thread	Thread length mm	Pack Piece	Weight kg/100 pc.	Item no.
3100 M6 G	M6	8	100	0.358	**3131068**

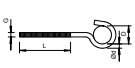
Double nipple with metric thread.

Ceiling hooks

Ceiling hook

St G





Type	Dim. L mm	Dim. D mm	Dim. d Ø mm	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
867 M5X125 G	90	16	4.3	M5	0.4	100	1.730	**3470148**
867 M6X 95 G	55	16	5.2	M6	0.8	100	2.095	**3470210**
867 M6X125 G	85	16	5.2	M6	0.8	100	2.760	**3470237**

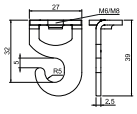
Ceiling hook with long metric thread.

St G

TS ceiling hook

Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2989 M6 G	M6	1	50	2.540	**3460762**

TS ceiling hook with metric thread.



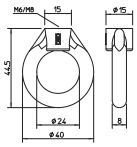


Zn G

Suspension eyelet

Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2085 M6 G	M6	1.1	50	3.900	**3464067**
2085 M8 G	M8	1.1	50	3.700	**3464083**

Suspension eyelet with metric thread.



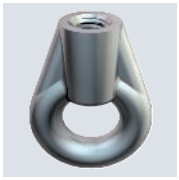


Zn G

Ring eyelet

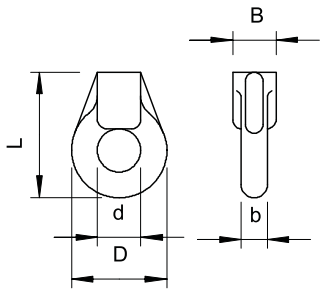
Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2084 M6 G	M6	1.15	100	2.200	**3463567**
2084 M8 G	M8	1.15	100	2.100	**3463583**
2084 K M6	M6	1.15	100	1.500	**3463060**

Ring eyelet with metric internal thread.



Type	Thread	Dim. L mm	Dim. d Ø mm	Dimension BØ mm	Break load kN
2084 M6 G	M6	37.8	15	12	1.15
2084 M8 G	M8	37.8	15	12	1.15

Dimensions

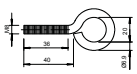


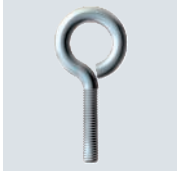
St G

Frame eyelet

Type	Thread	Length mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
869 M8X40 G	M8	70	2	25	3.540	**3472086**

Frame eyelet M8 x 40 mm.





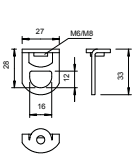
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Eyelets

TS suspension eyelet

St G



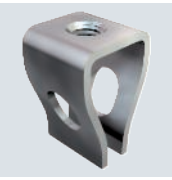


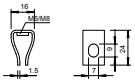
Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2990 M6 G	M6	1.6	50	2.320	**3462862**

Suspension eyelet with interior thread.

Rabitz coupler

St G





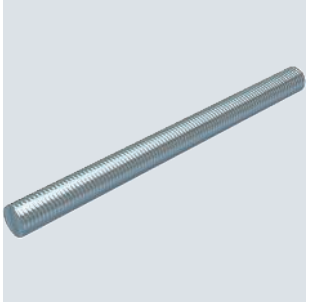
Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2083 M6 G	M6	1.7	100	1.090	**3462064**
2083 M8 G	M8	1.7	100	1.090	**3462080**

Rabitz coupler with metric thread.

Threaded rods

Threaded rod

St G





Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M G	M6	6	1000	8.04	10	18.300	**3141047**
TR M8 1M G	M8	8	1000	14.6	10	30.000	**3141128**
TR M10 1M G	M10	10	1000	23.2	10	49.000	**3141209**
TR M12 1M G	M12	12	1000	33.7	10	62.000	**3141306**
TR M6 2M G	M6	6	2000	8.04	10	36.600	**3141048**
TR M8 2M G	M8	8	2000	14.6	10	60.000	**3141136**
TR M10 2M G	M10	10	2000	23.2	10	98.000	**3141140**
TR M12 2M G	M12	12	2000	33.7	10	140.000	**3141144**

Threaded rod to DIN 976.

Threaded rod

A2 2B





Type	Thread	Dim. d mm	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
TR M6 1M A2	M6	6	1000	19.78	10	18.300	**3141327**
TR M8 1M A2	M8	8	1000	35.17	10	30.000	**3141310**
TR M10 1M A2	M10	10	1000	54.95	10	49.000	**3141312**
TR M12 1M A2	M12	12	1000	79.13	10	70.000	**3141314**
TR M6 2M A2	M6	6	2000	19.78	10	36.600	**3141328**
TR M8 2M A2	M8	8	2000	35.17	10	60.000	**3141330**
TR M10 2M A2	M10	10	2000	54.95	10	98.000	**3141339**
TR M12 2M A2	M12	12	2000	79.13	10	140.000	**3141316**

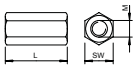
Threaded rod to DIN 976.

St G

Connection sleeve

Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 G	M8	24	13	50	1.880	**6410081**
CSTR M10 G	M10	30	17	50	4.150	**6410103**
CSTR M12 G	M12	40	19	25	7.000	**6410111**

Connection sleeve with continuous internal thread.



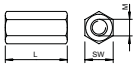


A2 2B

Connection sleeve

Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 A2	M8	24	13	50	1.880	**6410154**
CSTR M10 A2	M10	30	17	50	4.150	**6410162**

Connection sleeve with continuous internal thread.



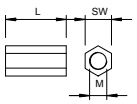


Zn G

Spacer sleeve

Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
965 M6X20 G	M6	20	10	100	0.900	**3415031**
965 M6X25 G	M6	25	10	100	0.960	**3415066**
965 M6X40 G	M6	40	10	100	1.500	**3415104**
965 M8X20 G	M8	20	13	100	1.200	**3415147**
965 M8X30 G	M8	30	13	100	1.800	**3415163**

Continuous internal thread.



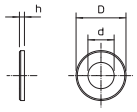


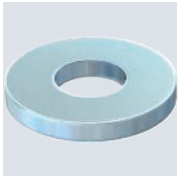
St G

Washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M4 D09 G	M4	4.3	9	0.8	100	0.031	**3402045**
WS M6 D12 G	M6	6.4	12	1.6	100	0.114	**3402061**
WS M8 D16 G	M8	8.4	16	1.6	100	0.156	**3402088**
WS M10 D20 G	M10	10.5	20	2	100	0.408	**3402096**
WS M12 D24 G	M12	13	24	2.5	100	0.570	**3402126**

Washer according to DIN 125, shape A, for universal use.



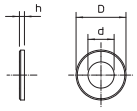


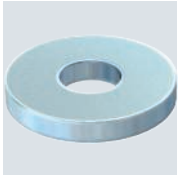
St G

Washer ISO 7093

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D28 G	M6	6.5	28	2.5	100	1.104	**3402207**
WS M8 D28 G	M8	8.5	28	2.5	100	1.100	**3402215**
WS M10 D28 G	M10	11	28	2.5	100	1.020	**3402223**

Washer of large outer diameter for universal use.



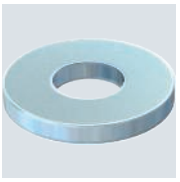


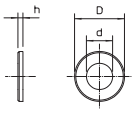
Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Washers

Washer

St F



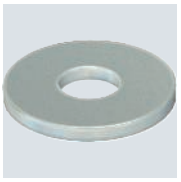


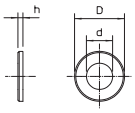
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
966 M6 F	M6	6.6	12	1.6	100	0.098	**3402444**
966 M8 F	M8	9	16	1.6	100	0.177	**3402452**
966 M10 F	M10	11	20	2	100	0.327	**3402460**
966 M12 F	M12	13.5	24	2.5	100	0.620	**3402479**

Washer for universal use.

Washer

A2 2B



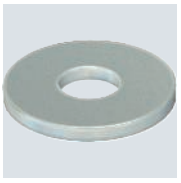


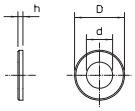
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A2	M6	6.4	12	1.6	100	0.114	**3402304**
WS M8 D16 A2	M8	8.4	16	1.6	100	0.214	**3402312**
WS M10 D20 A2	M10	10.5	20	2	100	0.408	**3402320**
WS M12 D24 A2	M12	13	24	2.5	100	0.627	**3402339**

Washer according to DIN 125, shape A, for universal use.

Washer

A4 2B



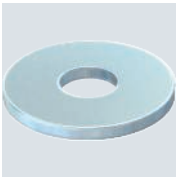


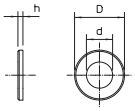
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A4	M6	6.4	12	1.6	100	0.114	**3402306**
WS M8 D16 A4	M8	8.4	16	1.6	100	0.214	**3402314**
WS M10 D20 A4	M10	10.5	20	2	100	0.408	**3402322**
WS M12 D24 A4	M12	13	24	2.5	100	0.627	**3402345**

Washer according to DIN 125, shape A, for universal use.

Fender washer

St G



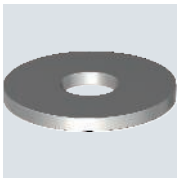


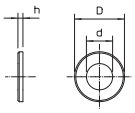
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M4 G15 G	M4	4.3	15	1.2	100	0.156	**3403025**
WS M5 G20 G	M5	5.3	20	1.2	100	0.207	**3403041**
WS M6 G25 G	M6	6.4	25	1.2	100	0.428	**3403084**
WS M6 G20 G	M6	6.4	20	1.25	100	0.236	**3403076**
WS M8 G20 G	M8	8.4	20	1.25	100	0.227	**3403122**
WS M8 G25 G	M8	8.4	25	1.2	100	0.408	**3403130**
WS M10 G30 G	M10	10.5	30	1.5	100	0.598	**3403165**

Washer of particularly large outer diameter.

Fender washer

A2 2B





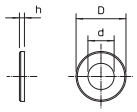
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M8 D25 A2	M8	8.4	25	1.5	100	0.370	**3403135**

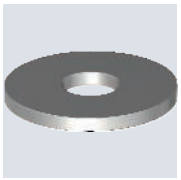
Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

A4 2B

Fender washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M8 D20 A4	M8	8.4	20	1.5	100	0.240	**3403127**
WS M8 D25 A4	M8	8.4	25	1.2	100	0.370	**3403137**
WS M8 D40 A4	M8	8.4	40	1.5	100	0.370	**3403147**
WS M10 D30 A4	M10	10.5	30	1.5	100	0.592	**3403163**
WS M10 D40 A4	M10	10.5	40	1.5	100	0.592	**3403177**



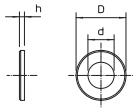


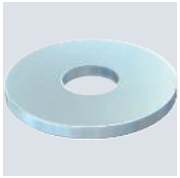
Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

St F

Large washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN440 7 F	M6	6.6	22	2	100	0.535	**6408702**
DIN440 9 F	M8	9	28	3	100	1.057	**6408710**
DIN440 11 F	M10	11	34	3	100	1.852	**6408729**
DIN440 14 F	M12	13.5	44	4	50	4.736	**6408737**





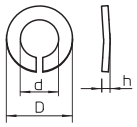
Washer of particularly large outer diameter.

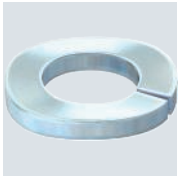
Lock washers

St G

Lock washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
LWS M6 G	M6	6.3	11.8	2.1	100	0.070	**3405060**
LWS M8 G	M8	8.3	14.8	2.6	100	0.130	**3405087**
LWS M10 G	M10	10.5	18.1	3	100	0.210	**3405109**
LWS M12 G	M12	12.5	21.1	3.5	100	0.320	**3405125**



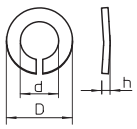


Lock washer according to DIN 128, shape A.

A4 2B

Spring washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
LWS M6 A4	M6	6.3	11.8	2.1	100	0.070	**3405062**
LWS M8 A4	M8	8.3	14.8	2.6	100	0.130	**3405089**
LWS M10 A4	M10	10.5	18.1	3	100	0.210	**3405111**
LWS M12 A4	M12	12.5	21.1	3.5	100	0.320	**3405127**



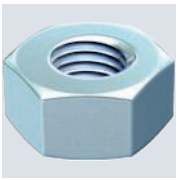


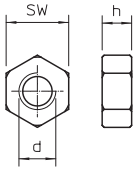
Lock washer according to DIN 128, shape A.

Industrieinstallation 2023 PL / en / 2023/10/20 15:22:47 15:22:47 (LLExport_03667) / 2023/10/20 15:23:13 15:23:13

Hexagonal nut DIN 934

St G



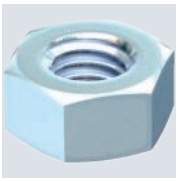


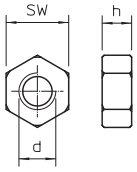
Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M4 G	M4	7	3.2	4	100	0.081	**3400042**
HN M5 G	M5	8	4.7	5	100	0.123	**3400050**
HN M6 G	M6	10	5.2	6	100	0.221	**3400069**
HN M8 G	M8	13	6.8	8	100	0.500	**3400085**
HN M10 G	M10	17	8.4	10	100	1.014	**3400107**
HN M12 G	M12	19	10.8	12	100	1.730	**3400123**

Hexagonal nut to DIN 934 with metric thread.

Hexagonal nut ISO 4032

St F



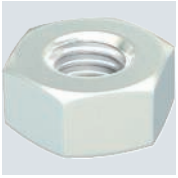


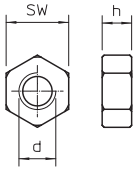
Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN934 M6 F	M6	10	5.2	6	100	0.250	**3400344**
DIN934 M8 F	M8	13	6.8	8	100	0.477	**3400352**
DIN934 M10 F	M10	17	8.4	10	100	1.061	**3400360**
DIN934 M12 F	M12	19	10.8	12	100	1.540	**3400379**

Hexagonal nut to DIN 934 with metric thread.

Hexagonal nut DIN 934

A2 2B



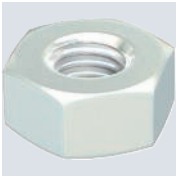


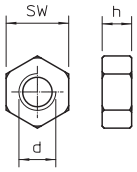
Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M6 A2	M6	10	5.2	6	100	0.215	**3397068**
HN M8 A2	M8	13	6.8	8	100	0.520	**3397084**
HN M10 A2	M10	17	8.4	10	100	1.043	**3397106**

Hexagonal nut to DIN 934 with metric thread.

Hexagonal nut DIN 934

A4 2B



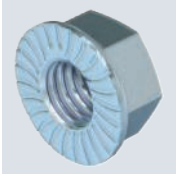


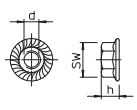
Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M6 A4	M6	10	5.2	6	100	0.250	**3400173**
HN M10 A4	M10	17	8.4	10	100	1.084	**3400177**
HN M12 A4	M12	19	10.8	12	100	1.730	**3397145**

Hexagonal nut to DIN 934 with metric thread.

Flange nut

St G





Type	Dim. d mm	Dim. h mm	SW mm	Resist-ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 G	6	6	10	8	100	0.315	**6408958**

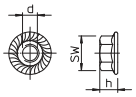
Combination nut with washer based on EN 1661.

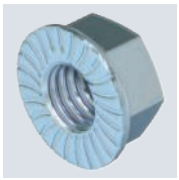
St F

Flange nut

Type	Dim. d mm	Dim. h mm	SW mm	Resist-ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 F	6	6	10	8	100	0.315	**6408962**

Combination nut with washer based on EN 1661.



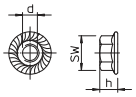


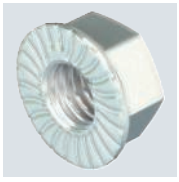
A2 2B

Combination nut A2

Type	Dim. d mm	Dim. h mm	SW mm	Resist-ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 A2	6	6	10	A2-70	100	0.315	**6408966**

Nut with pressed washer.



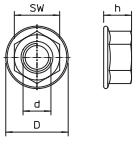


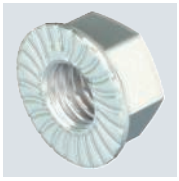
A2 2B

Combination nut DIN 6923

Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
KM M10 A2	M10	17	10	21.8	50	1.320	**3156122**

Combination nut with pressed washer in accordance with EN 1661.



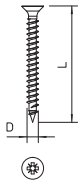


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Sprint screw, with Philips slot

St G





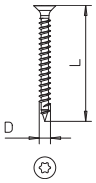
Type	Dim. L mm	Dim. D mm	Head Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
4759 3.0x15	15	3	5.6	200	0.060	**3192055**
4759 3.0x20	20	3	5.6	200	0.070	**3192059**
4759 3.0x25	25	3	5.6	200	0.080	**3192063**
4759 3.5x15	15	3.5	6.5	200	0.060	**3192091**
4759 3.5x20	20	3.5	6.5	200	0.080	**3192105**
4759 3.5x25	25	3.5	6.5	200	0.105	**3192113**
4759 3.5x30	30	3.5	6.5	200	0.120	**3192121**
4759 3.5x35	35	3.5	6.5	200	0.140	**3192148**
4759 3.5x40	40	3.5	6.5	200	0.160	**3192156**
4759 3.5x45	45	3.5	6.5	200	0.180	**3192164**
4759 3.5x50	50	3.5	6.5	200	0.205	**3192172**
4759 4.0x15	15	4	7.5	200	0.090	**3192199**
4759 4.0x20	20	4	7.5	200	0.120	**3192202**
4759 4.0x25	25	4	7.5	200	0.153	**3192210**
4759 4.0x30	30	4	7.5	200	0.167	**3192229**
4759 4.0x35	35	4	7.5	200	0.192	**3192237**
4759 4.0x40	40	4	7.5	200	0.210	**3192245**
4759 4.0x45	45	4	7.5	200	0.236	**3192253**
4759 4.0x50	50	4	7.5	200	0.262	**3192261**
4759 4.5x30	30	4.5	8.3	200	0.237	**3192334**
4759 4.5x35	35	4.5	8.3	200	0.270	**3192342**
4759 4.5x40	40	4.5	8.3	200	0.300	**3192350**
4759 4.5x45	45	4.5	8.3	200	0.320	**3192369**
4759 4.5x50	50	4.5	8.3	200	0.363	**3192377**
4759 5.0x30	30	5	9.2	200	0.304	**3192415**
4759 5.0x35	35	5	9.2	200	0.356	**3192423**
4759 5.0x40	40	5	9.2	200	0.380	**3192431**
4759 5.0x45	45	5	9.2	200	0.430	**3192458**
4759 5.0x50	50	5	9.2	200	0.480	**3192466**
4759 6.0x40	40	6	11	200	0.570	**3192628**
4759 6.0x50	50	6	11	200	0.680	**3192636**
4759 6.0x60	60	6	11	200	0.790	**3192644**
4759 3.0x30	30	3	5.6	200	0.110	**3192067**

Hardened steel, electrogalvanised and Hostaflon-coated. Countersunk head with Phillips head (Pozidriv size 2 except Ø 6 mm Pozidriv size 3).
The use of Sprint screws leads to considerably reduced screw-in times compared with standard screws. This noticeable benefit is achieved by the point with the first thread, which leads onto the double thread beyond.
Areas of use: wood, chipboard, Rigips panels, plastic anchors.

Sprint screw, with Torx

St G





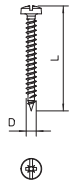
Type	Dim. L mm	Dim. D mm	Head Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
4759T 4.0x45	45	4	7.5	200	0.244	**3198249**

Hardened steel, electrogalvanised and Hostaflon-coated. Countersunk head with T bit (six lobe head), sizes Ø 3 mm T10, Ø 3.5 mm T15, Ø 4 and 4.5 mm T20, Ø 5 mm T25.
The use of Sprint screws leads to considerably reduced screw-in times compared with standard screws. This noticeable advantage comes from the point with the first thread, which leads on to the double thread beyond.
Areas of use: wood, chipboard, Rigips panels, plastic anchors.

St G

Sprint screw, with Philips screw

Type	Dim. L mm	Dim. D mm	Head Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
4758 3.5x20	20	3.5	6.5	200	0.090	**3195015**
4758 3.5x30	30	3.5	6.5	200	0.163	**3195031**
4758 3.5x25	25	3.5	6.5	200	0.120	**3195023**
4758 3.5x35	35	3.5	6.5	200	0.170	**3195058**
4758 3.5x45	45	3.5	6.5	200	0.220	**3195074**
4758 3.5x50	50	3.5	6.5	200	0.240	**3195082**
4758 4.0x15	15	4	7.5	200	0.100	**3195201**
4758 4.0x20	20	4	7.5	200	0.140	**3195228**
4758 4.0x25	25	4	7.5	200	0.177	**3195236**
4758 4.0x30	30	4	7.5	200	0.220	**3195244**
4758 4.0x35	35	4	7.5	200	0.250	**3195252**
4758 4.0x45	45	4	7.5	200	0.280	**3195279**
4758 4.0x50	50	4	7.5	200	0.310	**3195287**
4758 4.5x25	25	4.5	8.2	200	0.237	**3195422**
4758 4.5x30	30	4.5	8.2	200	0.290	**3195430**
4758 4.5x35	35	4.5	8.2	200	0.300	**3195449**
4758 4.5x40	40	4.5	8.2	200	0.310	**3195457**
4758 4.5x45	45	4.5	8.2	200	0.350	**3195465**
4758 4.5x50	50	4.5	8.2	200	0.393	**3195473**
4758 5.0x30	30	5	9.5	200	0.376	**3195635**
4758 5.0x35	35	5	9.5	200	0.415	**3195643**
4758 5.0x45	45	5	9.5	200	0.493	**3195678**
4758 5.0x50	50	5	9.5	200	0.533	**3195686**
4758 5.0x60	60	5	9.5	200	0.585	**3195694**
4758 6.0x60	60	6	12	200	0.960	**3195945**





Hardened steel, electrogalvanised and Hostaflon-coated. Pan head with combined Phillips and slotted head (Pozidriv size 2 except Ø 6 mm Pozidriv size 3).
The use of Sprint screws leads to considerably reduced screw-in times compared with standard screws. This noticeable advantage comes from the point with the first thread, which leads on to the double thread beyond.
Areas of use: wood, chipboard, Rigips panels, plastic anchors.

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Hook nail

St BK





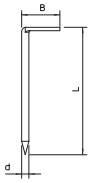
Type	Dim. L mm	Dim. d mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
1101 3x40	40	3	18	250	0.290	**3341046**
1101 3x50	50	3	18	250	0.344	**3341054**
1101 3x60	60	3	18	250	0.404	**3341062**
1101 3x70	70	3	18	250	0.466	**3341070**
1101 3.4x50	50	3.4	18	250	0.451	**3341496**
1101 3.4x60	60	3.4	18	250	0.548	**3341607**
1101 3.4x80	80	3.4	18	250	0.682	**3341801**
1101 3.4x90	90	3.4	18	250	0.757	**3341909**
1101 3.4x100	100	3.4	18	250	0.820	**3341992**

Steel, with an 18 mm hook on the head.

Hook nail

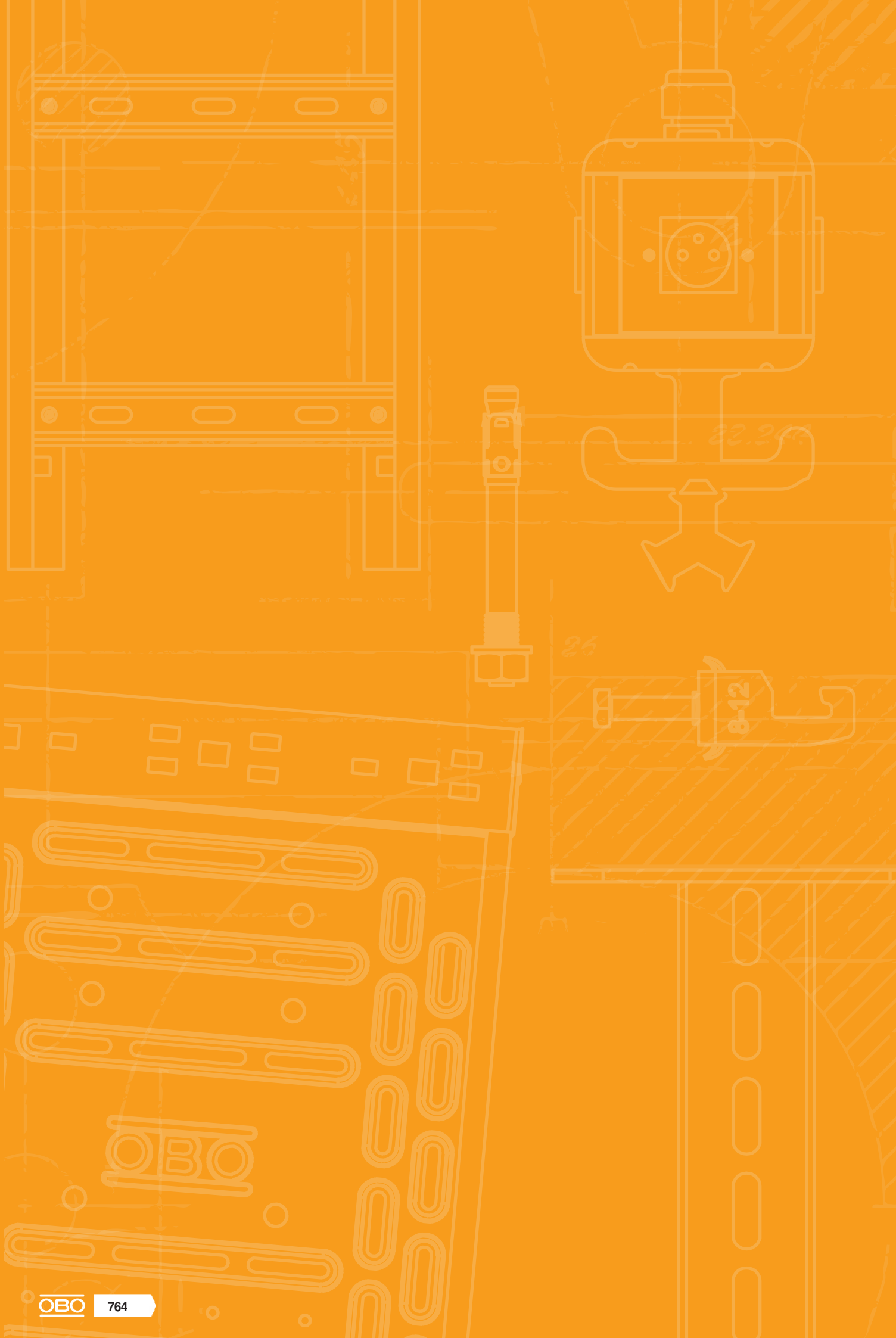
St G





Type	Dim. L mm	Dim. d mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
1101 Z 40 G	40	3	18	250	0.288	**3342042**
1101 Z 50 G	50	3	18	250	0.360	**3342050**
1101 Z 60 G	60	3	18	250	0.404	**3342069**
1101 Z 70 G	70	3	18	250	0.474	**3342077**
1101 Z3.4x50 G	50	3.4	18	250	0.464	**3342506**
1101 Z3.4x60 G	60	3.4	18	250	0.548	**3342603**
1101 Z3.4x70 G	70	3.4	18	250	0.600	**3342700**
1101 Z3.4x80 G	80	3.4	18	250	0.674	**3342808**

Steel, galvanised, with 18 mm hook on the head.


OBO

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Test marks

	American Bureau of Shipping, USA
	AENOR, Producto Certificado, Spain
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland
	Lightning current-tested
	Lightning current-tested, Class H (100 kA)
	CEBEC, Belgium
	Canadian Standards Association, Canada
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark
DIBt	Deutsches Institut für Bautechnik Berlin, Germany
	Det Norske Veritas
	ENEC Austria
	ATEX certificate for explosive areas
	ELEKTROTECHNICKÝ ZKUŠEBNÌ ÚSTAV, Czech Republic
FI	FIMKO, Finland
	Forschungs- und Materialprüfungsanstalt, Germany
	Russia, GOST The State Committee for Standards
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany
	Halogen-free; without chlorine, fluorine and bromine
	INMETRO, Brazil
KEMA KEUR	KEMA-KEUR, Netherlands
	Indication of metric products
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary
	NEMKO, Norway
NF	AFNOR Quality symbol of the French standardisation institute

	Underwriters Laboratories Inc., USA + CSA, Canada
	Österreichischer Verband für Elektrotechnik, Austria
	INSTITUTO ITALIANO DEL MARCHO DI QUALITÁ, Italy
	RINA 1861, Ship Classification, Certification and Services
	Underwriters Laboratories Inc., USA
	SEMKO An Inchcape Testing Services Company, Sweden
	Eidgenössisches Starkstrominspektorat, Switzerland
SABS APPROVED	South African Bureau of Standards
	Shock-tested, Bundesamt für Zivilschutz, Germany
	Sähkötarkastuskeskus Elinspektionscentralen Electrical Inspectorate, Finland
	Underwriters Laboratories Inc., USA
LISTED	Underwriters Laboratories Inc., USA
	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	German Association of Electricians, tested safety
5	5-year warranty

Pictogram explanation

Surfaces

FS	Strip galvanised
FSK	Strip galvanised/plastic-coated
DD	Strip galvanised zinc/aluminium, double dip
BK	Bright
2B	Bright, reworked
EL	Anodised
F	Hot-dip galvanised
G	Electrogalvanised
GK	Electrogalvanised/plastic-coated
GCL	Electrogalvanised, yellow-chromatised
GGP	Electrogalvanised, yellow passivated
GTP	Electrogalvanised, transparently passivated
GR	Primed
L	Painted
SG	Welding primed
FT	Hot-dip galvanised
FT SO	Hot-dip galvanised 85 µm
Cu	Copper-plated
N	Nickel-plated
ZD	Galvanised, Deltatone 500
ZDM	Galvanised, MAGNI 565
GA	Zinc-aluminium coated, Galfan
ZL	Zinc scale

Conformity symbol

CE	Communautés Européennes, EC declaration of conformity according to EC directives
RoHS conform	RoHS-conformant

Quality marks

	Halogen-free; without chlorine, fluorine and bromine
650°	Flame resistant 650 °C
750°	Flame resistant 750 °C
960°	Flame resistant 960 °C
UV resistant	UV-resistant

Specific product symbols

Ø 60	Diameter 60 mm
Ø 68	Diameter 68 mm
Type 3	Protection device to DIN EN 61643-11 or IEC 61643-11
LPZ 2→3	Transition from LPZ 2 to LPZ 3
AS	Acoustic signalling

Applications

FS	Remote signalling
AS	Acoustic signalling
ISDN	Integrated Service Digital Network, ISDN applications
DSL	Digital Subscriber Line, DSL applications
Analog TK	Analogue telecommunication
Cat 5	Category 5 TwisterPair
Cat 6_A	Channel Performance to American EIA/TIA standard
MSR	Measuring, controlling and regulating systems
TV	TV applications
SAT	SAT-TV applications
Mu	MultiBase base
	LifeControl
EX	Intrinsically safe protection device for potentially explosive areas
Class E_A	Channel Performance to ISO/IEC 11801
PoE	Power over Ethernet
230/ 400 V System	230/400 V system
IP 54	Protection rating IP 54
IP 65	Protection rating IP 65

Lightning protection classes

Type 1	Protection device to DIN EN 61643-11 or IEC 61643-11
Type 1+2	Combination protection device made of type 1 and type 2
Type 2	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection classes

Type 2+3	Protection device to DIN EN 61643-11 or IEC 61643-11
Type 3	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection zone

LPZ 0→1	Transition from LPZ 0 to LPZ 1
LPZ 0→2	Transition from LPZ 0 to LPZ 2
LPZ 0→3	Transition from LPZ 0 to LPZ 3
LPZ 1→2	Transition from LPZ 1 to LPZ 2
LPZ 1→3	Transition from LPZ 1 to LPZ 3
LPZ 2→3	Transition from LPZ 2 to LPZ 3

BSS maintenance of electrical function installation

	Fire-tested systems
	Escape route ceiling mounting with pressure clip
	OBO Grip, wall routing type
	OBO Grip, ceiling routing type
	Pressure clip for maintenance of electrical function, ceiling mounting

BSS anchor

	Fire protection anchor
	Fire protection bolt tie

BSS test marks/material class

E30	Maintenance of electrical function class E30
E90	Maintenance of electrical function class E90

Clamp clip base shapes

N	Clamp clip for C profile rail, slot width 11–12 mm
H	Clamp clip for C profile rail, slot width 16–17 mm
U	Clamp clip for C profile rail, slot width 18–22 mm

Diameter

Ø 60	Diameter 60 mm
Ø 68	Diameter 68 mm
Ø 70	Diameter 70 mm
Ø 74	Diameter 74 mm

Entries

4	4 cable entries
6	6 cable entries
7	7 cable entries
8	8 cable entries
9	9 cable entries
10	10 cable entries
12	12 cable entries
10	10 cable entries ECO
12	12 cable entries ECO
14	14 cable entries ECO
16	16 cable entries
18	18 cable entries ECO
24	24 cable entries

Gland thread

M	Thread metric
Pg	Thread Pg

Entry size

M20	M20 entry
M25	M25 entry
M32	M32 entry
M40	M40 entry

KTS side heights

	Cable tray, side height 35 mm
	Cable tray, side height 60 mm
	Cable tray, side height 85 mm
	Mesh cable tray, side height 35 mm
	Mesh cable tray, side height 55 mm

Materials

	Flat steel
	Angular steel
	U steel
	Round material

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Pictogram explanation

Nominal cross-section

1,5 mm²	Nominal cross-section 1.5 mm²
1,5-2,5 mm²	Nominal cross-section 1.5–2.5 mm²
2,5 mm²	Nominal cross-section 2.5 mm²
2,5-4 mm²	Nominal cross-section 2.5–4 mm²
4 mm²	Nominal cross-section 4 mm²
4-6 mm²	Nominal cross-section 4–6 mm²
6 mm²	Nominal cross-section 6 mm²
10 mm²	Nominal cross-section 10 mm²
16 mm²	Nominal cross-section 16 mm²

Nominal voltage

400 V	Nominal voltage 400 V
500 V	Nominal voltage 500 V
660 V	Nominal voltage 660 V

Polarity

3	3-pole
5	5-pole
7	7-pole
8	8-pole
10	10-pole
12	12-pole

Slot widths

7,5	Slot width 7.5 mm
11	Slot width 11 mm
11-12	Slot width 11–12 mm
12	Slot width 12 mm
15	Slot width 15 mm
16	Slot width 16 mm
16,5	Slot width 16.5 mm
16-17	Slot width 16–17 mm
17	Slot width 17 mm
18	Slot width 18 mm
22	Slot width 22 mm
35	Slot width 35 mm

Screw heads

	Philips screw
	Torx screw
	Phillips screw
	Pozidriv

Firing devices

	Bolt-firing tool
	Nail device

Protection rating

IP 20	Protection rating IP 20
IP 30	Protection rating IP 30
IP 31	Protection rating IP 31
IP 44	Protection rating IP 44
IP 54	Protection rating IP 54
IP 55	Protection rating IP 55
IP 65	Protection rating IP 65
IP 66	Protection rating IP 66
IP 67	Protection rating IP 67
IP 68	Protection rating IP 68

Metals

Alu	Aluminium
Alu/ St	Aluminium/steel
A2	Stainless steel, rustproof
A4	Stainless steel, rustproof
A5	Stainless steel, rustproof
Cu	Copper
CuZn 37	Brass
St	Steel
TG	Malleable iron
Zn	Die-cast zinc

Plastics

ABS/ AVA	Acrylonitrile butadiene styrene
UF	Duroplast, Aminoplast, type 131.5
MF	Duroplast, melamine resin, type 150
EVA	Ethylene vinyl acetate

Plastics

FA	Fibre-proof material DIN 28091
GFK	Fibreglass-reinforced plastic
NBR SBR	Rubber mixture
NBR	Nitrile rubber
PETR	Petrolatum
PA	Polyamide
PA/ GF	Polyamide, fibreglass reinforced
PBPT	Polybutylene terephthalate
PC	Polycarbonate
PE	Polyethylene
PP	Polypropylene
PP/ GF	Polypropylene, fibreglass reinforced
PS	Polystyrene
PVC	Polyvinylchloride
ZELL PC	Cellular polyethylene

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116 PG16	5179054	2043165	588
116 PG21	5179115	2043211	588
116 PG29	5179177	2043297	588
116 PG36	5179238	2043351	588
116 PG42	5179290	2043424	588
116 PG48	5179351	2043483	588
129 TB M16	6332243	2047812	630
129 TB M16 SW	6332335	2047936	630
129 TB M20	6332250	2047831	630
129 TB M20 SW	6332342	2047944	630
129 TB M25	6332267	2047839	630
129 TB M25 SW	6332373	2047952	630
129 TB M32	6332274	2047855	630
129 TB M32 SW	6332380	2047971	630
129 TB M40	6332281	2047863	630
129 TB M40 SW	6332397	2047979	630
129 TB M50	6332311	2047890	630
129 TB M50 SW	6332403	2047987	630
129 TB M63	6332328	2047898	630
129 TB M63 SW	6332434	2047995	630
129 TB PG11	6594108	2044511	631
129 TB PG13,5	6594115	2044513	631

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		/100 pc.	
129 TB PG16	6594122	2044516	631
129 TB PG21	6594139	2044521	631
129 TB PG29	6594146	2044529	631
129 TB PG36	6594153	2044536	631
129 TB PG42	6594160	2044542	631
129 TB PG48	6594177	2044548	631
129 TB PG9	6594092	2044509	631
157 MS PG21	5158059	2013215	602
157 MS PG29	5158110	2013290	602
159 MS PG13.5	5181996	2046121	601
159 MS PG16	5182054	2046164	601
162 MS M12	6600793	2083706	600
162 MS M25	5517818	2083720	600
162 MS PG 7	6600809	2082620	600
162 MS PG11	5187578	2082500	600
163 MS M20	5481874	2083639	601
167 R MS M20-16	5475514	2089521	604
167 R MS M25-20	5475637	2089556	604
167 R MS M32-20	5475699	2089564	604
167 R MS M50-40	5476474	2089610	604
168 MS M20	5472810	2090546	603
168 MS M40	5473411	2090570	603
168 MS PG 9	5193999	2090090	604
168 MS PG11	5194057	2090112	604
168 MS PG13	5194118	2090139	604
168 MS PG16	5194170	2090163	604
169 MS M12	5474135	2091607	603
169 MS M16	5931690	2091615	603
169 MS M20	5931751	2091623	603
169 MS M25	5931812	2091631	603
169 MS M32	5931874	2091658	603
169 MS M40	5474197	2091666	603
169 MS M50	5474791	2091674	603
169 MS M63	5474852	2091682	603
169 MS PG 7	5194538	2091070	603
169 MS PG 9	5194590	2091097	603
169 MS PG11	5194651	2091119	603
169 MS PG13.5	5194712	2091135	603
169 MS PG16	5194774	2091151	603
169 MS PG21	5194835	2091216	603
169 MS PG29	5194897	2091291	603
169 MS PG36	5194958	2091364	603
169 MS PG42	5195016	2091429	603
169 MS PG48	5195078	2091488	603
171 PG 9	5192190	2088819	590
171 PG 9	5192190	2088819	605
171 PG11	5192251	2088827	590
171 PG11	5192251	2088827	605
171 PG13.5	5192312	2088835	590
171 PG13.5	5192312	2088835	605
171 PG16	5192374	2088843	590
171 PG16	5192374	2088843	605
171 PG21	5192435	2088851	590
171 PG21	5192435	2088851	605
1973 20-40 LGR	5640035	2148862	659
1973 3-13 LGR	5947899	2148803	659
1973 8-28 LGR	5877691	2148846	659
1974 16-23	5742999	2197804	659
1974 22-30	5742937	2197812	659
1974 2X12-25	5742579	2197863	659
1974 2X4-12	5742630	2197855	659
1996 40	5705796	2222833	674
1996 50	5705734	2222841	674
1996 60	5707837	2222868	674
1996 70	5509837	2222876	674
2005 18 RW	5215059	2225379	678
2006 25 RW	5215172	2225417	678
2007 25 RW	5215356	2225514	679
2007 25 SW	5336372	2232146	679

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2008 25 RW	5215530	2225611	680
2008 25 SW	5336310	2232170	681
2008 35 LGR	5217992	2227622	680
2009 25 LGR	5218173	2227711	681
2009 25 SW	5336198	2232219	682
2009 35 LGR	5218234	2227738	681
2009 35 LGR SP	5607694	2227762	681
2009 45 LGR SP	5607878	2227797	681
2010 25 SW	5336136	2232235	682
2012 35 SW	5335955	2232316	683
2025 18 LGR	5219552	2228610	675
2025 18 RW	5496519	2228686	675
2025 25 LGR	5219613	2228629	675
2025 25 RW	5828556	2228688	675
2026 18 LGR	5219675	2228718	676
2026 18 RW	5496397	2228420	676
2026 25 LGR	5219736	2228726	676
2026 25 LGR SP	5608110	2228432	676
2026 25 RW	5496458	2228422	676
2026 35 LGR	5219798	2228734	676
2026 35 LGR SP	5608172	2228440	676
2026 45 LGR	5608837	2228750	676
2027 25 LGR	5219859	2228823	677
2027 30 LGR	5219910	2228831	677
2027 40 LGR	5219972	2228858	677
2028 40 LGR	5220039	2228904	677
2031 10	6773572	2205380	662
2031 10 SP	6773589	2205384	662
		/100 pc.	
2031 20	5651635	2205404	662
2031 40	5651666	2205416	662
2031 M 15 A2	5809395	2207080	689
2031 M 15 FS	5863953	2207028	689
2031 M 30 A2	5809401	2207088	689
2031 M 30 FS	5798798	2207036	689
2031 M 70 A2	5809449	2207112	690
2031 M 70 FS	5022497	2207060	690
2032	5211273	2205017	663
2032 SD	5210917	2204800	663
2032 SP	5597674	2204975	663
2033	5211334	2205033	663
2033 D 15x3 G	5044970	2205097	691
2033 M A2	5036616	2204000	691
2033 SD	5210979	2204819	664
2033 SD SP	5597551	2204878	664
2033 SP	5597735	2204983	663
2033 STD	5693253	2204541	664
2034	5211396	2205041	663
2034 M A2	5210672	2204010	690
2034 SP	5597797	2204991	663
2035 M A2	6624249	2204020	690
2037 12-20 LGR	5221418	2250209	665
2037 16-24 LGR	5221470	2250241	665
2037 18-30 LGR	5221531	2250306	665
2037 27-43 LGR	5221593	2250438	665
2037 3-7 LGR	5221296	2250071	665
2037 6-13 LGR	5221357	2250136	665
2050 5-25 LGR	5222132	2254026	683
2051 8-36 LGR	5222194	2254034	684
2056 B 35 FT	5081258	1194054	742
2056 B 40 FT	5081197	1194046	742
2056 E 31 FT	5500353	1174606	742
2056 E 37 FT	5500414	1174614	742
2056 E 44 FT	5500476	1174630	742
2058 M2 34 DD	5441670	1199749	743
2058FW M 12 A2	5514091	1197134	743

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2058FW M 16 A2	5514152	1197177	743
2058FW M 28 DD	5442219	1199870	743
2058UW 100 LGR	6636303	1198100	743
2058UW 12 LGR	6636129	1198012	743
2058UW 16 LGR	6636150	1198016	743
2058UW 22 LGR	6636167	1198022	743
2058UW 28 LGR	6636174	1198028	743
2058UW 34 LGR	6636181	1198034	743
2058UW 40 LGR	6636198	1198040	743
2058UW 46 LGR	6636204	1198046	743
2058UW 52 LGR	6636211	1198052	743
2058UW 58 LGR	6636228	1198058	743
2058UW 64 LGR	6636235	1198064	743
2058UW 70 LGR	6636242	1198070	743
2058UW 76 LGR	6636273	1198076	743
2058UW 82 LGR	6636280	1198082	743
2058UW 90 LGR	6636297	1198090	743
		price/100	
2069 15 1.5 GTP	5044833	1115421	464
2069 15 1.5 GTPL	5044895	1115456	464
2069 15 2.2 GTP	5045076	1115553	464
2069 15 2.2 GTPL	5045199	1115596	464
2069 1M FS	5045557	1115677	463
2069 2M FS	5045311	1115626	463
2069 2M GTP	5045434	1115650	463
2069 2M GTPL	5045496	1115669	463
2069 L 2M FS	5045977	1115804	464
		/100 pc.	
2069 X06 FS	6614257	1115876	476
2069 X10 FS	6614264	1115879	476
2069 X16 FS	6614271	1115882	476
2069 X25 FS	6614288	1115887	476
2083 M6 G	5306498	3462064	754
2083 M8 G	5306559	3462080	754
2084 K M6	5307150	3463060	328
2084 K M6	5307150	3463060	753
2084 M6 G	5307211	3463567	753
2084 M8 G	5307273	3463583	753
2085 M6 G	5307334	3464067	753
2085 M8 G	5307396	3464083	753
255 11 LGR	5214335	2222116	674
255 12.5 LGR	5214397	2222124	674
255 14 LGR	5214458	2222140	674
255 16 LGR	5214519	2222167	674
255 17.5 LGR	5214571	2222175	674
255 3.2 LGR	5214038	2222035	674
255 5.2 LGR	5214090	2222051	674
255 6.5 LGR	5214151	2222078	674
255 8 LGR	5214212	2222086	674
255 9.5 LGR	5214274	2222094	674
261 3-6 G	5417132	5305012	746
2900 M6 13-16 G	5121336	1383094	704
2900 M6 16-19 G	5121398	1383116	704
2900 M6 18-21 G	5121459	1383132	704
2900 M6 19-23 G	5121510	1383167	704
2900 M6 24-29 G	5121572	1383213	704
2900 M6 30-34 G	5121633	1383299	704
2900 M6 33-38 G	5569176	1383310	704
2900 M6 39-42 G	5569237	1383418	704
2900 M6 43-48 G	5121695	1383361	704
2900 M6 49-55 G	5121756	1383426	704
2900 M6 54-60 G	5121817	1383485	704
2900 M6 61-64 G	5569299	1383507	704
2900WM10 21.5 FT	5124450	1388037	706
2900WM10 27 FT	5124511	1388053	706
2900WM10 33.5 FT	5124573	1388061	706
2900WM10 48.5 FT	5124696	1388118	706
2900WM10 60 FT	5124757	1388134	706
2900WM6 13.5 FT	5122838	1385003	705
2900WM6 17 FT	5122890	1385011	705
2900WM6 21.5 FT	5122951	1385038	705
2900WM6 27 FT	5123019	1385054	705
2900WM6 33.5 FT	5123071	1385062	705
2900WM6 42.5 FT	5123132	1385089	705
2900WM6 48.5 FT	5123194	1385119	705
2900WM6 54 FT	5123255	1385127	705

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		/100 pc.	
2900WM6 60 FT	5123316	1385135	705
2900WM8 17 FT	5123675	1387014	705
2900WM8 21.5 FT	5123736	1387030	705
2900WM8 27 FT	5123798	1387057	705
2900WM8 33.5 FT	5123859	1387065	705
2900WM8 42.5 FT	5123910	1387081	705
2900WM8 48.5 FT	5123972	1387111	705
2900WM8 60 FT	5124030	1387138	705
2900WM8 75.5 FT	5124092	1387154	705
2900WM8 88 FT	5124153	1387170	705
		price/100	
2953 M16 LGR	5028093	2153904	620
2953 M16 RW	5538578	2153960	624
2953 M20 LGR	5027799	2153912	620
2953 M20 RW	5538639	2153963	624
2953 M25 LGR	5025214	2153920	620
2953 M25 RW	5531739	2153966	624
2953 M32 LGR	5025153	2153939	620
2953 M32 RW	5538691	2153969	624
		/pc.	
2954 M16 LGR	5482895	2154501	628
2954 M20 LGR	5483014	2154528	628
2954 M25 LGR	5483076	2154536	628
2954 M32 LGR	5483137	2154544	628
		/100 pc.	
2955 M16	5583219	2149004	654
2955 M16 SW	5616276	2149559	654
2955 M20	5583936	2149010	654
2955 M20 SW	5616337	2149563	654
2955 M25	5583998	2149016	654
2955 M25 SW	5616399	2149567	654
2955 M32	5584056	2149022	654
2955 M40	5584292	2149028	654
2955 M40 SW	5616511	2149575	654
2955 M50	5588191	2149034	654
2955 M50 SW	5616993	2149579	654
2955 M63	5588252	2149040	654
2960 22 LGR SO	5588917	2136880	671
2960 22 M6 LGR	5197232	2130211	671
2962 10 LGR	5199090	2140101	670
2962 12 LGR	5199151	2140128	670
2962 15 LGR	5199212	2140152	670
2962 18 LGR	5199274	2140187	670
2962 22 LGR	5199335	2140233	670
2962 28 LGR	5199397	2140284	670
2962 2X10	5199694	2140608	670
2962 2x16	5199939	2140683	670
2962 2x22	5199991	2140721	670
2962 35 LGR	5199458	2140357	670
2962 42 LGR	5199519	2140411	670
2962 6 LGR	5198970	2140063	670
2962 8 LGR	5199038	2140071	670
2989 M6 G	5306191	3460762	753
2990 M6 G	5306979	3462862	328
2990 M6 G	5306979	3462862	754
3000 BMS M16 LGR	6869763	2154052	621
3000 BMS M16 RW	6869817	2154062	625
3000 BMS M20 LGR	6869756	2154054	621
3000 BMS M20 RW	6869824	2154064	625
3000 BMS M25 LGR	6869794	2154056	621
3000 BMS M25 RW	6869855	2154066	625
3000 BMS M32 LGR	6869800	2154058	621
3000 BMS M32 RW	6869862	2154068	625
3000 MMS M16 LGR	6870066	2154081	623
3000 MMS M16 RW	6870110	2154091	627
3000 MMS M20 LGR	6870080	2154083	623
3000 MMS M20 RW	6870127	2154093	627
3000 MMS M25 LGR	6870097	2154085	623
3000 MMS M25 RW	6870158	2154095	627
3000 MMS M32 LGR	6870103	2154087	623
3000 MMS M32 RW	6870165	2154097	627
3000 TMS M16 LGR	6868384	2153839	622
3000 TMS M16 RW	6868650	2153951	626
3000 TMS M20 LGR	6868414	2153841	622
3000 TMS M20 RW	6868667	2153953	626

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3000 TMS M25 LGR	6868551	2153843	622
3000 TMS M25 RW	6868674	2153955	626
3000 TMS M32 LGR	6868568	2153845	622
3000 TMS M32 RW	6868681	2153957	626
		/100 pc.	
3015 34 LGR	5207078	2157349	669
3040 2	5195610	2107015	667
3040 LGR	5195436	2105012	667
3041 LGR	5195498	2105039	667
3042 LGR	5195559	2105055	667
3050 LGR	5195252	2101017	666
3079 LGR	5196570	2124149	668
3080 LGR	5196631	2124173	668
3081 LGR	5196693	2124254	668
3082 LGR	5196754	2124343	668
3083 LGR	5196815	2124459	668
3100 M6 G	5250272	3131068	752
		price/100	
339 2	5127031	1408534	423
		/100 pc.	
341 M6x10 G	5254836	3153096	752
341 M6x16 A2	5261018	3168905	752
341 M6x16 G	5254898	3153150	752
341 M6x20 G	5254959	3153207	752
4758 3.5x20	5274810	3195015	761
4758 3.5x25	5274872	3195023	761
4758 3.5x30	5274933	3195031	761
4758 3.5x35	5274995	3195058	761
4758 3.5x45	5275114	3195074	761
4758 3.5x50	5275176	3195082	761
4758 4.0x15	5275237	3195201	761
4758 4.0x20	5275299	3195228	761
4758 4.0x25	5275350	3195236	761
4758 4.0x30	5275411	3195244	761
4758 4.0x35	5275473	3195252	761
4758 4.0x45	5275596	3195279	761
4758 4.0x50	5275657	3195287	761
4758 4.5x25	5275718	3195422	761
4758 4.5x30	5275770	3195430	761
4758 4.5x35	5275831	3195449	761
4758 4.5x40	5275893	3195457	761
4758 4.5x45	5275954	3195465	761
4758 4.5x50	5276012	3195473	761
4758 5.0x30	5276074	3195635	761
4758 5.0x35	5276135	3195643	761
4758 5.0x45	5276258	3195678	761
4758 5.0x50	5276319	3195686	761
4758 5.0x60	5321019	3195694	761
4758 6.0x60	5682691	3195945	761
4759 3.0x15	5155348	3192055	760
4759 3.0x20	5155386	3192059	760
4759 3.0x25	5155393	3192063	760
4759 3.0x30	5155409	3192067	760
4759 3.5x15	5654612	3192091	760
4759 3.5x20	5654674	3192105	760
4759 3.5x25	5271932	3192113	760
4759 3.5x30	5271994	3192121	760
4759 3.5x35	5272052	3192148	760
4759 3.5x40	5272113	3192156	760
4759 3.5x45	5272175	3192164	760
4759 3.5x50	5272236	3192172	760
4759 4.0x15	5654735	3192199	760
4759 4.0x20	5654797	3192202	760
4759 4.0x25	5272298	3192210	760
4759 4.0x30	5272359	3192229	760
4759 4.0x35	5272410	3192237	760
4759 4.0x40	5272472	3192245	760
4759 4.0x45	5272533	3192253	760
4759 4.0x50	5272595	3192261	760

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4759 4.5x30	5272717	3192334	760
4759 4.5x35	5272779	3192342	760
4759 4.5x40	5272830	3192350	760
4759 4.5x45	5272892	3192369	760
4759 4.5x50	5272953	3192377	760
4759 5.0x30	5273011	3192415	760
4759 5.0x35	5273073	3192423	760
4759 5.0x40	5273134	3192431	760
4759 5.0x45	5273196	3192458	760
4759 5.0x50	5273257	3192466	760
4759 6.0x40	5682578	3192628	760
4759 6.0x50	5682516	3192636	760
4759 6.0x60	5682455	3192644	760
4759T 4.0x45	5787457	3198249	760
565 2.5x100 SWUV	6416950	2331812	685
565 2.5x100 WS	6416943	2331810	684
565 2.5x150 SWUV	6416981	2331818	685
565 2.5x150 WS	6416974	2331816	684
565 2.5x200 SWUV	6417001	2331824	685
565 2.5x200 WS	6416998	2331822	684
565 2.5x75 SWUV	6416936	2331802	685
565 2.5x75 WS	6416929	2331800	684
565 3.6x150 SWUV	6417032	2331832	685
565 3.6x150 WS	6417018	2331830	684
565 3.6x200 SWUV	6417056	2331838	685
565 3.6x200 WS	6417049	2331836	684
565 3.6x290 SWUV	6417117	2331844	685
565 3.6x290 WS	6417100	2331842	684
565 3.6x365 SWUV	6417131	2331850	685
565 3.6x365 WS	6417124	2331848	684
565 4.8x120 SWUV	6417162	2331862	685
565 4.8x120 WS	6417155	2331860	684
565 4.8x160 SWUV	6417186	2331868	685
565 4.8x160 WS	6417179	2331866	684
565 4.8x200 SWUV	6417216	2331874	685
565 4.8x200 WS	6417193	2331872	684
565 4.8x300 SWUV	6417230	2331880	685
565 4.8x300 WS	6417223	2331878	684
565 4.8x365 SWUV	6417254	2331886	685
565 4.8x365 WS	6417247	2331884	684
565 4.8x430 SWUV	6417285	2331892	685
565 4.8x430 WS	6417278	2331890	684
565 7.6x200 SWUV	6417308	2331912	685
565 7.6x200 WS	6417292	2331910	684
565 7.6x300 SWUV	6417346	2331918	685
565 7.6x300 WS	6417315	2331916	684
565 7.6x380 SWUV	6417353	2331924	685
565 7.6x380 WS	6417339	2331922	684
565 7.6x450 SWUV	6417377	2331936	685
565 7.6x450 WS	6417360	2331934	684
565 9x760 SWUV	6417391	2331946	685
565 9x760 WS	6417384	2331944	684
60 N 12x16 BL	5183310	2054086	567
60 N 7x16 BL	5183198	2054000	567
60 S 12x16 GN	5183372	2054094	566
60 S 7x16 GN	5183259	2054019	566
604 10 G	5001218	1003100	707
604 11 G	5001270	1003119	707
604 12 G	5001331	1003127	707
604 13 G	5001393	1003135	707
604 16 G	5001454	1003178	707
604 19 G	5001515	1003194	707
604 20 G	5001577	1003208	707
604 21 G	5001638	1003216	707
604 23 G	5001690	1003232	707
604 25 G	5566892	1003259	707
604 28 G	5001751	1003283	707
604 3 G	5000792	1003038	707
604 32 G	5566953	1003321	707
604 35 G	5001812	1003356	707
604 37 G	5001874	1003372	707
604 4 G	5000853	1003046	707
604 40 G	5001935	1003402	707
604 47 G	5002055	1003461	707
604 5 G	5000914	1003054	707
604 6 G	5000976	1003062	707
604 7 G	5001034	1003070	707
604 8 G	5001096	1003089	707
604 9 G	5001157	1003097	707

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605 10 G	5016458	1018108	713
605 11 G	5016519	1018116	713
605 12 A4	5912002	1018653	715
605 12 G	5016571	1018124	713
605 13 G	5016632	1018132	713
605 14 G	5016694	1018140	713
605 15 G	5016755	1018159	713
605 16 A4	5912064	1018661	715
605 16 ALU	5449539	1017799	714
605 16 G	5016816	1018167	713
605 17 G	5016878	1018175	713
605 18 G	5016939	1018183	713
605 19 G	5016991	1018191	713
605 20 A4	5912101	1018669	715
605 20 G	5017059	1018205	713
605 21 G	5017110	1018213	713
605 23 G	5017172	1018221	713
605 25 A4	5912132	1018679	715
605 25 G	5017233	1018256	713
605 26 G	5017295	1018264	713
605 28 G	5017356	1018280	713
605 30 G	5017417	1018302	713
605 32 A4	5912170	1018693	715
605 32 ALU	5590170	1017926	714
605 32 G	5017479	1018337	713
605 35 G	5017530	1018353	713
605 37 G	5017592	1018361	713
605 40 A4	5912231	1018705	715
605 40 G	5017653	1018396	714
605 43 G	5017714	1018434	714
605 47 G	5017776	1018477	714
605 50 A4	5906476	1018717	715
605 50 ALU	5589938	1017980	714
605 50 G	5568339	1018507	714
605 55 G	5017837	1018558	714
605 60 G	5017899	1018604	714
605 63 A4	5906506	1018729	715
605 63 G	5568513	1018639	714
605 7 G	5016274	1018078	713
605 8 G	5016335	1018086	713
605 9 G	5016397	1018094	713
61 225 FL	6334629	2054450	558
61 325 FL	6334650	2054454	558
61 325 LGR	5879916	2054485	559
61 525 FL	6334667	2054458	558
61 525 LGR	5825319	2054507	559
61 825 LGR	5477976	2054523	559
61 HSK42	7286743	2054422	559
61 HSK43	7286781	2054423	560
61 HSK45	7286767	2054425	560
		/100 pc.	
70 VDE	5183433	2055023	562
72 CE SW/EKL 0 S	5879251	2056089	564
72 CE WS/EKL 0 S	5702610	2056070	564
731 W 12 G	5117919	1366122	704
731 W 16 G	5117971	1366165	704
731 W 20 G	5118039	1366203	704
731 W 25 G	5118091	1366254	704
731 W 30 G	5118152	1366300	704
731 W 35 G	5118213	1366351	704
7380T 6x20 G	6101023	3164952	749
7380T 6x35 G	6101030	3164956	749
7380T M6x20 A2	6101047	3164972	750
7380T M6x35 A2	6101078	3164976	750
74 CE SW/EKL 1 S	5879312	2056232	564
74 CE WS/EKL 1 S	5702559	2056224	564
76 CE SW/EKL 2 S	5879374	2056380	564
76 CE WS/EKL 2 S	5702498	2056372	564
78 CE SW/EKL 3 S	5879435	2056569	564
78 CE WS/EKL 3 S	5702436	2056550	564

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79 CE WS/EKL 4BE	5879497	2056577	565
7901 5 G	5134831	1435019	716
7902 8 G	5135012	1436023	716
7903 8 G	5135135	1437011	717
7903 9 G	5135197	1437038	717
7904 6 G	5135258	1438018	717
7908 11 G	5135555	1442015	718
7909 6 G	5135616	1443011	718
80 CE SW/EKL 5E	5300106	2056593	565
80 CE WS/EKL 5E	5300069	2056590	565
822 10 FT	5013693	1014013	710
822 12 FT	5013754	1014021	710
822 14 FT	5013815	1014048	710
822 16 FT	5013877	1014099	710
822 18 FT	5013938	1014110	710
822 20 FT	5013990	1014137	710
822 22.5 FT	5014058	1014161	710
822 25 FT	5567011	1014501	710
822 28.3 FT	5014119	1014218	710
822 32 FT	5567073	1014528	710
822 37 FT	5014171	1014293	710
822 40 FT	5567134	1014536	710
822 47 FT	5014232	1014366	710
822 50 FT	5567493	1014544	710
822 6 FT	5013631	1014005	710
822 63 FT	5567554	1014552	710
823 16 FT	5015130	1015095	715
823 18.3 FT	5015192	1015117	715
823 20 FT	5015253	1015133	715
823 22.5 FT	5015314	1015168	715
823 25 FT	5567615	1015494	715
823 28.3 FT	5015376	1015214	715
823 32 FT	5567738	1015496	715
823 37 FT	5015437	1015303	715
823 40 FT	5567790	1015498	715
823 47 FT	5015499	1015362	715
823 50 FT	5567851	1015500	715
823 54 FT	5015550	1015427	715
823 59.3 FT	5015611	1015486	715
823 63 FT	5567912	1015508	715
865 M10x34	5311294	3483096	644
865 M6x24	5311171	3483061	644
865 M8x30	5311232	3483088	644
867 M5X125 G	5309253	3470148	752
867 M6X 95 G	5309314	3470210	752
867 M6X125 G	5309376	3470237	752
869 M8X40 G	5309550	3472086	753
89		1.100.0.000	591
		/100 pc.	
903 15 G	5245773	3100154	643
903 18 G	5245834	3100189	643
903 25 G	5245896	3100251	643
903 30 G	5245957	3100308	643
903 40 G	5246015	3100405	643
903 RB 15	5851059	3105016	643
903 RB 18	5851110	3105024	643
903 RB 22	5851172	3105032	643
910 GD 6x35	5828198	2347229	636
910 GD 8x50	5828259	2347261	636
910 STK 6x30	5708971	2351609	659
		/pc.	
915 RBS M4	5851417	3031500	643
915 S M6	5241690	3031012	643
		/100 pc.	
939	5386056	5043107	246

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946 4 G	5414018	5301041	746
947 3 G	5414551	5302021	328
947 3 G	5414551	5302021	746
947 6 G	5414674	5302064	746
		price/100	
957 2 G	5464273	5303202	745
957 3 G	5414971	5303206	328
957 3 G	5414971	5303206	745
957 4 G	5415039	5303214	745
		/100 pc.	
965 M6X20 G	5303558	3415031	755
965 M6X25 G	5303619	3415066	755
965 M6X40 G	5303732	3415104	755
965 M8X20 G	5303855	3415147	755
965 M8X30 G	5303916	3415163	755
966 M10 F	5300854	3402460	756
966 M12 F	5300915	3402479	756
966 M6 F	5300731	3402444	756
966 M8 F	5300793	3402452	756
985 M6 25	5250395	3133028	643
985 M6 35	5250456	3133036	643
A 11	5152170	2000342	472
A 11 HF RW	5707899	2000180	472
A 14	5917090	2000378	472
A 18	5917137	2000410	473
A 6	5917069	2000001	471
A 6 HF RW	5917083	2000005	471
A 8	5151395	2000016	471
A 8 HF RW	5313090	2000075	471
ACMHB M6x30 ZL	6488865	1148056	459
ACMHB M8x30 ZL	6488872	1148060	459
ACMSN M6 A4	6488780	1147076	458
ACMSN M6 ZL	6488810	1147056	457
ACMSN M8 ZL	6488827	1147060	457
AHB 100 D5 FT	5834878	6066510	325
AHB 100 D5 FT	5834878	6066510	338
		/pc.	
AHB 100 FT	6881413	6363903	411
AHB 200 FT	6881475	6363911	411
AHB 300 FT	6881536	6363938	411
AHB 400 FT	6881598	6363946	411
		/100 pc.	
AHB 50 D4 FT	6935895	6066505	325
AHB 50 D4 FT	6935895	6066505	338
		/pc.	
AHIS 8 FT	6014477	6019064	316
AHIS 8 FT	6014477	6019064	386
		/100 pc.	
ALQ M20	6409242	2149920	687
ALQ M50	6409297	2149950	687
ALQ M63	6409303	2149963	687
AML3518P0300FT	5060611	1119693	449
AML3518P0500FT	5060253	1119687	449
AML3518P0700FT	5059356	1119681	449
AML3518P0800FT	5059295	1119678	449
		price/100	
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AML3518P1000FT	5053958	1119672	441
AML3518P2000A2	5047650	1119702	442
AML3518P2000FS	5864318	1119648	441
AML3518P2000FT	5047599	1119656	441
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AML3518UP2000FT	5047056	1118129	445

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AMS3518UP2000FS	5043270	1112120	447
AMS3518UP2000FT	5043393	1112228	446
AMS3518UP2000FT	5043393	1112228	447
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AS 15 16 FT	6207794	6421334	357
AS 15 21 FT	6207855	6421350	357
AS 15 31 FT	6207916	6421385	357
AS 15 41 FT	6207978	6421423	357
AS 15 51 FT	6208036	6421466	357
AS 15 61 FT	6208098	6421490	357
AS 30 11 FT	5873228	6419370	358
AS 30 16 FT	5873235	6419376	358
AS 30 21 FT	5873242	6419382	358
AS 30 31 FT	5873259	6419388	358
AS 30 41 FT	5873266	6419394	358
AS 30 51 FT	5873273	6419400	358
AS 30 61 FT	5873297	6419412	358
AS 55 21 FT	5872917	6419286	359
AS 55 31 FT	5872924	6419292	359
AS 55 41 FT	5872931	6419298	359
AS 55 51 FT	5873150	6419304	359
AS 55 61 FT	5873174	6419316	359
ASG 732 10 A2	6609383	1362628	697
ASG 732 10 A4	6599769	1362460	698
ASG 732 10 FT	6599363	1362360	696
ASG 732 10 G	6599615	1362410	695
ASG 732 12 A2	6609390	1362630	697
ASG 732 12 A4	6599776	1362462	698
ASG 732 12 FT	6599370	1362362	696
ASG 732 12 G	6599622	1362412	695
ASG 732 14 A2	6609406	1362632	697
ASG 732 14 A4	6599783	1362464	698
ASG 732 14 FT	6599387	1362364	696
ASG 732 14 G	6599639	1362414	695
ASG 732 17 A2	6609413	1362634	697
ASG 732 17 A4	6599790	1362467	698
ASG 732 17 FT	6599394	1362367	696
ASG 732 17 G	6599646	1362417	695
ASG 732 20 A2	6609420	1362636	697
ASG 732 20 A4	6599806	1362469	698
ASG 732 20 FT	6599400	1362369	696
ASG 732 20 G	6599653	1362420	695
ASG 732 25 A2	6609437	1362638	697
ASG 732 25 A4	6599813	1362472	698
ASG 732 25 FT	6599417	1362372	696
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ASG 732 30 FT	6599424	1362374	696
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ASG 732 36 A2	6609451	1362642	697
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ASG 732 36 FT	6599431	1362378	696
ASG 732 36 G	6599684	1362432	695
ASG 732 44 A2	6609468	1362644	697
ASG 732 44 A4	6599844	1362482	698
ASG 732 44 FT	6600700	1362382	696
ASG 732 44 G	6599691	1362436	695
ASG 732 53 A2	6609475	1362646	697
ASG 732 53 A4	6599851	1362486	698
ASG 732 53 FT	6599448	1362386	696
ASG 732 53 G	6599707	1362440	695
ASG 732 6 A2	6609352	1362622	697
ASG 732 6 A4	6599738	1362454	698
ASG 732 6 FT	6599332	1362354	696
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ASG 732 63 A2	6609482	1362648	697
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ASG 732 8 FT	6599356	1362358	696
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ASL 733 10 A4	6600250	1362904	702
ASL 733 10 ALU	6600144	1362804	703
ASL 733 10 FT	6599875	1362704	700
ASL 733 10 G	6600021	1362754	699
ASL 733 12 A2	6608874	1362978	701
ASL 733 12 A4	6600267	1362906	702
ASL 733 12 ALU	6600151	1362806	703
ASL 733 12 FT	6599882	1362706	700
ASL 733 12 G	6600038	1362756	699
ASL 733 14 A2	6608881	1362980	701
ASL 733 14 A4	6600274	1362908	702
ASL 733 14 ALU	6600243	1362808	703
ASL 733 14 FT	6599905	1362708	700
ASL 733 14 G	6600045	1362758	699
ASL 733 17 A2	6608898	1362982	701
ASL 733 17 A4	6600281	1362912	702
ASL 733 17 ALU	6600168	1362812	703
ASL 733 17 FT	6599912	1362712	700
ASL 733 17 G	6600052	1362762	699
ASL 733 20 A2	6608904	1362984	701
ASL 733 20 A4	6600298	1362914	702
ASL 733 20 ALU	6600175	1362814	703
ASL 733 20 FT	6599929	1362714	700
ASL 733 20 G	6600069	1362764	699
ASL 733 25 A2	6608911	1362986	701
ASL 733 25 A4	6600304	1362918	702
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ASL 733 25 FT	6599936	1362718	700
ASL 733 25 G	6600076	1362768	699
ASL 733 30 A2	6608928	1362988	701
ASL 733 30 A4	6600335	1362922	702
ASL 733 30 ALU	6600199	1362822	703
ASL 733 30 FT	6599943	1362722	700
ASL 733 30 G	6600083	1362772	699
ASL 733 36 A2	6608935	1362990	701
ASL 733 36 A4	6600311	1362926	702
ASL 733 36 ALU	6600205	1362826	703
ASL 733 36 FT	6599981	1362726	700
ASL 733 36 G	6600090	1362776	699
ASL 733 44 A2	6608942	1362992	701
ASL 733 44 A4	6600328	1362930	702
ASL 733 44 ALU	6600212	1362830	703
ASL 733 44 FT	6599998	1362730	700
ASL 733 44 G	6600106	1362780	699
ASL 733 53 A2	6608959	1362994	701
ASL 733 53 A4	6600359	1362934	702
ASL 733 53 ALU	6600229	1362834	703
ASL 733 53 FT	6600007	1362734	700
ASL 733 53 G	6600113	1362784	699
ASL 733 63 A2	6608966	1362996	701
ASL 733 63 A4	6600366	1362938	702
ASL 733 63 ALU	6600236	1362838	703
ASL 733 63 FT	6600014	1362738	700
ASL 733 63 G	6600120	1362788	699
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AW 15 21 A2	6207619	6421024	347
AW 15 21 FT	6207190	6420680	346
AW 15 31 A2	6207671	6421032	347
AW 15 31 FT	6207251	6420710	346
AW 15 41 A2	5061953	6421036	347
AW 15 41 FT	6207312	6420745	346
AW 15 51 A2	5061960	6421040	347
AW 15 51 FT	6207374	6420788	346
AW 15 56 FT	6207435	6420796	346
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AW 30 21 FT	6206711	6419720	350
AW 30 31 A2	6209118	6442854	351
AW 30 31 FT	6206773	6419747	350
AW 30 41 FT	6206834	6419763	350
AW 30 51 FT	6206896	6419798	350
AW 30 61 FT	6206957	6419828	350
AW 55 101 FT	6205271	6418724	352
AW 55 21 FT	6204731	6418554	352
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AW 55 41 FT	6204854	6418597	352
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AW 80 31 FT	6203536	6417779	353
AW 80 41 FT	6203598	6417795	353
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AW 80 61 FT	6203710	6417833	353
AW 80 71 FT	6203772	6417868	353
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AW G 15 16 FT	6079155	6420607	348
AW G 15 21 FT	6662531	6420608	348
AW G 15 31 FT	6662593	6420610	348
AW G 15 41 FT	6662654	6420612	348
AW G 15 51 FT	6662715	6420614	348
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AWSS 21 FT	6340279	6417906	354
AWSS 31 FT	6340330	6417910	354
AWSS 41 FT	6340392	6417914	354
AWSS 51 FT	6340453	6417918	354
AWSS 61 FT	6340514	6417922	354
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AZDMD 150 A2	5811329	6080870	339
AZDMD 150 FS	5811305	6080860	339
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AZDMD 200 FT	5811367	6080890	339
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AZDMD 300 FT	5811428	6080915	339
AZDMD 50 A2	6069491	6080197	339
AZDMD 50 DD	6405916	6080154	324
AZDMD 50 DD	6405916	6080154	339
AZDMD 50 FS	6069439	6080138	324
AZDMD 50 FS	6069439	6080138	339
		/pc.	
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AZDR 50 FT	6064458	6065112	340
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AZDU 100 DD	6084197	6080239	340

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AZK 100 A2	6069255	6075304	334
AZK 100 FS	6069132	6075231	333
AZK 100 FT	6069194	6075258	333
AZK 150 A2	5811145	6075330	336
AZK 150 FS	5811121	6075320	335
AZK 150 FT	5811138	6075325	335
AZK 200 A2	5811206	6075355	337
AZK 200 FS	5811183	6075345	335
AZK 200 FT	5811190	6075350	335
AZK 300 FS	5811244	6075370	336
AZK 300 FT	5811251	6075375	336
AZK A 050 FT	6069316	6076149	333
AZK A 100 FT	6069378	6076246	334
		/100 pc.	
B 9 T	5335474	2001810	525
B 9 T M	5540076	2001853	525
		/pc.	
BC SGR A2	6434152	6016668	247
		/100 pc.	
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BCC 2-4 D14	6503407	1483911	420
BCC 2-4 D18	6503438	1483915	420
BCC 2-4 D24	6503445	1483919	420
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BCC 4-7 D14	6503520	1483941	420
BCC 4-7 D18	6503551	1483945	420
BCC 4-7 D24	6503568	1483951	420
BCC 4-7 D30	6503575	1483955	420
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BCC 4-7 D7	6503490	1483933	420
BCC 4-7 D9	6503506	1483935	420
BCC 8-12 D11	6503629	1483965	420
BCC 8-12 D14	6503636	1483969	420
BCC 8-12 D18	6503643	1483973	420
BCC 8-12 D24	6503674	1483977	420
BCC 8-12 D30	6503681	1483981	420
BCC 8-12 D5,5	6503735	1483960	420
BCC 8-12 D7	6503582	1483961	420
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BCVH 8-14	6502189	1483605	418
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BEB 100 DD	6983728	7083618	168
BEB 100 FS	6231072	7083106	168
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BEB 300 FS	6231256	7083300	168
BEB 400 DD	6024254	7083634	168
BEB 400 FS	6231317	7083408	168
BEB 500 DD	6024490	7083638	168
BEB 500 FS	6231379	7083505	168
BEB 600 DD	6034635	7083642	168
BEB 600 FS	6231492	7083602	168
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BS-F1-K-40 FT	6854103	1187632	738
BS-F1-K-46 FT	6854134	1187638	738
BS-F1-K-52 FT	6854141	1187644	738
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BS-F1-K-64 FT	6854165	1187656	738
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BS-H3-M-22 FT	6848607	1186018	728
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BS-N1-K-52 ALU	6853243	1187344	720
BS-N1-K-52 FT	6852956	1187244	719
BS-N1-K-58 ALU	6853250	1187350	720
BS-N1-K-58 FT	6852963	1187250	719
BS-N1-K-64 FT	6852994	1187256	719
BS-N1-K-70 FT	6853007	1187262	719
BS-N1-M-12 FT	6852352	1187002	719
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BS-N1-M-58 FT	6852598	1187050	719
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BS-U1-K-22 A2	6851379	1186816	725
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BS-U1-K-22 FT	6850839	1186716	723
BS-U1-K-28 A2	6851409	1186822	725
BS-U1-K-28 ALU	6851881	1186922	726
BS-U1-K-28 FT	6850860	1186722	723
BS-U1-K-34 A2	6851454	1186829	725
BS-U1-K-34 ALU	6851935	1186929	726
BS-U1-K-34 FT	6850914	1186729	723
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BS-U1-K-40 ALU	6851980	1186936	726

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BS-U1-K-46 ALU	6852031	1186942	726
BS-U1-K-46 FT	6851010	1186742	723
BS-U1-K-52 A2	6851584	1186849	725
BS-U1-K-52 ALU	6852062	1186949	726
BS-U1-K-52 FT	6851041	1186749	723
BS-U1-K-58 A2	6851621	1186856	725
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BS-U1-K-58 FT	6851089	1186756	723
BS-U1-K-64 A2	6851645	1186862	725
BS-U1-K-64 ALU	6852123	1186962	726
BS-U1-K-64 FT	6851102	1186762	723
BS-U1-K-70 A2	6851683	1186869	725
BS-U1-K-70 ALU	6852161	1186969	726
BS-U1-K-70 FT	6851140	1186769	723
BS-U1-K-76 A2	6851690	1186876	725
BS-U1-K-76 ALU	6852178	1186976	726
BS-U1-K-76 FT	6851157	1186776	723
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BS-U1-M-28 FT	6849901	1186522	721
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BS-U1-M-70 A4	6850662	1186669	722
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BS-U2-K-12 FT	6850747	1186703	724
BS-U2-K-16 FT	6850792	1186710	724
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BS-W1-K-22 ALU	6855049	1187914	741
BS-W1-K-22 FT	6854387	1187714	739
BS-W1-K-28 A2	6854745	1187820	740
BS-W1-K-28 ALU	6855056	1187920	741
BS-W1-K-28 FT	6854394	1187720	739
BS-W1-K-34 A2	6854806	1187826	740
BS-W1-K-34 ALU	6855063	1187926	741
BS-W1-K-34 FT	6854400	1187726	739
BS-W1-K-40 A2	6854820	1187832	740
BS-W1-K-40 ALU	6855155	1187932	741
BS-W1-K-40 FT	6854431	1187732	739
BS-W1-K-46 A2	6854851	1187838	740
BS-W1-K-46 ALU	6855162	1187938	741
BS-W1-K-46 FT	6854448	1187738	739
BS-W1-K-52 A2	6854868	1187844	740
BS-W1-K-52 ALU	6855179	1187944	741
BS-W1-K-52 FT	6854455	1187744	739
BS-W1-K-58 A2	6854875	1187850	740
BS-W1-K-58 ALU	6855186	1187950	741

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BS-W1-K-70 FT	6854615	1187762	739
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BS-W2-K-16 FT	6854462	1187709	740
BS-W2-K-22 FT	6854493	1187715	740
BS-W2-K-28 FT	6854509	1187721	740
BS-W2-K-34 FT	6854516	1187727	740
BS-W2-K-40 FT	6854523	1187733	740
BS-W2-K-46 FT	6854554	1187739	740
BS-W2-K-52 FT	6854561	1187745	740
BS-W2-K-58 FT	6854639	1187751	740
BW 10 A2	7352240	6019484	386
BW 10 FT	7352202	6019480	386
BW 12 FT	7352226	6019500	386
BW 64 32 A2	6701636	6019686	375
BW 64 32 FS	6701612	6019680	375
BW 64 32 FT	6701629	6019682	375
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BW 80 55 FT	6014538	6019528	316
BW 80 55 FT	6014538	6019528	386
		/100 pc.	
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BZ 12-160/255	6571482	3498358	646
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FL1-G M8 TG	5151036	1488074	422
FL2-G M10 TG	5151098	1488082	422
FL3-G M12 TG	5151159	1488090	422
FRS 10x20 A2	6200894	6406866	749
FRS 10x20 F	6201730	6407471	749
FRS 10x25 A2	6200474	6406718	749
FRS 10x25 F	6201792	6407528	749
FRS 10x25 F 8.8	6201914	6407560	749
FRS 10x25 TPS A2	5626343	6407537	749
FRS 10x25 TPS F	6201853	6407536	749
FRS 10x30 A2	6200535	6406726	749

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FRS 10x30 F	6201976	6407579	749
FRS 12x25 F	6200054	6406254	749
FRS 12x30 F	6200115	6406270	749
FRS 6x12 A2	6200238	6406521	749
FRS 6x16 A2	6200290	6406556	749
FRS 6x20 A2	6200351	6406602	749
FRS 8x16 A2	6200412	6406696	749
FRS 8x16 F 5.6	6201198	6406939	749
FRS 8x16 F 8.8	6201259	6406963	313
FRS 8x16 F 8.8	6201259	6406963	749
FRS 8x20 F	6201310	6406971	749
FRS 8x25 A2	6200771	6406815	749
FRS 8x25 F	6201372	6406998	313
FRS 8x25 F	6201372	6406998	749
FRS 8x35 A2	6200832	6406823	749
FRS 8x35 F	6201433	6407048	313
FRS 8x35 F	6201433	6407048	749
FRSB 6x12 A2	6077595	6406138	748
FRSB 6x12 A4	6078370	6406142	748
FRSB 6x12 F	6199815	6406122	748
FRSB 6x12 G	6563111	6406130	748
FRSB 6x12 VZ G	5059561	6406133	748
FRSB 6x16 A2	6077717	6406189	748
FRSB 6x16 F	6199877	6406157	748
FRSB 6x20 A2	5925248	6406205	748
FRSB 6x20 F	6199990	6406203	748
FRSB 6x20 G	6616152	6406181	748
FRSB 6x30 F	5045243	6406907	748
FRSB M10x20 A2	5849537	3175620	748
FRSB M10x25 A2	5849544	3175625	748
		/pc.	
GEV 36 A2	6013333	6016731	240
GEV 36 FT	6013272	6016723	240
GEV 36 G	6307876	6016715	239
		price/m	
G-GRM 125 75 A2	5686491	6005556	235
G-GRM 125 75 FT	5686415	6005526	234
G-GRM 125 75 G	5686453	6005541	233
G-GRM 150 100 A2	5686507	6005559	238
G-GRM 150 100 FT	5686422	6005529	237
G-GRM 150 100 G	5686460	6005544	236
G-GRM 50 50 A2	5686477	6005550	229
G-GRM 50 50 FT	5686392	6005520	228
G-GRM 50 50 G	5686439	6005535	227
G-GRM 75 50 A2	5686484	6005553	232
G-GRM 75 50 FT	5686408	6005523	231
G-GRM 75 50 G	5686446	6005538	230
		/pc.	
GKB 34 A2	5694069	6016676	244
GKB 34 G	5694052	6016674	244
GKS 34 A2	6013456	6016839	243
GKS 34 FT	6013395	6016820	243
GKS 34 G	7261436	6016855	243
GKS 50 07 FS	6421398	6015263	245
GKS 50 07 FT	6785353	6015271	245
GKS 50 11 FS	6965847	6015276	245
GKS 50 11 FT	6965908	6015278	245
GKT 38 A2	6013579	6017045	209
GKT 38 A2	6013579	6017045	214
GKT 38 A2	6013579	6017045	220
GKT 38 A2	6013579	6017045	241
GKT 38 A2	6013579	6017045	245
GKT 38 FT	6013630	6017061	209
GKT 38 FT	6013630	6017061	214
GKT 38 FT	6013630	6017061	219
GKT 38 FT	6013630	6017061	241
GKT 38 FT	6013630	6017061	244
GKT 38 G	6307937	6017037	208
GKT 38 G	6307937	6017037	213
GKT 38 G	6307937	6017037	219
GKT 38 G	6307937	6017037	240
GKT 38 G	6307937	6017037	244
GMA M10 FS	6421510	6015247	412
GMA M10 FT	6942619	6015255	412
GMA M6 FS	6421695	6015220	412
GMA M8 FS	6421572	6015239	412

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GMS 6 KD FT	6559824	1124792	463
		/pc.	
GP 31 28 FT	6296415	6357016	466
GR BS	6784974	6017698	247
		/100 pc.	
GR KS 3.9 OR	5872887	6003750	245
GR KS 4.8 OR	5872894	6003754	245
		/pc.	
GRB 90 510 FT	6001699	6002218	214
GRB 90 510 G	6352630	6001920	214
GRB 90 515 G	6624799	6001998	214
GRB 90 520 FT	6001750	6002226	214
GRB 90 520 G	6352692	6001939	214
GRB 90 530 FT	6001811	6002234	214
GRB 90 530 G	6352753	6001947	214
GRB 90 540 G	6352814	6001955	214
GRB 90 550 G	6352876	6001963	214
GRB 90 560 G	6352937	6001971	214
		price/m	
GRM 105 100 A2	5149620	6002451	218
GRM 105 100 FT	6021239	6002431	217
GRM 105 100 G	6020270	6002402	216
GRM 105 150 A2	5422624	6002455	218
GRM 105 150 FT	6021352	6002433	217
GRM 105 150 G	6020393	6002404	216
GRM 105 200 A2	5149637	6002457	218
GRM 105 200 FT	6021475	6002435	217
GRM 105 200 G	6020515	6002406	216
GRM 105 300 A2	5149644	6002460	218
GRM 105 300 FT	6021598	6002437	217
GRM 105 300 G	6020638	6002408	216
GRM 105 400 A2	5149675	6002463	218
GRM 105 400 FT	6021710	6002439	217
GRM 105 400 G	6020751	6002410	216
GRM 105 500 A2	5149682	6002466	218
GRM 105 500 FT	6021956	6002443	217
GRM 105 500 G	6020997	6002415	216
GRM 105 600 A2	5771586	6002469	218
GRM 105 600 FT	6022076	6002445	217
GRM 105 600 G	6021116	6002417	216
GRM 35 100 A2	5467700	6000055	207
GRM 35 100 G	5037149	6000062	205
GRM 35 150 A2	5467731	6000056	207
GRM 35 150 FT	5037231	6000072	206
GRM 35 150 G	5037170	6000063	205
GRM 35 200 A2	5470724	6000057	207
GRM 35 200 G	5037187	6000064	205
GRM 35 300 A2	5470731	6000059	207
GRM 35 300 G	5037194	6000066	205
GRM 35 50 A2	5650591	6000054	207
GRM 35 50 FT	5624820	6000069	206
GRM 35 50 G	5624813	6000060	205
GRM 55 100 A2	6101290	6001072	212
GRM 55 100 FT	6814879	6001416	211
GRM 55 100 G	6858552	6001442	210
GRM 55 150 A2	6101351	6001074	212
GRM 55 150 FT	6078912	6001418	211
GRM 55 150 G	6078974	6001444	210
GRM 55 200 4.8FT	5045281	6001421	211
GRM 55 200 A2	6101412	6001076	212
GRM 55 200 FT	6814930	6001420	211
GRM 55 200 G	6858613	6001446	210
GRM 55 300 A2	6101771	6001078	212
GRM 55 300 FT	6815050	6001424	211
GRM 55 300 G	6858675	6001448	210
GRM 55 400 A2	6102198	6001080	212
GRM 55 400 FT	6815111	6001428	211
GRM 55 400 G	6858736	6001450	210
GRM 55 50 A2	5430933	6001070	212
GRM 55 50 FT	5430940	6001415	211
GRM 55 50 G	5430957	6001441	210
GRM 55 500 A2	6102259	6001082	212
GRM 55 500 FT	6815173	6001432	211
GRM 55 500 G	6858798	6001452	210
GRM 55 600 A2	6102310	6001085	212

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		/pc.	
GRS 3.9 DD	6518111	6016545	240
GRS 4.8 DD	6517992	6016561	240
GRV 245 FS	6052578	6016680	239
GSV 34 A2	6013210	6016642	239
GSV 34 FT	6013159	6016634	239
GSV 34 G	6520510	6016596	239
		price/m	
GW 40 80 FT	6002955	6003818	248
HE 61-DV-L	6865499	2003826	547
HE 74-L	7276676	2003828	547
HG 35	6687060	2003800	544
HG 45-WAD-LD	7244842	2003834	548
HG 45-WA-LD	7246303	2003832	547
HG 47	6687077	2003802	544
HG 47-DV	6863945	2003822	545
HG 47-L	6715930	2003806	544
HG 61	6687084	2003804	545
HG 61-AD	6689880	2003818	546
HG 61-AD-D	6714650	2003820	546
HG 61-AD-IP	6700790	2003819	546
HG 61-L	6715947	2003808	545
		/100 pc.	
HLAK 1-2x70 GR	6614356	2009042	476
HLAK 1-2x70 GRBL	6614370	2009046	476
HLAK 1-2x70 GRGN	6614363	2009044	476
HLAK 4-8x16	6614325	2009032	475
HLAK 5-10x16	6614332	2009036	475
HLAK 5-10x25	6614349	2009038	475
HN M10 A2	5297796	3397106	758
HN M10 A4	5618072	3400177	758
HN M10 G	5298212	3400107	758
HN M12 A4	5894810	3397145	758
HN M12 G	5298274	3400123	758
HN M4 G	5297970	3400042	758
HN M5 G	5298038	3400050	758
HN M6 A2	5297673	3397068	758
HN M6 A4	5909293	3400173	758
HN M6 G	5298090	3400069	758
HN M8 A2	5297734	3397084	758
HN M8 G	5298151	3400085	758
HS M6x13 A2	5463399	1154990	245
		price/m	
IKS 610 FS	6168439	6087116	113
IKS 620 FS	6335053	6087132	113
IKS 630 FS	6335114	6087140	113
IKS 640 FS	6335176	6087159	113
		/pc.	
IS 8 200 FT	6183791	6337236	385
IS 8 30 FT	6182770	6337031	385
IS 8 300 FT	6183852	6337244	385
IS 8 600 FT	6183913	6337252	385
IS 8 K 100 FT	6196814	6361218	383
IS 8 K 110 FT	6196876	6361234	383
IS 8 K 120 FT	6196937	6361250	383
IS 8 K 130 FT	6196999	6361277	383
IS 8 K 140 FT	6197057	6361293	383
IS 8 K 150 FT	6197118	6361315	383
IS 8 K 160 FT	6197170	6361331	383
IS 8 K 170 FT	6197231	6361366	383
IS 8 K 180 FT	6197293	6361382	383
IS 8 K 20 FT	6196333	6361021	383
IS 8 K 200 FT	6197415	6361420	383
IS 8 K 30 FT	6196395	6361056	383
IS 8 K 300 FT	6472031	6361692	384
IS 8 K 40 FT	6196456	6361072	383
IS 8 K 50 FT	6196517	6361099	383

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IS 8 K 60 FT	6196579	6361110	383
IS 8 K 70 FT	6196630	6361137	383
IS 8 K 80 FT	6196692	6361153	383
IS 8 K 90 FT	6196753	6361188	383
IS 8 KS OR	5668077	6338519	315
IS 8 KS OR	5668077	6338519	385
K 12 1818 FS	6208876	6437109	248
K12 1818 A2	6013036	6016421	248
KA-AW 30 FT	6536832	6346715	356
KAB GR FS	5677932	6220139	241
KAB GR FT	5807124	6220142	241
		/100 pc.	
KBH16 LGR	5623182	2047736	629
KBH20 LGR	5623199	2047738	629
KBH25 LGR	5623205	2047739	629
KBH32 LGR	5623212	2047740	629
KBH40 LGR	5623229	2047741	629
KBH50 LGR	5623236	2047742	629
KBH63 LGR	5623243	2047743	629
		price/100	
K-C30 G	5151210	1488201	745
		/100 pc.	
KD 10 100	5239352	3482758	644
		price/100	
KH16 LGR	5622987	2047720	629
KH20 LGR	5622994	2047721	629
KH25 LGR	5623007	2047722	629
KH32 LGR	5623014	2047723	629
KH40 LGR	5623021	2047724	629
KH50 LGR	5623038	2047725	629
KH63 LGR	5623045	2047726	629
		/pc.	
KI 8 FT	6190515	6347053	385
KI 8 NOK FT	6190577	6347061	385
KL 20 FT	6003013	6003850	245
KL 30 FT	6003075	6003869	245
KL1 10 S FT	6194292	6354106	430
KL1 15 S FT	6194353	6354114	430
KL1 20 S FT	6194414	6354122	430
KLAS 15 30 FT	6675586	6419015	356
		/100 pc.	
KL-DBN12x02GRBL	6474233	2016265	567
KL-DBN4x16BL	6474226	2016255	556
KL-DBP12x02GR	6474981	2016270	565
KL-DBS12x02GRGN	6474202	2016260	566
KL-DBS4x16GN	6474219	2016250	555
		/pc.	
KLL 32 FT	5849841	6221061	292
KL-X10 06-16	6614295	2008931	475
KL-X16 06-16	6614301	2008935	475
KL-X25 16-35	6614318	2008939	475
		/100 pc.	
KM M10 A2	5849711	3156122	759
KM M6 A2	6078554	6408966	759
KM M6 F	6078493	6408962	759

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		/100 pc.	
KM M6 G	6623952	6408958	758
		/pc.	
KS 23 35 FT	6012312	6015174	244
		/100 pc.	
KS GR A2	5694625	6062282	208
KS GR A2	5694625	6062282	213
KS GR A2	5694625	6062282	219
KS GR A2	5694625	6062282	243
KS KL A2	5694656	6062284	190
KS KL A2	5694656	6062284	196
KS KL A2	5694656	6062284	198
KS KL A2	5694656	6062284	265
KS KL A2	5694656	6062284	274
KS KR A2	5694618	6062280	53
KS MKS SKS FS	6146352	6062300	116
		price/100	
KSB 2 PVC	6295395	6072909	167
KSB 4 PVC	6295579	6072895	167
		/pc.	
KSR-910 PE	6065172	6066712	324
KSR-910 PE	6065172	6066712	338
KSR-915 PE	6065110	6066704	324
KSR-915 PE	6065110	6066704	338
KSR-920 PE	5811114	6066696	339
KSR-925 PE	5811084	6066688	339
KSR-DR 920 PE	6346639	6087965	325
KU 3 A2	5706014	6348876	367
KU 3 FT	6340217	6348874	366
KU 3 V FS	5354826	6348881	367
KU 3 V FT	5354833	6348883	367
KU 5 V FT	6901456	6348920	372
KU 7 FT	6191413	6349102	374
KU 7 NOX FT	6191352	6349056	374
KU 7 VQP FT	6191475	6349153	375
KUS 5 FT	6168910	6348904	372
KUS 5 NOK A2	6437832	6348947	372
KUS 5 NOK FT	6437771	6348939	372
		/100 pc.	
KVH16 LGR	5623083	2047728	629
KVH20 LGR	5623090	2047729	629
KVH25 LGR	5623106	2047730	629
KVH32 LGR	5623144	2047731	629
KVH40 LGR	5623151	2047732	629
KVH50 LGR	5623168	2047733	629
KVH63 LGR	5623175	2047734	629
		price/pac	
KVM-M	5686354	2363015	528
		price/pair	
KWH 10 FT	6194537	6355048	430
KWH 25 FT	6194711	6355072	430
KWH 5 FT	6194476	6355021	430
KWS 10 FT	6194834	6355226	430
KWS 15 FT	6194896	6355234	430
KWS 20 FT	6194957	6355242	430
KWS 25 FT	6195015	6355250	430
KWS 5 FT	6194773	6355218	430
		/pc.	
LAA 1120 R3 FS	6445486	6225910	277
LAA 1120 R3 FT	6445554	6225930	277
LAA 1130 R3 FS	6445493	6225912	277
LAA 1130 R3 FT	6445561	6225932	277
LAA 1140 R3 FS	6445509	6225914	277
LAA 1140 R3 FT	6445578	6225934	277

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LAA 1150 R3 FT	6445592	6225938	277
LAA 1160 R3 FS	6445547	6225918	277
LAA 1160 R3 FT	6445608	6225940	277
LAA 620 R3 FS	6445387	6225850	267
LAA 620 R3 FT	6445431	6225870	267
LAA 630 R3 FS	6445394	6225852	267
LAA 630 R3 FT	6445448	6225872	267
LAA 640 R3 FS	6445400	6225854	267
LAA 640 R3 FT	6445455	6225874	267
LAA 650 R3 FS	6445417	6225856	267
LAA 650 R3 FT	6445462	6225876	267
LAA 660 R3 FS	6445424	6225858	267
LAA 660 R3 FT	6445479	6225878	267
LAAD 1000 R3 FT	6536528	6226348	298
LAAD 1200 R3 FT	6536559	6226352	298
LAAD 200 R3 FS	6536313	6226310	298
LAAD 200 R3 FT	6536399	6226330	298
LAAD 300 R3 FS	6536320	6226312	298
LAAD 300 R3 FT	6536405	6226332	298
LAAD 400 R3 FS	6536337	6226314	298
LAAD 400 R3 FT	6536436	6226334	298
LAAD 450 R3 FT	6536450	6226336	298
LAAD 500 R3 FS	6536344	6226316	298
LAAD 500 R3 FT	6536443	6226338	298
LAAD 600 R3 FS	6536375	6226318	298
LAAD 600 R3 FT	6536467	6226340	298
LAAD 750 R3 FT	6536498	6226342	298
LAAD 800 R3 FT	6536504	6226344	298
LAAD 900 R3 FT	6536511	6226346	298
LAB 30 FT	6163458	6220444	294
LAB 60 FT	6163632	6220479	294
LAS 110 FS	6165254	6221416	274
LAS 110 FT	6165315	6221424	274
LAS 60 FS	6165070	6221351	265
LAS 60 FT	6165131	6221378	265
LB 90 1120 R3 FS	6443871	6225122	275
LB 90 1120 R3 FT	6443932	6225142	275
LB 90 1130 R3 FS	6443895	6225124	275
LB 90 1130 R3 FT	6443949	6225144	275
LB 90 1140 R3 FS	6443901	6225126	275
LB 90 1140 R3 FT	6443956	6225146	275
LB 90 1145 R3 FT	6443963	6225148	275
LB 90 1150 R3 FS	6443918	6225128	275
LB 90 1150 R3 FT	6443970	6225150	275
LB 90 1160 R3 FS	6443925	6225130	275
LB 90 1160 R3 FT	6443987	6225152	275
LB 90 620 R3 A2	6443703	6225082	266
LB 90 620 R3 FS	6443604	6225042	266
LB 90 620 R3 FT	6443659	6225062	266
LB 90 630 R3 A2	6443710	6225084	266
LB 90 630 R3 FS	6443611	6225044	266
LB 90 630 R3 FT	6443666	6225064	266
LB 90 640 R3 A2	6443727	6225086	266
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LB 90 640 R3 FT	6443673	6225066	266
LB 90 650 R3 A2	6443734	6225088	266
LB 90 650 R3 FS	6443635	6225048	266
LB 90 650 R3 FT	6443680	6225068	266
LB 90 660 R3 A2	6443741	6225090	266
LB 90 660 R3 FS	6443642	6225050	266
LB 90 660 R3 FT	6443697	6225070	266
LBD 90 1000 R3FT	6534760	6226028	297
LBD 90 1200 R3FT	6534777	6226032	297
LBD 90 200 R3 A2	6534784	6226050	297
LBD 90 200 R3 FS	6532780	6225990	297
LBD 90 200 R3 FT	6534654	6226010	297
LBD 90 300 R3 A2	6534814	6226052	297
LBD 90 300 R3 FS	6532797	6225992	297
LBD 90 300 R3 FT	6534661	6226012	297
LBD 90 400 R3 A2	6534821	6226054	297
LBD 90 400 R3 FS	6532803	6225994	297
LBD 90 400 R3 FT	6534678	6226014	297
LBD 90 450 R3 FT	6534685	6226016	297
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LBD 90 750 R3 FT	6534715	6226022	297
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LCIS 1145 6 FT	6540525	6209825	270
LCIS 620 3 FS	6487578	6209610	256
LCIS 630 3 FS	6487585	6209612	256
LCIS 640 3 FS	6487592	6209614	256
LCIS 650 3 FS	6487608	6209616	256
LCIS 660 3 FS	6487615	6209618	256
		/pc.	
LDVG 110 FT	6464630	6216670	263
LDVG 60 FT	6464623	6208970	263
LEB 25 DD	6089116	6221216	294
LEB 25 FS	6164714	6221203	294
LEB 50 DD	6089239	6221259	294
LEB 50 FS	6164837	6221246	294
		price/m	
LG 112 VS 3 FS	5064480	6216404	268
LG 112 VS 3 FT	5065210	6216423	269
LG 112 VS 6 FS	5065289	6216442	271
LG 112 VS 6 FT	5065371	6216465	272
LG 113 VS 3 FS	5064497	6216407	268
LG 113 VS 3 FT	5065227	6216426	269
LG 113 VS 6 FS	5065319	6216445	271
LG 113 VS 6 FT	5065388	6216468	272
LG 114 VS 3 FS	5064503	6216410	268
LG 114 VS 3 FT	5065258	6216429	269
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MS4121P2000FS	5686262	1122918	452
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MS4121P6000A2	5697565	1122929	453
MS4121P6000A4	5697619	1122932	453
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MS4141 SK	5686200	1122900	462
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MS4141P6000FS	5686231	1122912	454
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MS4141PP1000FS	5697978	1122481	455
MS4141PP3000FS	5686248	1122914	455
MS4141PP3000FT	5050735	1122483	455
MS4141PP6000FT	5050742	1122487	455
MS4182P3000FT	5697985	1122671	456
MS4182P6000FT	5698029	1122673	456
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MS41HB M10x30 ZL	6490110	1148322	459
MS41HB M12x30 ZL	6490141	1148334	459
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MS41HB M12x60 ZL	6490172	1148338	459
MS41HB M8x30 ZL	6490066	1148310	459
MS41HBF M10x60FT	6490240	1148388	459
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MS41SN M10 ZL	6489879	1147214	456
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MS41SN M6 ZL	6489855	1147206	456
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MS41SNF M10 F	6489954	1147314	457
MS41SNF M6 F	6489930	1147306	457
MS41SNF M8 F	6489947	1147310	457
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MS5030P6000FT	5462491	1121472	452
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MS50HB M10x30 ZL	6489725	1148218	458
MS50HB M12x60 ZL	6489756	1148230	458
MS50HB M8x30 ZL	6489701	1148210	458
MS50SN M10 ZL	6489633	1147164	457
MS50SN M12 ZL	6489640	1147168	457
MS50SN M6 A4	6489657	1147172	457
MS50SN M6 ZL	6489619	1147156	457
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MSL4141P6000FS	5698166	1122974	454
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MSL4141PP1000FS	5697923	1123008	455
MSL4141PP1000FT	5697862	1123001	455
MSL4141PP3000A2	5698340	1123016	455
MSL4141PP3000FS	5698319	1123010	455
MSL4141PP3000FT	5697909	1123003	455
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MWA 12 21S FS	6636976	6424732	343
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MWAG 12 11 FS	6324736	6424600	345
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MWAG 12 31 FS	6325337	6424616	345
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MWAM 12 11 FS	5438526	6424550	344
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Mx 080705 CR3	6622610	2011381	523
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Mx 120805 CR3	6622658	2011386	523
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Mx 161008 CR3	6622665	2011389	523
Mx 161008 SGR	6030828	2011316	524
Mx 161609 CR3	6622672	2011392	523
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N 6-5-10/49	6411948	3498396	645
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RAA 150 FS	6213672	7002726	157
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RAA 310 FT	6812950	7120117	61
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RAA 330 FT	6813070	7120311	61
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RAA 610 A2	6821235	7136120	121
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RAA 610 FT	6813131	7121109	121
RAA 615 FS	6502639	6040411	121
RAA 615 FT	6027002	7121205	121
RAA 620 A2	6821297	7136133	121
RAA 620 FS	6379453	6040438	121
RAA 620 FT	6813193	7121210	121
RAA 630 A2	6821358	7136141	121
RAA 630 FS	6379514	6040446	121
RAA 630 FT	6813254	7121318	121
RAA 640 A2	6256877	7136242	122
RAA 640 FS	6212897	7002394	121
RAA 640 FT	6246373	7121407	121
RAA 650 A2	6256938	7136250	122
RAA 650 FS	6212958	7002416	121
RAA 650 FT	6246434	7121504	121
RAA 660 A2	6256990	7136269	122
RAA 660 FS	6213016	7002432	121
RAA 660 FT	6246496	7121601	121
RAA 810 FS	6819614	7002475	137
RAA 820 FS	6819676	7002491	137
RAA 830 FS	6819737	7002513	137
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RAAM 320 FS	5881513	6041022	55
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RAAM 610 FS	5878568	6041230	84
RAAM 610 FT	5878698	6041250	84
RAAM 615 FS	5878575	6041232	84
RAAM 615 FT	5878704	6041252	84
RAAM 620 FS	5878582	6041234	84
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RAAM 630 FS	5878629	6041236	84
RAAM 630 FT	5878759	6041257	84
RAAM 640 FS	5878636	6041238	84
RAAM 640 FT	5878766	6041259	84
RAAM 650 FS	5878643	6041240	84
RAAM 650 FT	5878773	6041261	84
RAAM 660 FS	5878681	6041242	84
RAAM 660 FT	5878780	6041263	84
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RB 45 320 FS	6052097	6043712	60
RB 45 330 FS	6052158	6043720	60
RB 45 610 FS	6052271	6043763	119
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RB 90 610 A2	6820870	7134122	120
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RB 90 610 FT	6814091	7125100	120
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RB 90 620 A2	6820931	7134130	120
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RB 90 660 FS	6211753	7001312	120
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RB 90 810 FS	6818891	7001762	137
RB 90 820 FS	6819317	7001789	137
RB 90 830 FS	6819379	7001800	137
RB 90 840 FS	6211999	7001819	137
RB 90 850 FS	6212057	7001835	137
RB 90 860 FS	6212118	7001851	137
RBM 45 310 FS	5877615	6041000	55
RBM 45 320 FS	5881285	6041002	55
RBM 45 330 FS	5881315	6041004	55
RBM 45 610 FS	5881537	6041040	83
RBM 45 610 FT	5881605	6041060	83
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RBM 90 320 FS	5881339	6041012	55
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RBM 90 615 FS	5881827	6041132	84
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RBM 90 640 FT	5881926	6041158	84
RBM 90 650 FS	5881865	6041140	84
RBM 90 650 FT	5881933	6041160	84
RBM 90 660 FS	5881872	6041142	84
RBM 90 660 FT	5881940	6041162	84
RBM 90 810 FS	5879886	6041490	130
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RBV 610 F FT	5476818	7007056	85
RBV 610 S FS	5047322	7007005	85
RBV 610 S FT	5703730	7007006	85
RBV 615 F FS	5047452	7007059	85
RBV 615 F FT	5811022	7007060	85
RBV 615 S FS	5047339	7007009	85
RBV 615 S FT	5811015	7007010	85
RBV 620 F FS	5047469	7007063	85
RBV 620 F FT	5703785	7007064	85
RBV 620 S FS	5047346	7007013	85
RBV 620 S FT	5703747	7007014	85
RBV 630 F FS	5047490	7007067	85
RBV 630 F FT	5863298	7007068	85
RBV 630 S FS	5047377	7007017	85
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RBV 640 S FS	5047384	7007021	85
RBV 640 S FT	5863380	7007022	85
RBV 650 F FS	5047513	7007075	85
RBV 650 F FT	5863311	7007076	85
RBV 650 S FS	5047391	7007025	85
RBV 650 S FT	5863397	7007026	85
RBV 660 F FS	5047520	7007079	85
RBV 660 F FT	5863328	7007080	85
RBV 660 S FS	5047407	7007029	85
RBV 660 S FT	5863403	7007030	85
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REV 110 FS	6066438	6067999	147
REV 110 FS	6066438	6067999	156
REV 35 FS	6066254	6067956	54
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REV 60 A2	6066490	6068022	82
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REV 60 DD	6337033	6069410	82
REV 60 DD	6337033	6069410	118
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RGBV 120 FS	6218653	7006640	137
RGBV 130 FS	6218714	7006667	137
RGBV 140 FS	6218776	7006683	137
RGBV 150 FS	6218837	7006705	137
RGBV 160 FS	5995869	7006717	137
RGBV 610 A2	6258499	7138113	87
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RGBV 610 FS	6217878	7006322	87
RGBV 610 FT	6229390	7079109	87
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RGBV 615 FS	6500352	7006330	87
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RGBV 615 FT	6984985	7079141	87
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RGBV 630 FS	6217991	7006365	87
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RGV 110 FS	6230655	7082037	147
RGV 110 FT	6230952	7082436	147
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RGV 35 FT	6230716	7082126	59
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RGV 60 FS	6230532	7082010	118
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RGV 85 FT	6230891	7082320	129
RGV 85 FT	6230891	7082320	136
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RK 615 FS	6051618	6043607	87
RK 620 FS	6051731	6043623	87
RK 620 FT	6991761	7113218	123
RK 630 FS	6051793	6043631	87
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RK 640 FS	6215416	7004397	88
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RKSM 610 FT	5903895	6047612	69
RKSM 615 FS	5391197	6047630	68
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RKSM 620 A2	5706144	6047640	70
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RKSM 640 A2	5706205	6047691	70
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RKSM 650 A2	5706243	6047721	70
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RLVK 60 FS	6065417	6067093	117
RLVK 60 FT	6065899	6067603	81
RLVK 60 FT	6065899	6067603	117
RLVKV 60 FS	6456154	6067101	117
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RLVL 110 FS	6065653	6067131	155
RLVL 110 FT	6066193	6067913	146
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RTM 320 FS	5915423	6041032	55
RTM 330 FS	5915713	6041034	55
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RTM 650 FS	5879107	6041330	84
RTM 650 FT	5879237	6041352	84
RTM 660 FS	5879114	6041332	84
RTM 660 FT	5879244	6041354	84
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RV 607 FS	6897070	6068150	330
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RWEB 1020 FS	6341818	7111804	138
RWEB 1030 FS	6341825	7111806	138
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RWEB 110 FS	6242771	7111096	147
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RWEB 120 FS	6242894	7111207	147
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RWEB 130 FS	6243013	7111304	147
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RWEB 310 FS	6241453	7108109	55
RWEB 310 FS	6241453	7108109	60
RWEB 320 FS	6241514	7108206	55
RWEB 320 FS	6241514	7108206	60
RWEB 330 FS	6241576	7108311	55
RWEB 330 FS	6241576	7108311	60
RWEB 605 DD	6988525	7107145	119
RWEB 610 DD	6982820	7106106	83
RWEB 610 DD	6982820	7106106	119
RWEB 610 FS	6241637	7109105	83
RWEB 610 FS	6241637	7109105	119
RWEB 615 DD	6308170	7106110	83
RWEB 615 DD	6308170	7106110	119
RWEB 615 FS	6241699	7109156	83
RWEB 615 FS	6241699	7109156	119
RWEB 620 DD	6982769	7106114	83
RWEB 620 DD	6982769	7106114	119
RWEB 620 FS	6241750	7109202	83
RWEB 620 FS	6241750	7109202	119
RWEB 630 DD	6982707	7106118	83
RWEB 630 DD	6982707	7106118	119
RWEB 630 FS	6241811	7109296	83
RWEB 630 FS	6241811	7109296	119
RWEB 640 DD	6024612	7106122	83
RWEB 640 DD	6024612	7106122	119
RWEB 640 FS	6241873	7109407	83
RWEB 640 FS	6241873	7109407	119

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		/pc.	
RWEB 650 DD	6024735	7106126	83
RWEB 650 DD	6024735	7106126	119
RWEB 650 FS	6241934	7109504	83
RWEB 650 FS	6241934	7109504	119
RWEB 660 DD	6034697	7106130	83
RWEB 660 DD	6034697	7106130	119
RWEB 660 FS	6241996	7109601	83
RWEB 660 FS	6241996	7109601	119
RWVL 35 FS	6065479	6067107	53
RWVL 35 FS	6065479	6067107	59
RWVL 35 FT	6065776	6067328	53
RWVL 35 FT	6065776	6067328	59
RWVL 60 A2	6066070	6067662	81
RWVL 60 A2	6066070	6067662	118
RWVL 60 FS	6065530	6067115	81
RWVL 60 FS	6065530	6067115	117
RWVL 60 FT	6065950	6067611	81
RWVL 60 FT	6065950	6067611	117
		price/100	
S16W A2	5923640	2046720	613
S16W A4	5923886	2046750	613
S16W ALU	5925743	2046002	617
S16W FT	5782148	2046593	612
S16W G	5924647	2046840	608
S16W SW	5782032	2046565	610
S20W A2	5923657	2046721	613
S20W A4	5923923	2046751	613
S20W ALU	5925774	2046003	617
S20W FT	5782155	2046594	612
S20W G	5924654	2046841	608
S20W SW	5782049	2046566	610
S25W A2	5923664	2046722	613
S25W A4	5923947	2046752	613
S25W ALU	5925781	2046004	617
S25W FT	5782162	2046595	612
S25W G	5924661	2046842	608
S25W SW	5782070	2046567	610
S32W A2	5923671	2046723	613
S32W A4	5923978	2046753	613
S32W ALU	5925804	2046005	617
S32W FT	5782209	2046596	612
S32W G	5924678	2046843	608
S32W SW	5782087	2046568	610
S40W A2	5923688	2046724	613
S40W A4	5923985	2046754	613
S40W ALU	5925835	2046006	617
S40W FT	5782216	2046597	612
S40W G	5924685	2046844	608
S40W SW	5782094	2046569	610
S50W A2	5923695	2046725	613
S50W A4	5923992	2046755	613
S50W ALU	5925842	2046007	617
S50W FT	5782223	2046598	612
S50W G	5924692	2046845	608
S50W SW	5782100	2046570	610
S63W A2	5923701	2046726	613
S63W A4	5924036	2046756	613
S63W ALU	5925859	2046008	617
S63W FT	5782261	2046599	612
S63W G	5924708	2046846	608
S63W SW	5782131	2046571	610
		price/m	
SB BKS FS	6147816	6049252	170
		/100 pc.	
SB MS 41 M8 FT	6624232	1124679	430
SB MS 41 M8 FT	6624232	1124679	463
SB16W A4	5924050	2046760	614
SB16W ALU	5925866	2046012	617
SB20W A4	5924104	2046761	614
SB20W ALU	5925897	2046013	617

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		/100 pc.	
SB25W A4	5924111	2046762	614
SB25W ALU	5925903	2046014	617
SB32W A4	5924173	2046763	614
SB32W ALU	5925910	2046015	617
SB40W A4	5924180	2046764	614
SB40W ALU	5925927	2046016	617
SB50W A4	5924197	2046765	614
SB50W ALU	5925965	2046017	617
SB63W A4	5924203	2046766	614
SB63W ALU	5925972	2046018	617
SBM32W ALU	5926214	2046045	616
SBN16 FT	6387953	2046816	612
SBN16 G	6387816	2046808	608
SBN16 SW	6388066	2046824	610
SBN20 FT	6387960	2046817	612
SBN20 G	6387823	2046809	608
SBN20 SW	6388073	2046825	610
SBN25 FT	6387991	2046818	612
SBN25 G	6387830	2046810	608
SBN25 SW	6388080	2046826	610
SBN32 FT	6388004	2046819	612
SBN32 G	6387847	2046811	608
SBN32 SW	6388127	2046827	610
SBN40 FT	6388011	2046820	612
SBN40 G	6387878	2046812	608
SBN40 SW	6388134	2046828	610
SBN50 FT	6388028	2046821	612
SBN50 G	6387885	2046813	608
SBN50 SW	6388141	2046829	610
SBN63 FT	6388059	2046822	612
SBN63 G	6387892	2046814	608
SBN63 SW	6388158	2046830	610
SBNM16 G	6388165	2046778	607
SBNM16 SW	6387700	2046793	609
SBNM20 FT	6387595	2046787	611
SBNM20 G	6388172	2046779	607
SBNM20 SW	6387717	2046794	609
SBNM25 FT	6387601	2046788	611
SBNM25 G	6388189	2046780	607
SBNM32 FT	6387632	2046789	611
SBNM32 G	6387526	2046781	607
SBNM40 FT	6387649	2046790	611
SBNM40 G	6387533	2046782	607
SBNM40 SW	6387762	2046797	609
SBNM50 FT	6387656	2046791	611
SBNM50 G	6387540	2046783	607
SBNM63 FT	6387663	2046792	611
		price/100	
SBR 15 A2K	6590872	6490282	744
		/100 pc.	
SBV 15 FS	6589609	6490950	744
SBV 8 A2	6589586	6490942	744
SBV 8 FS	6589579	6490940	744
		/pc.	
SDB 03 PC	6465743	2008840	553
SDB 03L PC	6465781	2008860	553
SDB 03L PS	6465705	2008820	553
SDB 05L PC	6465798	2008864	553
SDB 05L PS	6465712	2008824	553
SDB 09 PC	6465767	2008848	554
SDB 09L PC	6465804	2008868	554
SDB 09L PS	6465729	2008828	554
SDB 12 PC	6465774	2008852	555
SDB 12L PC	6465811	2008872	555
SDB 12L PS	6465736	2008832	554
SEB 85 FS	6568802	7083008	168

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		/pc.	
SF 140 11 FT	6295814	6356397	466
		/100 pc.	
SGR KS OR	5872900	6003758	246
		/pc.	
SH M10 FS	6608539	6015336	248
SH M10 FT	6951970	6015338	248
SHU M12 DD	5851868	6015324	248
SHU M12 FS	5851844	6015322	248
		price/pair	
SKH 110 OR	5668015	6222553	294
SKH 60 OR	5668008	6222537	263
SKH 60 OR	5668008	6222537	294
SKH 60 OR	5668008	6222537	308
SKHW 110 OR	5668022	6310398	194
SKHW 110 OR	5668022	6310398	294
		/100 pc.	
SKS 10x110 G	6348794	6418244	327
SKS 10x110 G	6348794	6418244	751
SKS 10x120 F	5505631	3160793	751
SKS 10x25 F	5257233	3160734	751
SKS 10x30 F	5257295	3160742	751
SKS 10x40 F	5257356	3160750	751
SKS 10x60 F	6202157	6408516	751
SKS 10x80 F	6437474	6418250	751
SKS 10x90 F	6518470	6418252	751
		price/m	
SKS 110 FS	6062171	6061109	150
SKS 110 FT	6062539	6061605	151
SKS 120 FS	6062232	6061206	150
SKS 120 FT	6062591	6061621	151
		/100 pc.	
SKS 12x100 F	6204496	6418295	751
SKS 12x110 F	6204557	6418317	751
SKS 12x130 F	6479535	6408478	751
SKS 12x30 F	5258070	3163091	751
SKS 12x40 F	5258131	3163113	751
SKS 12x40 G F	5317418	3164020	752
SKS 12x60 F	5258254	3163156	751
SKS 12x80 F	6204434	6418287	751
		price/m	
SKS 130 FS	6062294	6061303	150
SKS 130 FT	6062652	6061656	151
SKS 140 FS	6062355	6061400	150
SKS 140 FT	6062713	6061672	151
SKS 150 FS	6062416	6061508	150
SKS 150 FT	6062775	6061702	151
SKS 155 FS	6062478	6061559	150
SKS 605 FT	6820740	6056634	110
		price/m	
SKS 610 A2	6120550	6056735	109
SKS 610 FS	6060191	6056105	107
SKS 610 FT	6389957	6056636	108
SKS 615 FS	6389711	6056156	107
SKS 615 FT	6390014	6056644	108
SKS 620 A2	6120611	6056737	109
SKS 620 FS	6060252	6056202	107
SKS 620 FT	6390076	6056652	108
SKS 630 A2	6120673	6056739	109
SKS 630 FS	6060313	6056296	107
SKS 630 FT	6390137	6056679	108
SKS 640 A2	6120734	6056742	109
SKS 640 FS	6060375	6056407	107
SKS 640 FT	6060559	6056695	108
SKS 650 A2	6120796	6056744	109
SKS 650 FS	6060436	6056504	107
SKS 650 FT	6060610	6056717	108
SKS 660 A2	6120857	6056746	109
SKS 660 FS	6060498	6056601	107
SKS 660 FT	6060672	6056733	108
		/100 pc.	
SKS 6x12 F	5255857	3156494	750
SKS 6x20 F	5255970	3156516	750
SKS 6x30 F	5256038	3156524	750
		price/m	
SKS 810 FS	6061099	6058108	132
SKS 810 FT	6061457	6058620	133
SKS 820 FS	6061150	6058205	132

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SKS 820 FT	6061518	6058647	133
SKS 830 FS	6061211	6058302	132
SKS 830 FT	6061570	6058663	133
SKS 840 FS	6061273	6058396	132
SKS 840 FT	6061631	6058698	133
SKS 850 FS	6061334	6058507	132
SKS 850 FT	6061693	6058728	133
SKS 860 FS	6061396	6058604	132
SKS 860 FT	6061754	6058744	133
		/100 pc.	
SKS 8x16 F	5256571	3158624	751
SKS 8x20 F	5256632	3158632	751
SKS 8x30 F	5256694	3158640	751
SKS M10x100 ZL	6687541	3156774	750
SKS M10x20 ZL	6687442	3156758	750
SKS M10x30 ZL	6687480	3156760	750
SKS M10x40 ZL	6687497	3156762	750
SKS M10x50 ZL	6687503	3156764	750
SKS M10x60 ZL	6687510	3156766	750
SKS M10x70 ZL	6687527	3156768	750
SKS M10x80 ZL	6687534	3156770	750
SKS M12x100 ZL	6687602	3156799	750
SKS M12x30 ZL	6687558	3156788	750
SKS M12x40 ZL	6687565	3156790	750
SKS M12x50 ZL	6687572	3156792	750
SKS M12x60 ZL	6687589	3156794	750
SKS M12x80 ZL	6687596	3156796	750
SKS M6x16 ZL	6687336	3156706	750
SKS M6x20 ZL	6687343	3156708	750
SKS M6x30 ZL	6687350	3156710	750
SKS M6x40 ZL	6687367	3156712	750
SKS M6x55 ZL	6687701	3156715	750
SKS M6x60 ZL	6687374	3156716	750
SKS M8x20 ZL	6687381	3156728	750
SKS M8x30 ZL	6687398	3156730	750
SKS M8x40 ZL	6687404	3156732	750
SKS M8x50 ZL	6687411	3156734	750
SKS M8x60 ZL	6687428	3156736	750
SKS M8x80 ZL	6687435	3156738	750
		price/m	
SKSM 610 FS	5832485	6059456	73
SKSM 610 FT	5832607	6059473	74
SKSM 615 FS	5832492	6059458	73
SKSM 615 FT	5832614	6059475	74
SKSM 620 FS	5832508	6059460	73
SKSM 620 FT	5832621	6059477	74
SKSM 630 FS	5832546	6059462	73
SKSM 630 FT	5832669	6059479	74
SKSM 640 FS	5832553	6059464	73
SKSM 640 FT	5832676	6059481	74
SKSM 650 FS	5832560	6059466	73
SKSM 650 FT	5832683	6059483	74
SKSM 660 FS	5832591	6059468	73
SKSM 660 FT	5832713	6059485	74
SKSMU 610 A2	5830689	6059722	79
SKSMU 610 FS	5829843	6059688	77
SKSMU 610 FT	5829911	6059705	78
SKSMU 615 FS	5829850	6059690	77
SKSMU 615 FT	5829928	6059707	78
SKSMU 620 A2	5830702	6059726	79
SKSMU 620 FS	5829867	6059692	77
SKSMU 620 FT	5830634	6059709	78
SKSMU 630 A2	5830740	6059728	79
SKSMU 630 FS	5829874	6059694	77
SKSMU 630 FT	5830641	6059711	78
SKSMU 640 A2	5830757	6059730	79
SKSMU 640 FS	5829881	6059696	77
SKSMU 640 FT	5830658	6059713	78
SKSMU 650 A2	5830764	6059732	79
SKSMU 650 FS	5829898	6059698	77
SKSMU 650 FT	5830665	6059715	78
SKSMU 660 A2	5830795	6059734	79
SKSMU 660 FS	5829904	6059700	77
SKSMU 660 FT	5830672	6059717	78
SKSU 110 FS	6395231	6063403	152
SKSU 110 FT	6397754	6064795	153
SKSU 120 FS	6395293	6063438	152
SKSU 120 FT	6397877	6064833	153
SKSU 130 FS	6395354	6063454	152
SKSU 130 FT	6397990	6064884	153
SKSU 140 FS	6395415	6063470	152

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SKSU 150 FS	6395477	6063497	152
SKSU 150 FT	6398232	6064965	153
SKSU 610 FS	5060369	6063234	111
SKSU 610 FT	5069836	6064307	112
SKSU 620 FS	5060390	6063236	111
SKSU 620 FT	6050888	6064353	112
SKSU 630 FS	5060406	6063238	111
SKSU 630 FT	5069843	6064409	112
SKSU 640 FS	5060413	6063950	111
SKSU 640 FT	5069874	6064435	112
SKSU 650 FS	6063857	6063241	111
SKSU 650 FT	6308958	6064515	112
SKSU 660 FS	6063918	6063276	111
SKSU 660 FT	6397273	6064523	112
		/100 pc.	
SKT16W ALU	5957799	2047588	618
SKT20W ALU	5957805	2047589	618
SKT25W ALU	5957812	2047590	618
SKT32W ALU	5957829	2047591	618
SKT40W ALU	5957836	2047592	618
SKT50W ALU	5957843	2047593	618
SKTM20W ALU	5957744	2047605	618
SKTM25W ALU	5957751	2047606	618
SKTM32W ALU	5957768	2047607	618
SKTM40W ALU	5957775	2047608	618
SKTM50W ALU	5957782	2047609	618
		price/m	
SL 42 075 A2	5706922	7097080	280
SL 42 075 ALU	6509874	7099722	282
SL 42 100 A2	5706953	7097082	280
SL 42 100 ALU	6509881	7099724	282
SL 42 150 A2	5706960	7097084	280
SL 42 150 ALU	6509911	7099726	282
SL 42 200 A2	5706977	7097086	280
SL 42 200 ALU	6509928	7099728	282
SL 42 250 A2	5706984	7097088	280
SL 42 250 ALU	6509935	7099730	282
SL 42 300 A2	5707011	7097090	280
SL 42 300 ALU	6509942	7099732	282
SL 62 100 A2	5707028	7097094	284
SL 62 100 ALU	6509973	7099752	286
SL 62 200 A2	5707035	7097096	284
SL 62 200 ALU	6509980	7099754	286
SL 62 300 A2	5707042	7097098	284
SL 62 300 ALU	6509997	7099756	286
SL 62 400 A2	5707059	7097100	284
SL 62 400 ALU	6510009	7099758	286
SL 62 500 A2	5707066	7097102	284
SL 62 500 ALU	6510030	7099760	286
SL 62 600 A2	5707073	7097104	284
SL 62 600 ALU	6510047	7099762	286
		/pc.	
SLAA 11100 R3 FT	6445721	6225968	277
SLAA 11120 R3 FT	6445738	6225970	277
SLAA 1120 R3 FT	6445615	6225950	277
SLAA 1130 R3 FT	6445622	6225952	277
SLAA 1140 R3 FT	6445639	6225954	277
SLAA 1145 R3 FT	6445646	6225956	277
SLAA 1150 R3 FT	6445653	6225958	277
SLAA 1160 R3 FT	6445660	6225960	277
SLAA 1175 R3 FT	6445677	6225962	277
SLAA 1180 R3 FT	6445684	6225964	277
SLAA 1190 R3 FT	6445714	6225966	277
SLB 90 1120R3 FT	6443994	6225172	275
SLB 90 1130R3 FT	6444007	6225174	275
SLB 90 1140R3 FT	6444014	6225176	275
SLB 90 1145R3 FT	6444021	6225178	275
SLB 90 1150R3 FT	6444038	6225180	275
SLB 90 1160R3 FT	6444045	6225182	275
SLB 90 1175R3 FT	6444052	6225184	275
SLB 90 1180R3 FT	6444069	6225186	275
SLB 90 1190R3 FT	6444076	6225188	275

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SLB 90 42 075 A2	6516292	7098654	281
SLB 90 42 075 FT	6516469	7098614	279
SLB 90 42 075 SG	6516452	7098500	278
SLB 90 42 075ALU	6516759	7098684	283
SLB 90 42 100 A2	6515615	7098656	281
SLB 90 42 100ALU	6516476	7098686	283
SLB 90 42 150 A2	6515622	7098658	281
SLB 90 42 150ALU	6516483	7098688	283
SLB 90 42 200 A2	6515639	7098660	281
SLB 90 42 200ALU	6516506	7098690	283
SLB 90 42 250 A2	6515677	7098662	281
SLB 90 42 250ALU	6516513	7098692	283
SLB 90 42 300 A2	6515684	7098664	281
SLB 90 42 300ALU	6516520	7098694	283
SLB 90 62 100 A2	6515769	7099150	285
SLB 90 62 100ALU	6516537	7099186	287
SLB 90 62 200 A2	6515790	7099152	285
SLB 90 62 200ALU	6516544	7099188	287
SLB 90 62 300 A2	6515813	7099154	285
SLB 90 62 300ALU	6516568	7099190	287
SLB 90 62 400 A2	6515806	7099156	285
SLB 90 62 400ALU	6516575	7099192	287
SLB 90 62 500 A2	6515820	7099158	285
SLB 90 62 500ALU	6516582	7099194	287
SLB 90 62 600 A2	6515851	7099160	285
SLB 90 62 600ALU	6516599	7099196	287
SLB90 11100R3 FT	6449095	6225190	275
SLB90 11120R3 FT	6444083	6225194	275
SLGBE 11100 FT	6445240	6225548	278
SLGBE 11120 FT	6445257	6225550	278
SLGBE 1120 FT	6445158	6225530	278
SLGBE 1130 FT	6445165	6225532	278
SLGBE 1140 FT	6445172	6225534	278
SLGBE 1145 FT	6445189	6225536	278
SLGBE 1150 FT	6445196	6225538	278
SLGBE 1160 FT	6445202	6225540	278
SLGBE 1175 FT	6445219	6225542	278
SLGBE 1180 FT	6445226	6225544	278
SLGBE 1190 FT	6445233	6225546	278
		price/m	
SLH 62 3000 A2	5708681	7103650	460
SLL 620 CPS 4 FS	5433965	6010620	307
SLL 630 CPS 4 FS	5433972	6010622	307
SLL 640 CPS 4 FS	5433989	6010624	307
SLL 650 CPS 4 FS	5434023	6010626	307
SLL 660 CPS 4 FS	5434030	6010628	307
SLM 50 C40 2 FT	6146116	6010466	310
SLM 50 C40 3 FT	6146178	6010474	310
SLM 50 C40 4 FT	6146239	6010482	310
SLM 50 C40 5 FT	6146291	6010490	310
SLS 80 C40 2 FT	6358632	6013384	315
SLS 80 C40 3 FT	6358694	6013392	315
SLS 80 C40 4 FT	6011230	6013406	315
SLS 80 C40 5 FT	6011292	6013414	315
SLS 80 C40 6 FT	6011353	6013422	315
		/pc.	
SLT 11100 R3 FT	6444700	6225368	276
SLT 11120 R3 FT	6444717	6225372	276
SLT 1120 R3 FT	6444526	6225350	276
SLT 1130 R3 FT	6444533	6225352	276
SLT 1140 R3 FT	6444540	6225354	276
SLT 1145 R3 FT	6444588	6225356	276
SLT 1150 R3 FT	6444595	6225358	276
SLT 1160 R3 FT	6444601	6225360	276
SLT 1175 R3 FT	6444649	6225362	276
SLT 1180 R3 FT	6444656	6225364	276
SLT 1190 R3 FT	6444663	6225366	276
SLV 42 ALU	6519224	7103552	279
SLV 42 ALU	6519224	7103552	280
SLV 62 ALU	6698127	7103586	286
		price/m	
SLZ 100 A2	5708285	7098192	290
SLZ 100 ALU	6510054	7099772	292
SLZ 200 A2	5708292	7098194	290

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		price/m	
SLZ 200 ALU	6510061	7099774	292
SLZ 300 A2	5708308	7098196	290
SLZ 300 ALU	6510092	7099776	292
SLZ 400 A2	5708339	7098198	290
SLZ 400 ALU	6510108	7099778	292
SLZ 500 A2	5708346	7098200	290
SLZ 500 ALU	6510115	7099780	292
SLZ 600 A2	5708353	7098202	290
SLZ 600 ALU	6510122	7099782	292
SLZ L 100 A2	5707813	7098062	288
SLZ L 200 A2	5707868	7098066	288
SLZ L 300 A2	5707875	7098068	288
SLZ L 400 A2	5707882	7098070	288
SLZ L 500 A2	5707929	7098072	288
SLZ L 600 A2	5707936	7098074	288
		/pc.	
SLZB 90 100 A2	6515943	7099030	290
SLZB 90 100 ALU	6516605	7099090	291
SLZB 90 100 SG	6516322	7098976	289
SLZB 90 200 A2	6515974	7099032	290
SLZB 90 200 ALU	6516629	7099092	291
SLZB 90 200 SG	6516339	7098978	289
SLZB 90 300 A2	6515981	7099034	290
SLZB 90 300 ALU	6516636	7099094	291
SLZB 90 300 SG	6516346	7098980	289
SLZB 90 400 A2	6515998	7099036	290
SLZB 90 400 ALU	6516643	7099096	291
SLZB 90 400 SG	6516353	7098982	289
SLZB 90 500 A2	6516001	7099038	290
SLZB 90 500 ALU	6516650	7099098	291
SLZB 90 500 SG	6516360	7098984	289
SLZB 90 600 A2	6516032	7099040	290
SLZB 90 600 ALU	6516667	7099100	291
SLZB 90 600 SG	6516384	7098986	289
SLZB L 90 100 A2	6519064	7099241	288
SLZB L 90 100 FT	6518975	7099221	287
SLZB L 90 100 SG	6518906	7099201	287
SLZB L 90 200 A2	6519088	7099243	288
SLZB L 90 200 FT	6518999	7099224	287
SLZB L 90 200 SG	6518920	7099203	287
SLZB L 90 300 A2	6519095	7099245	288
SLZB L 90 300 FT	6519002	7099226	287
SLZB L 90 300 SG	6518937	7099205	287
SLZB L 90 400 A2	6519101	7099247	288
SLZB L 90 400 FT	6519033	7099228	287
SLZB L 90 400 SG	6518944	7099208	287
SLZB L 90 500 A2	6519118	7099249	288
SLZB L 90 500 FT	6519040	7099230	287
SLZB L 90 500 SG	6518951	7099210	287
SLZB L 90 600 A2	6519125	7099251	288
SLZB L 90 600 FT	6519057	7099232	287
SLZB L 90 600 SG	6518968	7099212	287
		price/100	
SM16W FT	5781424	2046533	611
SM16W G	5924852	2046861	607
SM16W SW	5781028	2046500	609
SM20W ALU	5926108	2046033	616
SM20W FT	5781431	2046534	611
SM20W G	5924869	2046862	607
SM20W SW	5781066	2046501	609
SM25W ALU	5926139	2046034	616
SM25W FT	5781448	2046535	611
SM25W G	5924876	2046863	607
SM25W SW	5781073	2046502	609
SM32W ALU	5926146	2046035	616
SM32W FT	5781486	2046536	611
SM32W G	5924883	2046864	607
SM40W FT	5781493	2046537	611
SM40W G	5924890	2046865	607
SM40W SW	5781127	2046505	609
SM50W FT	5781509	2046538	611
SM50W G	5924906	2046866	607
SM50W SW	5781134	2046506	609
SM63W FT	5781547	2046540	611
SM63W G	5924913	2046867	607

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		/100 pc.	
SQ M6	5016069	2146509	658
SQ-10 LGR	5595359	2146053	658
SQ-12 LGR	5595410	2146061	658
SQ-15 LGR	5595472	2146096	658
SQ-17 LGR	5595533	2146118	658
SQ-20 LGR	5595656	2146134	658
SQ-25 LGR	5595717	2146207	658
SQ-28 LGR	5595779	2146215	658
SQ-32 LGR	5595830	2146258	658
SQ-36 LGR	5204275	2146290	658
SQ-40 LGR	5595892	2146320	658
SQ-47 LGR	5204398	2146363	658
SQ-51 LGR	5595953	2146444	658
SQ-59 LGR	5204510	2146487	658
		/pc.	
SSE SSLB 100 FS	6632879	6049290	170
SSE SSLB 200 FS	6632886	6049292	170
SSE SSLB 300 FS	6632893	6049294	170
SSE SSLB 400 FS	6632909	6049296	170
SSE SSLB 500 FS	6632916	6049298	170
SSE SSLB 600 FS	6632923	6049300	170
SSLB 100 DD	6095247	7070306	158
SSLB 100 DD	6095247	7070306	179
SSLB 100 DD	6095247	7070306	185
SSLB 100 FS	6079971	7070205	158
SSLB 100 FS	6079971	7070205	179
SSLB 100 FS	6079971	7070205	185
SSLB 150 DD	6095308	7070310	158
SSLB 150 DD	6095308	7070310	179
SSLB 150 DD	6095308	7070310	185
SSLB 150 FS	6094820	7070209	158
SSLB 150 FS	6094820	7070209	179
SSLB 150 FS	6094820	7070209	185
SSLB 200 DD	6095360	7070314	158
SSLB 200 DD	6095360	7070314	179
SSLB 200 DD	6095360	7070314	185
SSLB 200 FS	6094882	7070213	158
SSLB 200 FS	6094882	7070213	179
SSLB 200 FS	6094882	7070213	185
SSLB 300 DD	6095421	7070318	158
SSLB 300 DD	6095421	7070318	179
SSLB 300 DD	6095421	7070318	185
SSLB 300 FS	6094943	7070217	158
SSLB 300 FS	6094943	7070217	179
SSLB 300 FS	6094943	7070217	185
SSLB 400 DD	6095483	7070322	158
SSLB 400 DD	6095483	7070322	179
SSLB 400 DD	6095483	7070322	185
SSLB 400 FS	6095001	7070221	158
SSLB 400 FS	6095001	7070221	179
SSLB 400 FS	6095001	7070221	185
SSLB 500 DD	6095544	7070326	158
SSLB 500 DD	6095544	7070326	179
SSLB 500 DD	6095544	7070326	185
SSLB 500 FS	6095063	7070225	158
SSLB 500 FS	6095063	7070225	179
SSLB 500 FS	6095063	7070225	185
SSLB 600 DD	6095667	7070334	158
SSLB 600 DD	6095667	7070334	179
SSLB 600 DD	6095667	7070334	185
SSLB 600 FS	6095186	7070233	158
SSLB 600 FS	6095186	7070233	179
SSLB 600 FS	6095186	7070233	185
		/100 pc.	
SSP 20-40 M6 A2	6342174	1486242	424
SSP 20-40 M6 A4	6342181	1486244	424
SSP 20-40 M6 FT	6342167	1486238	423
SSP 20-40 M8 A2	6342211	1486292	424
SSP 20-40 M8 A4	6342228	1486294	424
SSP 20-40 M8 FT	6342204	1486288	423
SSP 6-21 M6 A2	6342136	1486234	423
SSP 6-21 M6 FT	6342112	1486232	423

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SSP 6-21 M8 A4	6342198	1486286	423
SSP 6-21 M8 FT	6342129	1486282	423
		/pc.	
SSV A2	6064816	6066054	340
SSV FT	6064755	6066046	340
STA BKRS 100 FT	6695096	6044541	171
STA BKRS 200 FT	6695089	6044543	171
STA BKRS 300 FT	6695102	6044545	170
STA BKRS 400 FT	6695119	6044547	170
STA BKRS 500 FT	6695126	6044551	170
STA BKRS 600 FT	6695133	6044553	170
		/pc.	
STP Z 1010 FS	6341726	6044581	171
STP Z 1020 FS	6341733	6044583	171
STP Z 1030 FS	6341740	6044585	171
		price/m	
STP Z 10300 FS	6341795	6044596	171
		/pc.	
STP Z 1040 FS	6341757	6044587	171
STP Z 1050 FS	6341764	6044589	171
STP Z 1060 FS	6341771	6044591	171
SV A2	6065233	6066933	341
SV DD	6084432	6066941	341
		/100 pc.	
SV16W A4	5924210	2046770	614
SV16W ALU	5925989	2046022	617
SV16W FT	5782384	2046620	612
SV16W G	5924784	2046854	608
SV16W SW	5781776	2046582	610
SV20W A4	5924258	2046771	614
SV20W ALU	5926016	2046023	617
SV20W FT	5782391	2046621	612
SV20W G	5924791	2046855	608
SV20W SW	5781783	2046583	610
SV25W A4	5924272	2046772	614
SV25W ALU	5926023	2046024	617
SV25W FT	5782407	2046622	612
SV25W G	5924807	2046856	608
SV25W SW	5781790	2046584	610
SV32W A4	5924296	2046773	614
SV32W ALU	5926030	2046025	617
SV32W FT	5782445	2046623	612
SV32W G	5924814	2046857	608
SV32W SW	5781806	2046585	610
SV40W A4	5924302	2046774	614
SV40W ALU	5926047	2046026	617
SV40W FT	5782452	2046624	612
SV40W G	5924821	2046858	608
SV40W SW	5781844	2046586	610
SV50W A4	5924333	2046775	614
SV50W ALU	5926078	2046027	617
SV50W FT	5782469	2046625	612
SV50W G	5924838	2046859	608
SV50W SW	5781851	2046587	610
SV63W A4	5924340	2046776	614
SV63W ALU	5926085	2046028	617
SV63W FT	5782490	2046626	612
SV63W G	5924845	2046860	608
SV63W SW	5781868	2046588	610
SVM16W G	5924999	2046875	607
SVM16W SW	5781295	2046522	609
SVM20W DN	5781929	2046554	611
SVM20W G	5925002	2046876	607
SVM20W SW	5781301	2046523	609
SVM25W DN	5781967	2046556	611
SVM25W G	5925019	2046877	607
SVM32W DN	5781974	2046557	611

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		/100 pc.	
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SVM40W DN	5781981	2046558	611
SVM40W G	5925033	2046879	607
SVM40W SW	5781363	2046526	609
SVM50W DN	5782018	2046559	611
SVM50W G	5925040	2046880	607
SVM63W G	5925057	2046881	607
SZ-B 18/0x142	6429486	3498752	648
T 100	5246794	2007077	479
T 100 HD TR	5985945	2007752	489
T 100 KL	5441212	2007436	483
T 100 M25-M32	5470632	2007081	479
T 100 OE	5246855	2007255	485
T 100 OE HD TR	5985983	2007772	490
T 100 RW	5286677	2007533	479
T 160	5246800	2007093	480
T 160 HD TR	5985952	2007754	489
T 160 KL	5682189	2007440	483
T 160 M32	5470649	2007097	480
T 160 OE	5246862	2007271	485
T 160 OE HD TR	5985990	2007774	490
T 160 RW	5286684	2007541	480
T 25	5246770	2007029	478
T 25 KL	5441168	2007430	482
T 25 RW	5286615	2007509	478
T 250	5246817	2007109	481
T 250 KL	5682196	2007444	483
T 250 OE	5246879	2007287	486
T 250 OE HD LGR	5985921	2007736	488
T 250 RW	5286721	2007554	481
T 350	5246824	2007125	481
T 350 HD TR	5985976	2007758	489
T 350 KL	5682202	2007448	484
T 350 OE	5246886	2007303	486
T 350 RW	5286738	2007568	481
T 40	5246756	2007045	478
T 40 KL	5441175	2007432	482
		/pc.	
T 40 KVM	6440085	2363012	528
		/100 pc.	
T 40 OE	5246831	2007223	485
T 40 RO-LGR	5303244	2007630	478
T 40 RW	5286622	2007517	478
T 60	5246787	2007061	479
T 60 hars	6286539	2010007	483
		/100 pc.	
T 60 HD TR	5985846	2007750	489
T 60 KL	5441182	2007434	482
T 60 M20	5885399	2007910	487
T 60 M25	6610136	2007926	487
T 60 M25 RO-LGR	6610143	2007927	487
T 60 OE	5246848	2007239	485
T 60 RW	5286660	2007525	479
TK 213	5145936	1484702	422
		price/pair	
TKH-L-25 FT	6579259	6355812	431
		/100 pc.	
TKS 213-25	5145998	1484818	422
TKS 213-32	5146056	1484826	422
		price/pair	
TKS-L-25 FT	6579075	6355808	431
TKS-S-30 ZL	6677696	6355798	431
		/pc.	
TPB 100 A2	5523673	6357516	413
TPB 100 FS	5523666	6357506	327
TPB 100 FS	5523666	6357506	413
TPB 180 A2	6859078	6357524	413
TPB 180 FS	6859085	6357522	413

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Always indicate the item number when ordering.

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TPD 145 FT	5076858	6363861	397
TPD 245 FS	6198672	6363814	396
TPD 245 FT	5076865	6363865	397
TPD 345 FS	6198733	6363822	396
TPD 345 FT	5076896	6363869	397
TPD 445 FS	5460381	6363826	396
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TPDG 145 A2	5617747	6365989	400
TPDG 145 FS	6511754	6365906	398
TPDG 145 FT	5076902	6365977	399
TPDG 195 A2	5617754	6365991	400
TPDG 195 FS	6042609	6365914	398
TPDG 245 A2	5617761	6365993	400
TPDG 245 FS	6511815	6365922	398
TPDG 245 FT	5076919	6365981	399
TPDG 345 A2	5617778	6365995	400
TPDG 345 FS	6984329	6365949	398
TPDG 345 FT	5076926	6365985	399
TPS 3000 FS	6282739	6364802	444
TPS 445 FS	6199334	6364322	390
TPS 545 FS	6199396	6364349	390
TPS 645 FS	6199457	6364365	390
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TPSA 145 A2	5733157	6364871	391
TPSA 145 FS	6198979	6364101	392
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TPSA 195 FT	6555673	6364683	393
TPSA 245 A2	5733164	6364876	391
TPSA 245 FS	6199099	6364209	392
TPSA 245 FT	6473953	6364667	393
TPSA 345 A2	5733171	6364881	391
TPSA 345 FS	6199273	6364306	392
TPSA 345 FT	6474011	6364675	393
TPSAG 145 A2	5617785	6366145	404
TPSAG 145 FS	6627554	6366015	394
TPSAG 145 FT	5076957	6366131	395
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TPSAG 195 FS	6627615	6366023	394
TPSAG 195 FT	5076964	6366135	395
TPSAG 245 A2	5617808	6366148	404
TPSAG 245 FS	6545353	6366031	394
TPSAG 245 FT	5076971	6366139	395
TPSAG 345 A2	5617815	6366149	404
TPSAG 345 FS	6545292	6366066	394
TPSAG 345 FT	5076988	6366143	395
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TPSG 3000 FT	5424925	6366093	445
		/100 pc.	
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TR M10 1M A2	5023579	3141312	754
TR M10 1M G	5253396	3141209	327
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TR M10 1M G	5253396	3141209	754
TR M10 2M A2	6096909	3141339	413
TR M10 2M A2	6096909	3141339	754
TR M10 2M G	5123583	3141140	327
TR M10 2M G	5123583	3141140	412
TR M10 2M G	5123583	3141140	754
TR M12 1M A2	5594437	3141314	413
TR M12 1M A2	5594437	3141314	754
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TR M8 2M G	5119982	3141136	412
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TSG 110 DD	5694700	6062335	146
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TSG 110 DD	5694700	6062335	190
TSG 110 DD	5694700	6062335	197
TSG 110 FS	5694588	6062122	146
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TSG 135 FS	5694595	6062132	185
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TSG 30 DD	5694663	6062314	53
TSG 30 DD	5694663	6062314	59
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TSG 30 FS	5694496	6062050	53
TSG 30 FS	5694496	6062050	59
TSG 30 FS	5694496	6062050	208
TSG 45 A2	5694441	6062025	80
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TSG 45 DD	5694670	6062321	80
TSG 45 DD	5694670	6062321	115
TSG 45 DD	5694670	6062321	213
TSG 45 DD	5694670	6062321	265
TSG 45 FS	5694489	6062033	80
TSG 45 FS	5694489	6062033	115
TSG 45 FS	5694489	6062033	213
TSG 45 FS	5694489	6062033	265
TSG 60 A2	5694557	6062084	80
TSG 60 A2	5694557	6062084	116
TSG 60 DD	5694687	6062327	80
TSG 60 DD	5694687	6062327	116
TSG 60 DD	5694687	6062327	135
TSG 60 FS	5694540	6062068	80
TSG 60 FS	5694540	6062068	116
TSG 60 FS	5694540	6062068	135
TSG 85 DD	5694694	6062331	129
TSG 85 DD	5694694	6062331	136
TSG 85 DD	5694694	6062331	146
TSG 85 DD	5694694	6062331	155
TSG 85 DD	5694694	6062331	179
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TSG 85 DD	5694694	6062331	274
TSG 85 FS	5694571	6062114	129
TSG 85 FS	5694571	6062114	136
TSG 85 FS	5694571	6062114	146
TSG 85 FS	5694571	6062114	155
TSG 85 FS	5694571	6062114	179
TSG 85 FS	5694571	6062114	195
TSG 85 FS	5694571	6062114	219
TSG 85 FS	5694571	6062114	274
TSG100Z BKRS FS	6341788	6062390	139
TSG110Z BKRS FS	6147779	6062391	155
		/pc.	
TSGV A2	5694724	6067970	53
TSGV A2	5694724	6067970	59
TSGV A2	5694724	6067970	80
TSGV A2	5694724	6067970	116
TSGV A2	5694724	6067970	129
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UG 30-WA-D	6715862	2003732	536
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US 3 20 FS	6221776	6342302	376
US 3 200 A2	5705772	6342466	376
US 3 200 FS	6224296	6342338	376
US 3 30 FS	6222018	6342304	376
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