VBS | Catalogue 2012/2013

OBO BETTERMANN

Connection and fastening systems

THINK CONNECTED.

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Use the direct line to OBO Customer Service! On the Service Hotline +49 (0)2373 89-1500, we are available every day from 7.30 a.m. to 5.00 p.m. for any questions about the OBO product range for electrical installations. The newly structured OBO Customer Services can offer you the full works:

- Competent contacts from your region
- All the information on the OBO product range
- Knowledgeable advice on special application topics
- Quick, direct access to all the technical data of the OBO products – we also want to provide the best in customer relations!

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OBO VBS seminars: First-hand knowledge

With a comprehensive programme of training courses and seminars on the subject of connection and fastening systems, OBO is able to support its customers with specialist knowledge from a single source. Alongside the basic theoretical principles, the programme also deals with practical implementation in everyday applications. Special calculation and application examples round off the comprehensive programme of knowledge transfer.

Invitations to tender, product information and datasheets

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
- Information sheets
- Datasheets

These documents are continually updated and can be downloaded at no charge at any time from the Internet download area at
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Contact corrosion

Contact corrosion between two different metals poses a considerable risk to the load capacity and lifespan of the components used.

Height of the potential difference
The level of contact corrosion is primarily determined 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 condensate 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 at the work, 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.

Potential difference

Normal potential		Practical voltage series, water pH 6		Practical voltage series, artificial Sea water pH 7.5	
Metal	mV	Metal	mV	Metal	mV
Copper	+340	Titanium	136	Nickel	1
Lead	-126	Brass MS 63	100	Brass MS 63	32
Tin	-140	Copper	94	Copper	-35
Nickel	-230	Nickel	73	RF steel 1.4301	-90
Iron	-440	RF steel	-129	Titanium	-156
Zinc	-763	Aluminium	-214	Lead	-304
Titanium	-1630	Hard chromium	-294	Hard chromium	-336
Aluminium	-1660	Tin 98	-320	Steel	-380
Magnesium	-2370	Lead 99.9	-328	Aluminium	-712
Steel	-395				
Zinc	-852				

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Contact corrosion

Land climate

Material component (large)		Material construction element (small)					
OBO designation	Basic material Coating	FT	VA	AL	CU	MS	Za-mak
Steel, galvanised (FT, FS, DD, G)	DD11/Zn, S234(St37)/Zn, ST4-2/Zn, St500-2/Zn, StW22/Zn, DX51D/Zn	0	0	0	2	1	0
Stainless steel V2A, V4A, V5A	1.4301, 1.4310, 1.4401, 1.4404, 1.4571, 1.4529	0	0	1	1	1	0
Aluminium Al	AlMg3, AlMgSi0.5	0	0	0	2	1	0
Copper Cu	E-Cu S7, F24, Se-Cu(2.0070), SF-Cu F24, St50-2	1	1	1	0	1	2
Brass Ms1	CuZn39Pb3, CuZn40Pb2	0	1	1	1	0	2
Brass MS2	CuZn37	0	2	1	1	0	2
Die-cast zinc Zamak ZnAlCu1	Z410(GD-ZnAl4Cu1)	1	1	0	3	1	0

Legend
0 No risk for contact corrosion
1 Low risk
2 Risk in case of small area ration (area of non-precious metal / area of precious metal)
3 High risk

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Contact corrosion

Industrial atmosphere

Material component (large)		Material construction element (small)					
OBO designation	Basic material Coating	FT	VA	AL	CU	MS	Zamak
Steel, galvanised (FT, FS, DD, G)	DD11/Zn, S234(St37)/Zn, ST4-2/Zn, St500-2/Zn, StW22/Zn, DX51D/Zn	0	0	1	3	2	0
Stainless steel V2A, V4A, V5A	1.4301, 1.4310, 1.4401, 1.4404, 1.4571, 1.4529	0	0	1	1	1	0
Aluminium Al	AlMg3, AlMgSi0.5	1	1	0	2	2	0
Copper Cu	E-Cu S7, F24, Se-Cu(2.0070), SF-Cu F24, St50-2	2	2	3	0	1	2
Brass Ms1	CuZn39Pb3, CuZn40Pb2	1	1	2	1	0	1
Brass MS2	CuZn37	1	1	3	1	0	1
Die-cast zinc Zamak ZnAlCu1	Z410(GD-ZnAl4Cu1)	0	0	0	3	2	0

Legend
0 No risk for contact corrosion
1 Low risk
2 Risk in case of small area ration (area of non-precious metal / area of precious metal)
3 High risk

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Contact corrosion

Sea climate

Material component (large)		Material construction element (small)					
OBO designation	Basic material Coating	FT	VA	AL	CU	MS	Zamak
Steel, galvanised (FT, FS, DD, G)	DD11/Zn, S234(St37)/Zn, ST4-2/Zn, St500-2/Zn, StW22/Zn, DX51D/Zn	0	1	3	3	2	1
Stainless steel V2A, V4A, V5A	1.4301, 1.4310, 1.4401, 1.4404, 1.4571, 1.4529	1	0	3	1	1	0
Aluminium Al	AlMg3, AlMgSi0.5	3	1	0	2	2	0
Copper Cu	E-Cu S7, F24, Se-Cu(2.0070), SF-Cu F24, St50-2	2	2	3	0	1	2
Brass Ms1	CuZn39Pb3, CuZn40Pb2	1	1	3	1	0	1
Brass MS2	CuZn37	1	1	3	1	0	1
Die-cast zinc Zamak ZnAlCu1	Z410(GD-ZnAl4Cu1)	0	0	0	3	2	2

Legend
0 No risk for contact corrosion
1 Low risk
2 Risk in case of small area ration (area of non-precious metal / area of precious metal)
3 High risk

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Surface testing and corrosion categories

Surface testing/salt spray mist test
All the system components must show sufficient resistance against corrosion in agreement with the KTS standard, DIN EN 61537. The minimum zinc layer thicknesses are determined through a measurement. The grouping into the appropriate class is located at the right of the table. The top of the table shows the area of application and the zinc loss to be expected according to DIN EN ISO 12944.

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Surface testing and corrosion categories

Corrosion categories to DIN EN ISO 12944

Corrosion category	Typical environment, inside	Typical environment, outside	Corrosion load	Average zinc loss
C 1	Heated buildings with neutral atmospheres, e.g. offices, shops, schools, hotels	-	Insignificant	<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, boatsheds 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 heavy 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 condensation and with high levels of impurities	Coastal or offshore areas with salt load	Very strong (sea)	> 4.2 to 8.4 µm/a

Classification of corrosion resistance (from the draft of DIN 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 275 degrees according to EN 10327 and EN 10326
4	Pre-galvanised to 350 degrees according to EN 10327 and EN 10326
5	Galvanised to a zinc coating thickness of (minimum) 45 µm according to ISO 1461
6	Galvanised to a zinc coating thickness of (minimum) 55 µm according to ISO 1461
7	Galvanised to a zinc coating thickness of (minimum) 70 µm according to ISO 1461
8	Galvanised to a zinc coating thickness of (minimum) 85 µm according to ISO 1461 (usually high-alloy silicon steel)
9A	Rustproof steel, manufactured according to ASTM: A 240/A 240M – 95 a designation S30403 or EN 10088 degree 1-4301 without finishing **
9B	Rustproof steel, manufactured according to ASTM: A 240/A 240M – 95 a designation S31603 or EN 10088 degree 1-4301 without finishing
9C	Rustproof steel, manufactured according to ASTM: A 240/A 240M – 95 a designation S30403 or EN 10088 degree 1-4301 with finishing **
9D	Rustproof steel, manufactured according to ASTM: A 240/A 240M – 95 a designation S31603 or EN 10088 degree 1-4404 with finishing **

* 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

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Surfaces for use in internal areas

Whether indoors or outdoors, in aggressive atmospheres or under special hygienic conditions: OBO can offer the perfect surface and materials for your connection and fastening system, no matter what the requirements may be. OBO connection and fastening systems 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. In addition, OBO connection and fastening systems are available in stainless steel.

Indoor use
For applications in indoor areas, OBO can offer connection and fastening systems with galvanisation or strip galvanisation. They are particularly suited to dry atmospheres without any impact from aggressive pollutants.

Electro-galvanisation
- Electrolytic galvanisation in accordance with DIN EN 12329
- Average coating thickness approx. 2.5–10 µm
- According to RoHS guideline

Components: profile rails, clamp clips and small parts such as bolts, washers and nuts.

Strip galvanisation
- Hot-dip galvanised according to the strip-galvanising method in accordance with DIN EN 10346 (formerly DIN EN 10327)
- Average coating thickness approx. 20 µm
- Joints in the metal are protected by cathodic corrosion protection up to a thickness of 2.0 mm

Components: metal products such as profile rails and mounting components.

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Surfaces for use in external areas

Outdoor use
OBO can offer versions with hot dip galvanisation and double-dip galvanisation for outdoor and wet room use.

Hot-dip galvanisation
- Hot galvanisation using the dipping method according to DIN EN ISO 1461
- Coating thickness to DIN EN ISO 1461 approx. 40–60 µm
- Any interfaces added at a later date must also be galvanised to protect against corrosion

Components: Sheet steel products such as cable trays and welded components such as supports and brackets

Double-dip galvanisation
- Hot dipping with zinc-aluminium coating in accordance with DIN EN 10327
- Average coating thickness approx. 23 µm
- Joints in the metal are protected by cathodic corrosion protection up to a thickness of 2.0 mm

Components: Metal products such as covers, barrier strips and punched parts

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Surfaces for use in tunnels, food or chemical industries

Applications: Tunnel construction, food or chemical industries
There are also OBO stainless steel systems for special hygiene and quality requirements for special visual criteria for open wiring.

SS304 stainless steel
- OBO Code: V2A
- European material number: 1.4301
- American material designation: 304
- Welded components are additionally passivated
- Unwelded components are rinsed and degreased

Components: V2A selection programme with the title "V2A stainless steel systems"

V4A stainless steel
- OBO Code: V4A
- European material number: 1.4571
- American material designation: 316 / 316 T
- Welded components are additionally passivated
- Unwelded components are rinsed and degreased

Components: V4A selection programme with the title "V4A stainless steel systems"

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Surfaces for special visual requirements or special environmental loads

Applications with specific optical requirements or special environmental conditions

Colour-coated cable support systems 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

- Cable support system in FT (hot-dip galvanised version)
- All RAL colours available
- Coating of the visible surfaces and/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 line and IT)

Colour-coated systems are not indicated specially in this catalogue. You can obtain details for these systems by contacting our telephone hotline on +49 (0)2373 89-1500.

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UV and weather resistance

Protected and unprotected installations outdoors

Outdoor installations should always be viewed particularly critically with regard to the mounting locations and the selection of the installation materials. It is important to include the environment conditions and influences in the product selection in advance.

UV and weather resistance for outdoor installations

Besides UV radiation, installations outdoors must also take other environmental influences into account. Here, it is necessary to determine the exact environmental conditions. Factors such as maximum temperatures, regularity of (extreme) temperature changes, humidity and the location of use/mounting (housing, industry, town, region, continent) all have their role to play here. The problem is that there is no standardised testing method for the resistance of installation materials under different environmental influences. Therefore outdoor installations near dumps, chemical or petrochemical plants, sewage plants, etc. must be given special attention before mounting.

Caution!!!

All the T series boxes are UV-resistant.

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Labelling of halogen-free materials

Halogen-free installation materials
Events such as the fire at Düsseldorf Airport, in which people were killed by the extreme smoke development, have made us more sensitive, not just to the areas of function maintenance and fire protection systems, but also to standard installation materials. The result is the increasing demand for halogen-free plastics. Halogen-free installation should/-must 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 case 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". The DIN-VDE specification does not explicitly require halogen-free installation systems as yet, but OBO Bettermann can, nevertheless, offer a wide range of halogen-free articles. This means that, if there is a fire, the risk to people and property can be reduced to a minimum.

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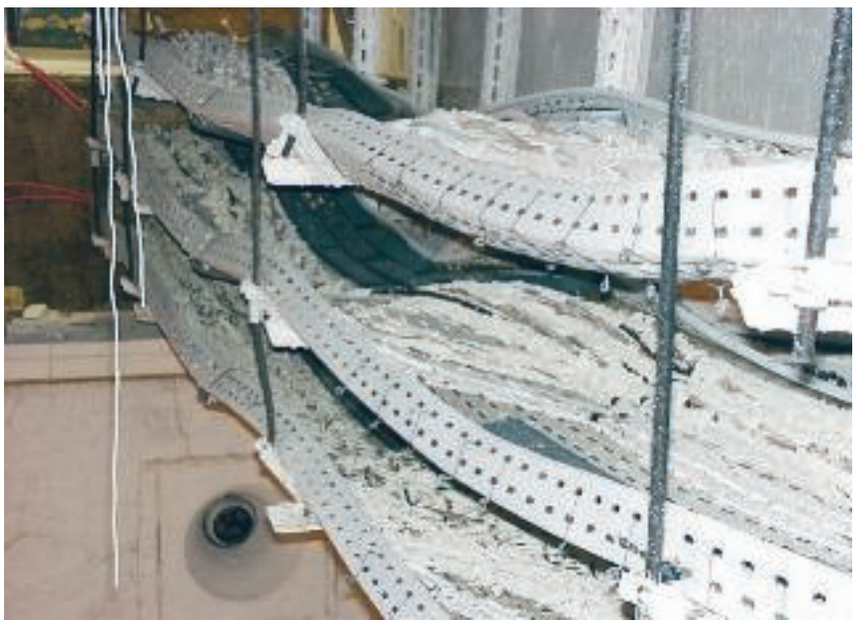
Function maintenance for electrical systems



Safety in case of fire

A lot of people, a lot of safety

Function maintenance is particularly important in buildings regularly frequented by large numbers of people. These include public buildings such as schools, hospitals, meeting places, civic buildings and underground stations, but also industrial plants, high-rise buildings, shopping centres and large car parks.

30 minutes: Function maintenance for an evacuation

The first 30 minutes after the start of a fire are decisive when clearing the affected building. During this time, function maintenance must be guaranteed for the following units:

- Safety lighting systems
- Lifts with fire control
- Fire alarm systems
- Alarm systems and systems to issue instructions to visitors and employees
- Fire extraction systems

90 minutes: Function maintenance for improved fire-fighting

To support fire-fighting operations, it is imperative that certain technical equipment is supplied with sufficient power even up to 90 minutes after a fire breaks out in a building. This equipment includes:

- Systems to increase the pressure of the water for fighting the fire
- Mechanical smoke extraction and smoke protection pressure systems
- Fire brigade lifts, bed lifts in hospitals

Individual laying systems

With the individual laying systems, OBO Bettermann can offer a range of practical, flexible mounting options for electrical installations with function maintenance. The systems are suited to vertical and horizontal installation and are approved for the fire protection classes E30 and E90. Standardised supporting constructions as defined in the testing standard, DIN 4102 Part 12, include: The laying of cables with individual clips and the laying of cables with profile rails, clamp clips and a long trough.

Fire loads of installation systems

According to the valid MLAR, there is no longer a need to specify the fire loads for electrical installations in emergency and escape routes, as a fire load of 0 kWh is always required.

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Function maintenance for electrical systems

Maintain the function!
To ensure that emergency and escape routes and important technical equipment such as emergency lighting, fire alarm systems and smoke exhaust systems remain usable in case of fire, it is absolutely essential to provide special protection for the power supply for these systems. The use of special cables and laying systems means that it is possible to maintain the power supply, even in the case of fire, thus guaranteeing the function maintenance. You can find detailed information on the subject of fire protection in the OBO BSS fire protection catalogue.

Standard support type, clamp clip, type 2056
Standard support construction consisting of clamp clip without long trough for individual laying or bundling cables. Brief information:
- Wall or ceiling mounting
- Vertical or horizontal mounting
- Rail mounting: max. 0.3 m
- Anchor spacing in the rail: max. 0.25 m
- Individual cable assignment: diameters of up to 100 mm possible
- Assignment with bunched cables: max. three cables with max. diameter 25 mm

Cable tidy, cable-specific laying type
Cable-specific laying type with collective brackets for individual laying, mounting on wall or ceiling Brief information:

Type 2031/M 15
- Mounting distance: max. 0.5 m
- Cable assignment: max. 1.1 kg/m

Type 2031/M 30
- Mounting distance: max. 0.5 m
- Cable assignment: max. 2.5 kg/m

Type 2031/M 70
- Mounting distance: max. 0.8 m
- Cable assignment: max. 6.0 kg/m

Standard support type, clamp clip, type 732/733
Standard support construction consisting of spacer clips for individual laying or bundling cables. Brief information:
- Wall or ceiling mounting
- Vertical or horizontal mounting
- Mounting spacing: max. 0.3 m
- Individual cable assignment: diameters of up to 50 mm possible
- Assignment with bunched cables: max. three cables with max. diameter 25 mm

Pressure clip, cable-specific laying type
Cable-specific laying type for individual laying, mounting on the ceiling. Brief information:

Type 2033 M
- Mounting distance: max. 0.5 m

Type 2034 M
- Mounting distance: max. 0.5 m

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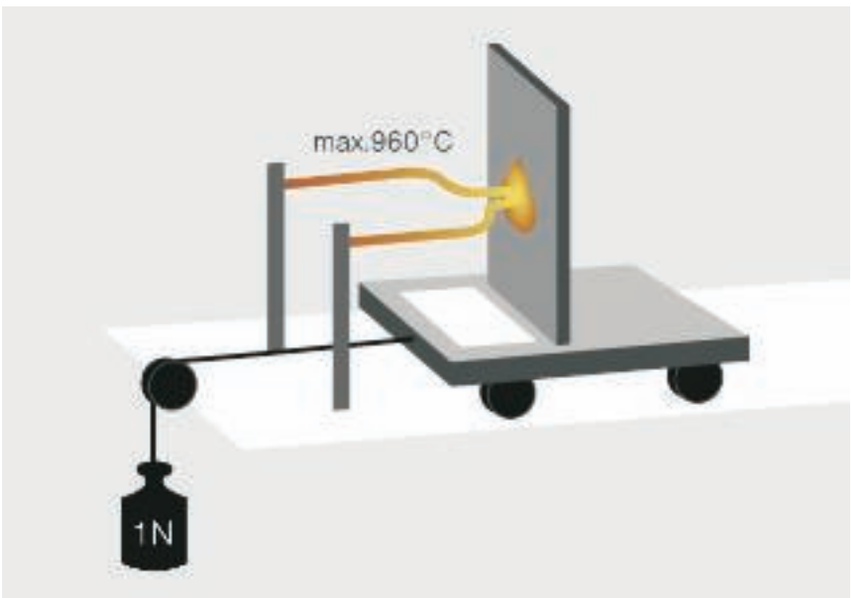
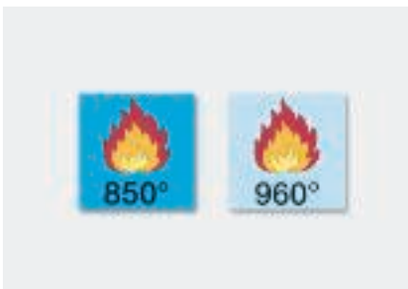
Flame-resistance/fire-resistance





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. End products, in the sense of the standard, are electrical resources and modules and components. 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 30 seconds at the latest, the object, if it has caught light, must have extinguished again, in order to specify the flame resistances.

Types of installation systems

Types of bodies on test	Surface-mounted	Concealed	Flush-mounted	Cavity wall/furniture	Concrete structure	Installation duct
	Testing temperatures in °C					
Connection sockets	650	650	750	850	650	750
Accessory sockets and device connection sockets	750	650	-	850	650	750
Ceiling lights, connection sockets	750	650	-	850	650	750
Wall light connection sockets	750	650	-	850	650	750
Device connection sockets	750	650	-	850	650	750
Connection sleeves	750	-	-	-	-	750
Insulation sections, which support active parts	960	-	-	-	-	-
Cover for installation sockets	750	-	-	-	-	-

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VDE and CE marks

VDE
The VDE is the Association for Electrical, Electronic and Information Technologies, their study and the technologies and applications based upon them. The VDE Testing and Certification Institute is a nationally and internationally accredited institute in the field of testing and certification of electro-technical devices, components and systems. These electrical products are tested for their safety, electromagnetic compatibility and additional product properties. Tests and certificates are important for consumer protection and for the marketing of our products. As a neutral and independent institution, the VDE Testing and Certification Institute is a global partner for the electrical engineering, electronics and information technology industries. All the relevant tests for the different product properties are anchored in the VDE.

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 mark of quality, but simply a declaration by the manufacturer that they have complied with the legal requirements and the codes of practice.

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IP protection rating

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 (see table below) 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.
- The second digit (see table on the right) specifies the protection against water. It specifies how far the resource is protected against incoming water and the resulting damage.

Protection rating

First code digit	Against access to the dangerous parts	Against solid foreign bodies
0	Protected against access to dangerous parts with the back of the hand	Not protected
1	Protected against access to dangerous parts with a finger	Protected against solid foreign bodies of 50 mm diameter and larger
2	Protected against access to dangerous parts with a tool	Protected against solid foreign bodies of 12.5 mm diameter and larger
3	Protected against access to dangerous parts with a wire	Protected against solid foreign bodies of 2.5 mm diameter and larger
4	Protected against access to dangerous parts with a wire	Protected against solid foreign bodies of 1.0 mm diameter and larger
5	Protected against access to dangerous parts with a wire	Dust-protected
6	Protected against access to dangerous parts with a wire	Dust-proof

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IP protection rating

Protection rating against the entry of water with a damaging impact

Second code digit	Short description	Definition
0	Not protected	-
1	Protected against water droplets	Droplets falling vertically may have no damaging impact.
2	Protected against water droplets when the housing is tilted to up to 15°	Droplets falling vertically may not have a damaging impact, if the housing is tilted to angle of 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 may not have any damaging impact.
4	Protected against spray water	Water spraying the housing from any direction may not have any damaging impact.
5	Protected against water jets	Jets of water pointing at the housing from any direction may not have any damaging impact.
6	Protected against strong water jets	Strong jets of water pointing at the housing from any direction may 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	If the housing is continuously underwater, then water may not enter in such volumes as would have a damaging impact and this shall be subject to conditions to be agreed between the manufacturer and the user. However, the conditions are more difficult to fulfil than for number 7.

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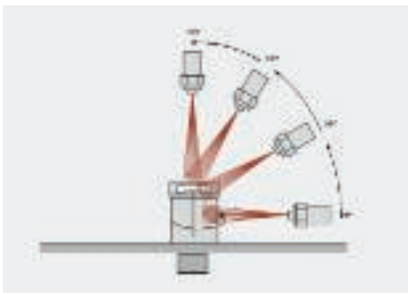
IPX9 protection rating



Besides the protection ratings according to IEC 60529 (DIN EN 60529, VDE 0470-1:2000-09) "Degrees of protection provided by enclosures (IP code)", there are other standards, which describe the testing of the protection rating. One such standard is ISO 20653:2005-08. This has been created more or less exactly from the German standard DIN 40050-9: 1993-05 "Road vehicles; degrees of protection (IP code); protection against foreign objects; water and contact; electrical equipment".
DIN 40050-9 is intended particularly for road vehicles, as installations are often subjected to spray water here.
But higher protection ratings are also required in electrical installations, as, in many areas, cleaning with high pressure equipment is part of everyday work. Examples of this are in the foods industry or in car washes. If steam washers are also used, then the protection rating must also be effective at increased temperatures.
You can find a comparison of DIN 50050 Part 9 and DIN EN 60529.

Comparison DIN 40050 Part 9 - DIN EN 60529

DIN 40050 Part 9	DIN EN 60529	Meaning: protection against ingress of water
0	0	No protection
1	1	Protection against falling water droplets
2	2	Protection against falling water droplets when the housing is tilted to up to 15°
3	3	Protection against falling spray water to up to 60° from the vertical
4	4	Protection against spray water from all sides
5	5	Protection against water jet from any angle
6	6	Protection against strong water jets
6K		Protection against strong water jets under increased pressure, specific for road vehicles
7	7	Protection against temporary submersion
8	8	Protection against continuous submersion
9		Protection against water during high pressure and steam cleaning, specifically for road vehicles

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IK code

IK code
The IK code to DIN EN 50102 indicates the protection rating of housing 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]	-	015	020	035	0.50	0.70	1	2	5	10	20

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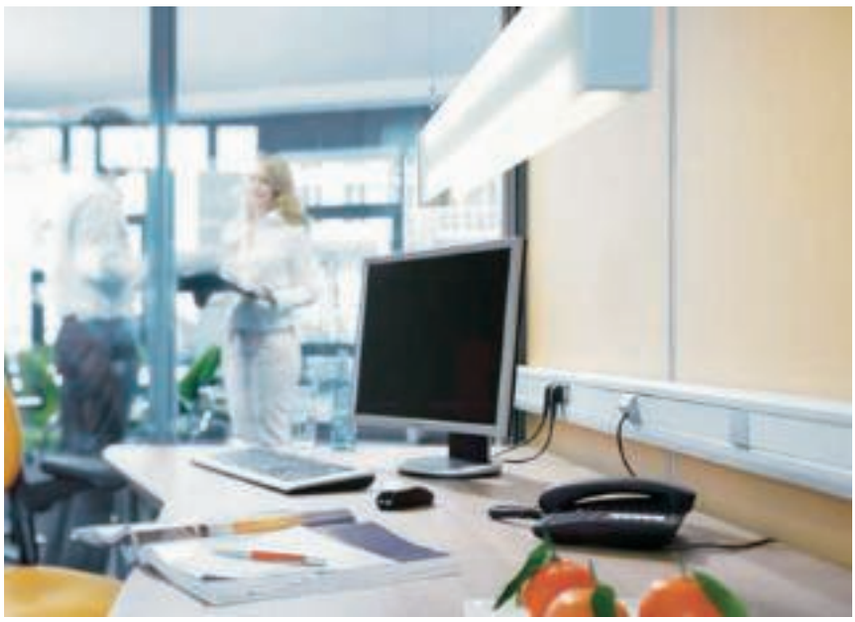
Protection classes of electrical resources



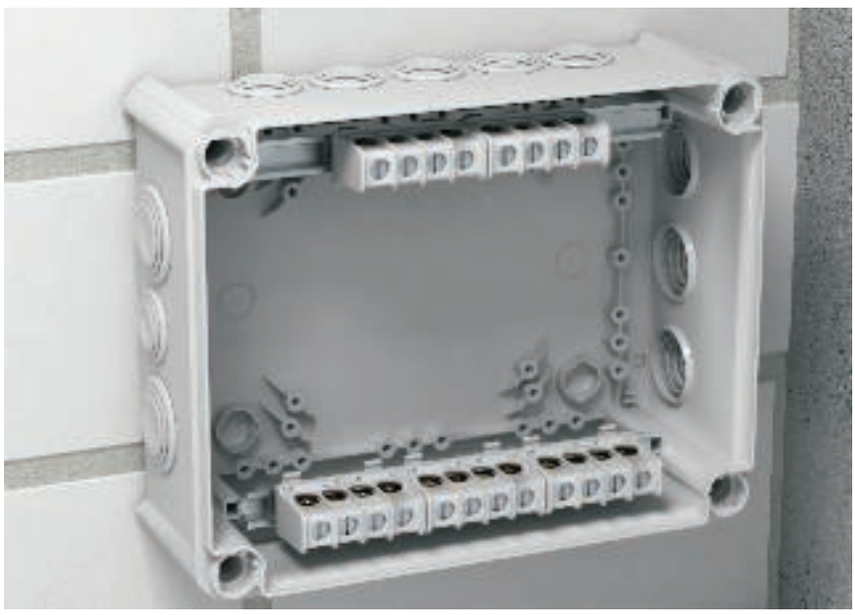
Protection classes according to VDE 0140

Protection classes of electrical resources

DIN VDE 0140 defines the protection classes as follows:

- Protection class I: Resources with protective conduction connection (protection measure through protective conductor connection on housing)
- Protection class II: Resources with protective insulation (protection measure through insulation)
- Protection class III: Resource with protective low voltage (SELV-PELV, protection through measured voltages max. 25/50 V AC and max. 60/120 V DC)

Empty plastic housings correspond to protection class II, housings made of metal/metal plating must be intended for the connection of a protection conductor and thus meet protection class I.



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Labelling of electrical resources

Explanations from the standard

Electrical designations
When using junction boxes, connection sockets and connection terminals, the resources are assigned nominal values, as defined in VDE 0100 Part 200. 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).

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

Rated current
Largest approved current at the connection point.

Rated voltage
Greatest approved voltage at the connection point.

Number of poles
Number of connection points of the clamp connector.

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

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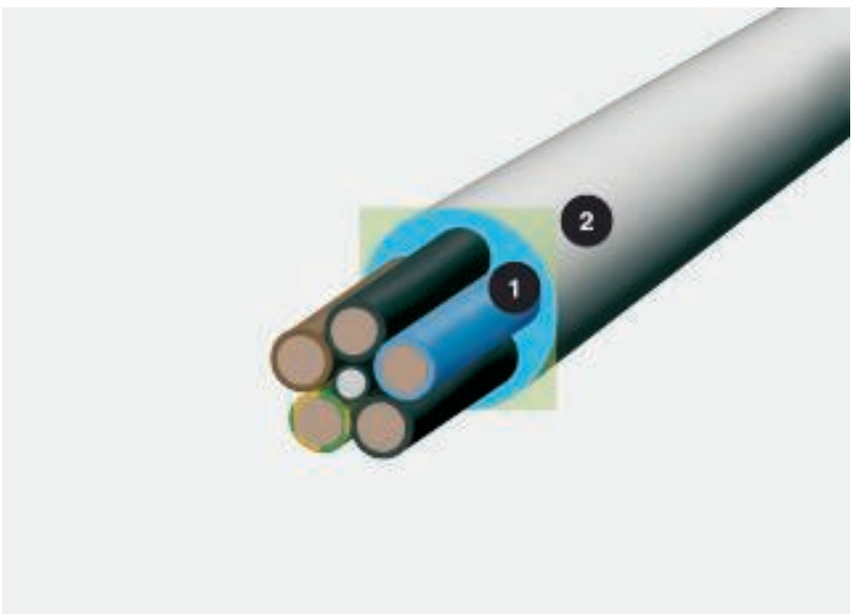
Important information on the external dimension data



Cable diameter and space required; 1 = diameter in mm, 2 = space required in cm²

Cable sizes, outer diameters PG and metric 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 combined in the cable. Fastening clips are given with their maximum span distance as a nominal size in mm. To determine the correct fastening clip for the component to be fastened, you can find the interplay between the PG sizes and the metric data in the table.

Calculation using 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.

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Important information on the external dimension data

Cable diameter and space required

External diameter in mm	PG sizes	External diameter in mm	Metric sizes
12	PG 7	12.5	M 12
13	PG 7	12.5	M 12
15	PG 9	15.2	M 16
16			M 16
18	PG 11	18.6	M 16/M 20
19	PG 11	18.6	M 16/M 20
20	PG 13.5	20.4	M 20
21	PG 13.5	20.4	M 20/M 25
22	PG 16	22.5	M 20/M 25
23	PG 16	22.5	M 20/M 25
24			M 20/M 25
25			M 25
28	PG 21	28.3	M 25/M 32
32			M 32
37	PG 29	37	M 32/ M 40
40			M 40
47	PG 36	47	M 40/M 50
50			M 50
54	PG 42	54	M 50/M 63
59	PG 48	59.3	M 50/M 63
63			M 63

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How can I work out the volume of cables?

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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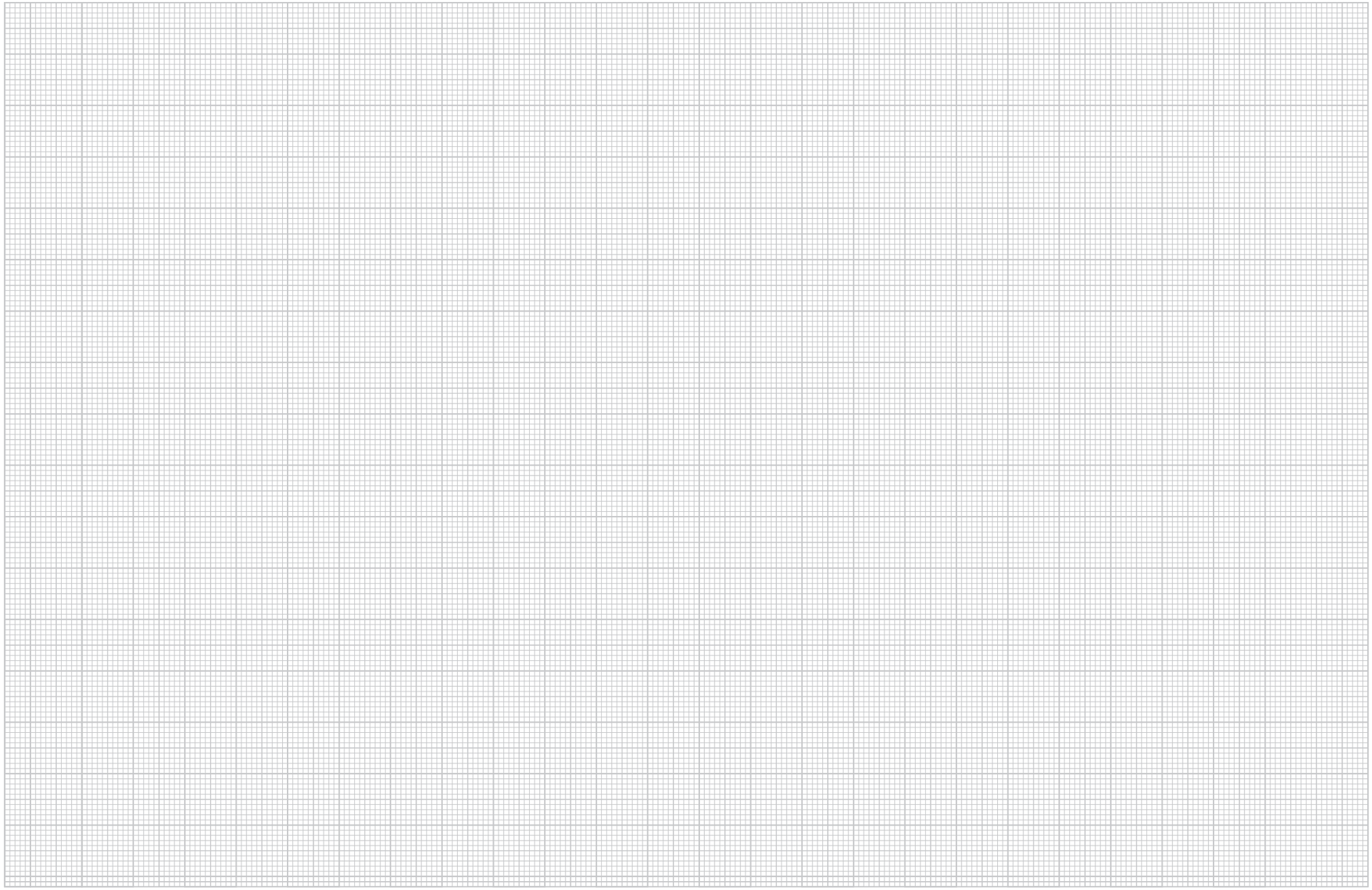

Planning aids, junction box systems

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Condensation water in housings

Condensation water in closed housings

Condensation water in tightly closed housings, such as junction boxes, is a particular problem during regular and strong temperature deviations. Temperature changes outside the housing means that excess humidity in a very tightly closed junction box cannot escape and it condenses within the housing. This creates the impression that the housing is not tightly closed. If this humidity is not removed, then, in the worst case, it may cause damage to the electrical connection. Therefore, try to avoid installations in areas with extreme temperature variations.

OBO junction boxes have pre-marked openings, which can be opened to minimise and even prevent the formation of condensation water. The pre-marked 4 mm openings are located on the base of the housing. If the premarked openings are pierced, then the change in temperature and humidity inside and outside the housing takes place almost at the same time. According to DIN VDE 010-520 – Erection of heavy current systems for rated voltages of up to 1,000 V "Measures must be taken to remove water, if water or water condensation can occur within cable systems". In the case of installation with high tightness requirements, alternative measurements may need to be taken.

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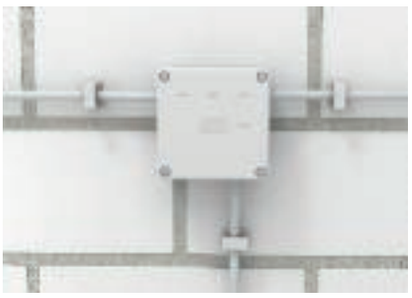
Mounting of junction boxes



Mounting junction boxes on combustible constructions or materials
The VdS directive 2023 specifies that, on combustible substrates, electrical connections of cables carrying voltage may only be made with terminals in suitable electrical installation boxes according to DIN VDE 0606. The housing must be closed to the mounting surface and fulfil the requirements of DIN VDE 0606.

Protected and unprotected installation in damp and wet areas and rooms and outdoor systems
In damp and wet areas, such as in industrial kitchens, laundries, cold rooms, etc. electrical resources must have a protection rating of at least IP X1 (protected against water droplets).
In areas in which water jets can be expected, the resources must have a protection rating of at least IPX5 (water jet protection) to protect electrical resources. DIN EN 60529 provides detailed information on the necessary protection ratings.
With unprotected installations outdoors (DIN VDE 0100-737), such as on railway platforms, crane systems, external walls of buildings, etc., the resources used must meet the protection rating IPX3. With protected installations outdoors (DIN VDE 0100-737), such as in garage entrances, on buildings with an appropriate roof overhang, etc., resources must have at least the protection rating IPX1 (protected against water droplets).

Comment: With installations outdoors, pollutants in the surrounding atmosphere may limit the suitability of the selected articles.

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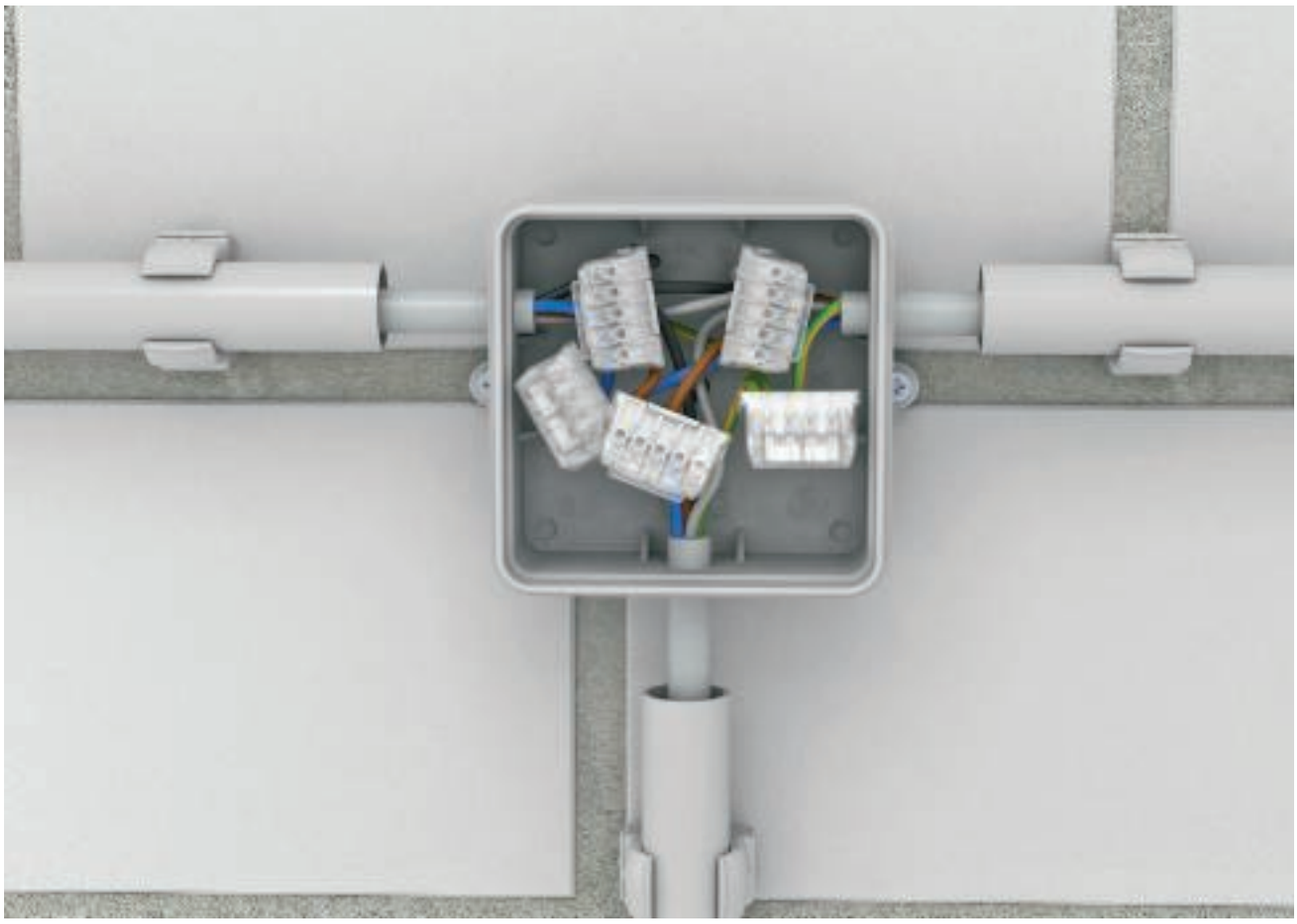
Mounting aid, junction box, A series



The classic in installing wet-room junction boxes: the OBO A series made of halogen-free, thermoplastic material. Both internally and externally, the screwless, tight clamshell allows quick, safe mounting. The A series junction boxes are available with and without terminal strips. Besides the standard colour, light grey (RAL 7035) and the pure white (RAL 9010) variants for increased visual requirements, the red variant is available for signal cables such as telecommunications cables or other signal state monitors. All the junction boxes are made of halogen-free material and are flame-resistant to VDE 0471/DIN IEC 695 Part 2-1, test temperature 750 °C.

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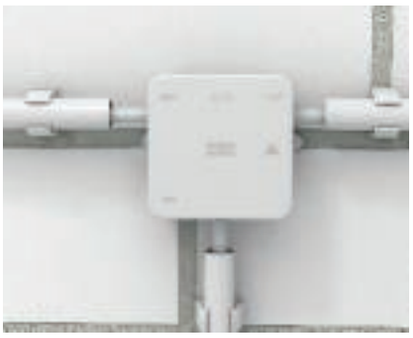
Mounting aid, junction box, A series



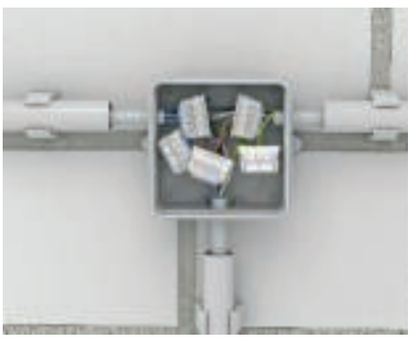
A series application, wall mounting
Complete mounting, A series with installation pipe and Quick clip.

Fastening the A series
The stable external fastenings mean that the junction box can be installed quickly and easily.

Cable entry, A series
The pre-marked cable entries can be opened with a knife or, using the supplied insertion point, directly penetrated with the cable.

Insertion point application
Place the insertion point on the end of the wire. Push the cable with the point through the pre-marked entries.

Cover mounting, A series
The covers can be placed on the bases without the need for tools.



Space for wiring work
The A series junction boxes offer sufficient space for wiring with screw or screwless terminals.

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Mounting aid, junction box, B 9/T

The OBO B9/T junction box consists of two halogen-free, thermoplastic components:

- a soft one for the seal (membrane) in the cable entry
- a hard one for the housing.

This two-component technology stands for perfect tightness and stability. The protection rating IP67 is thus achieved when the membrane is directly penetrated with cables. A cable gland for strain relief can also be inserted in the threads pre-marked in side walls.

The smooth external walls allow an arrangement of multiple junction boxes without spaces – even with retroinstallation. All the fastening dimensions are shown clearly on the back, allowing exact fastening.

The B9/T is a universal problem-solver with virtually unlimited applications – even in permanently wet environments.

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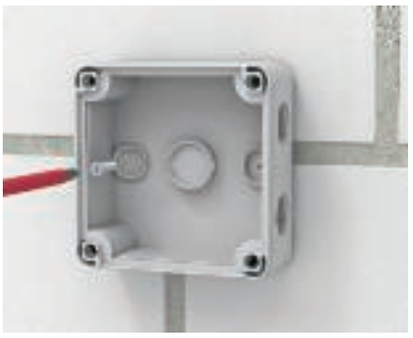
Mounting aid, junction box, B 9/T

B9T application, wall mounting
Junction box available with 3-cap nut cable gland in set.



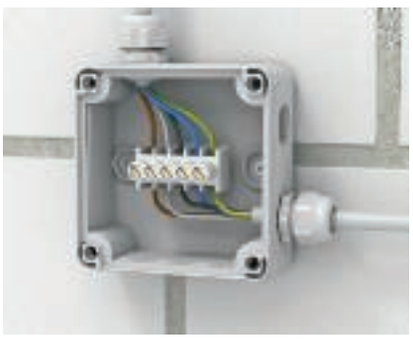
Fastening the B 9/T
The fastening holes in the floor area have a soft membrane, which fixes the fastening screws and maintains the protection rating.

Cable entry
The soft membrane of the B 9/T is just pushed through directly with the cable, without any additional tools.

Tightness of the cable entry
The membrane tightly seals the cable. The protection rating remains intact.

Installation with V-TEC gland
Torsion-protected and with strain relief: V-TEC glands with a short thread offer a secure hold.

Installation with V-TEC gland
The V-TEC cable gland with short connection thread is simply screwed into the available box thread. The soft membrane need not be removed.



Earthing terminal
There is the option of mounting an earthing terminal in the junction box.

Cover mounting
The cover is placed on the base.

Cover mounting
The bolts are closed using a screwdriver.

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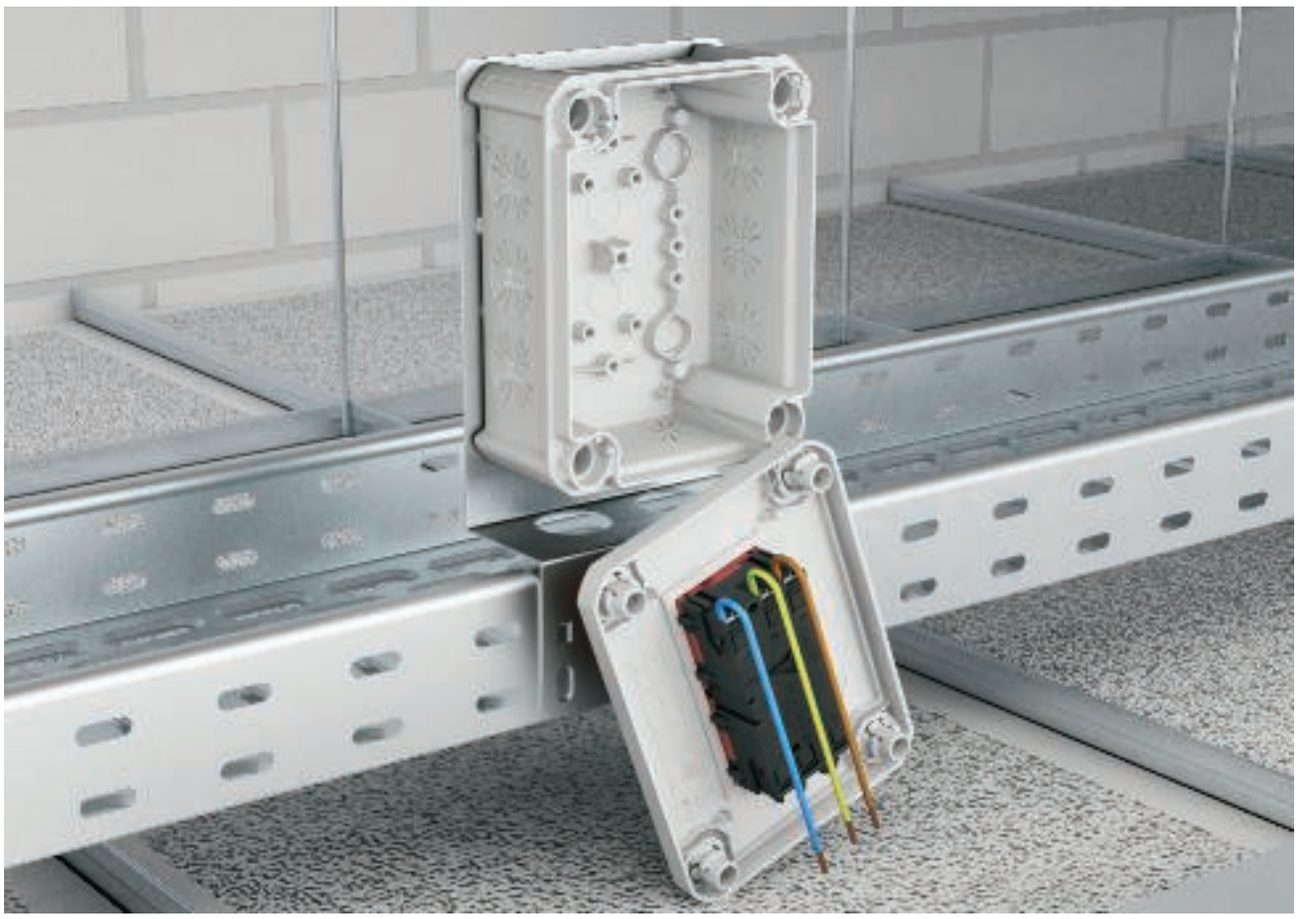
Mounting aid, junction box, T series



The T series from OBO is made from a halogen-free, thermoplastic material and is available in various coloured versions. The T series has openings in the side walls which are closed with 4 to 24 cable plug-in seals (depending on the size of the T box).
Irrespective of their size, colour or equipment, all the junction boxes of the T series are made from UV-stabilised material.
In addition, variants are available in a flame-resistant version for up 960 °C and with a red signal cover. Cables can be installed directly in the junction box through plug-in seals. The plug-in seals are flat and countersunk in the housing, meaning that they do not protrude over the edge. This means that the junction boxes can be arranged without gaps.

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Mounting aid, junction box, T series

T 25 application
Installation with the round junction box T 25.

T 40 application
Installation with the smallest square junction box T 40.

T series cover with signal cable
Installation with a junction box T 60 with a red signal cover.

Floor/wall fastening
The junction boxes can be fastened through two to four break-out openings in the base. The openings can be reclosed using cover caps.

Corner dome, wall fastening
From box size T 60, the junction boxes can be mounted on the substrate through the corner domes for cover fastening.

Fastening on mounting plate
There are two to four fastening domes integrated in the base substrate for metal screws of 3.5 x 9.5 mm, in order to fasten the box, e.g. to a mounting plate.

Plug-in seals
Cables can be installed directly by pushing through without any aids.

Pipe push-in seals
When using pipes, the user can also use plug-in pipe seals. This allows the creation of a closed installation.

Insertion opening / cable gland insert
Cable glands of type V-TEC VM can be inserted in the insertion opening, in order to create mechanical resistance and strain relief.

Cover captivity
All the lids are fastened captively in the box interior with a holding strap on the base.

Cover lock
From size T 60, the cover is fastened to the base with sash locks and can be opened or closed by giving the lock a quarter-turn.

Cover seal / IP protection rating
Junction boxes of size T 60 or larger are fitted with a foamed cover seal. This creates the high protection rating of IP66.

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Terminal block fastening
An earthing terminal can be attached to the central dome in the interior of the T 25 to T 100 junction boxes.

Hat rail fastening
Hat profile rails can be mounted in lengthwise, transverse or diagonal directions in the cable box bases of sizes T 60 to T 350.

Use of screwless terminals
Screwless terminals are used for wiring "on the fly" for cross-sections of up to 2.5 mm².

T250 with terminal strips at top
Wired junction box T250 with terminal strips at top. Clear and easy-to-test wiring.

Cable entries for closed junction boxes
With the T boxes with closed side walls, stepped drills can be used to drill individual openings. The high protection rating can be maintained by using the EDK plug-in seals or V-TEC VM cable glands and locknuts.

Break-out openings in the base
There are break-out openings in the box base, through which cables coming directly out of the mounting substrate can be inserted in the junction box.

T series cover with signal cable
Junction boxes with covers in the red signal colour are available for labelling safety-relevant circuits.

Outdoor mounting of T series
The junction boxes of the T series with the UV addition, can also be used in external areas with direct sunlight penetration. Cables can be run through the plug-in seal without reducing the protection rating.

Outdoor mounting of T series with cable glands
Cable glands of type V-TEC VM can be used to provide strain relief of the cables and also protect them against twisting.

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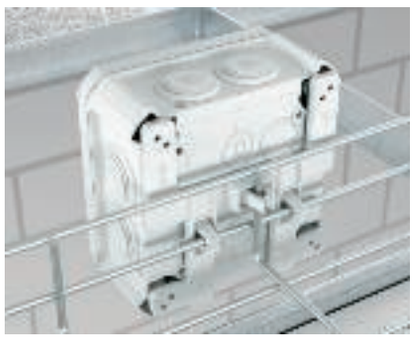
Condensation water
With tightly closing housings in external areas, it is important that any condensation water created is drained using the appropriate openings. This only applies to systems without increased foreign body or moisture protection.

T series with strain relief entries
The strain relief entries mean that installation cables can be inserted directly in the T Box. The special ribs protect the cable against unintentional withdrawal.

T series with Wieland sockets
The Wieland sockets, type GSt 18-i3, locked into the sides of the T-Box 100 WB, are pre-terminated and electrically connected. The sockets have different colour coding and can be used for different circuits.

T series with Modul 45 sockets
The T 100 MSD with pre-mounted and ready-wired sockets can be used in false ceilings for variable wiring.

Fastening element on junction box
The junction box is snapped onto the mesh cable tray without tools using the previously mounted fastening element.



Fastening element with junction box on the mesh cable tray
The junction box can be fastened to a mesh cable tray quickly, efficiently and without tools in just a few actions. Installation can start after just the minimum of preparation time.

Fastening element with junction box on the cable tray
The junction box can be fastened to all standard cable trays quickly, efficiently and without tools in just a few actions. Installation can start after just the minimum of preparation time. The image shows mounting without the slide lock.

Connect the fastening element with the junction box
The fastening element is snapped onto the rear side of the cable box mesh cable tray without tools.

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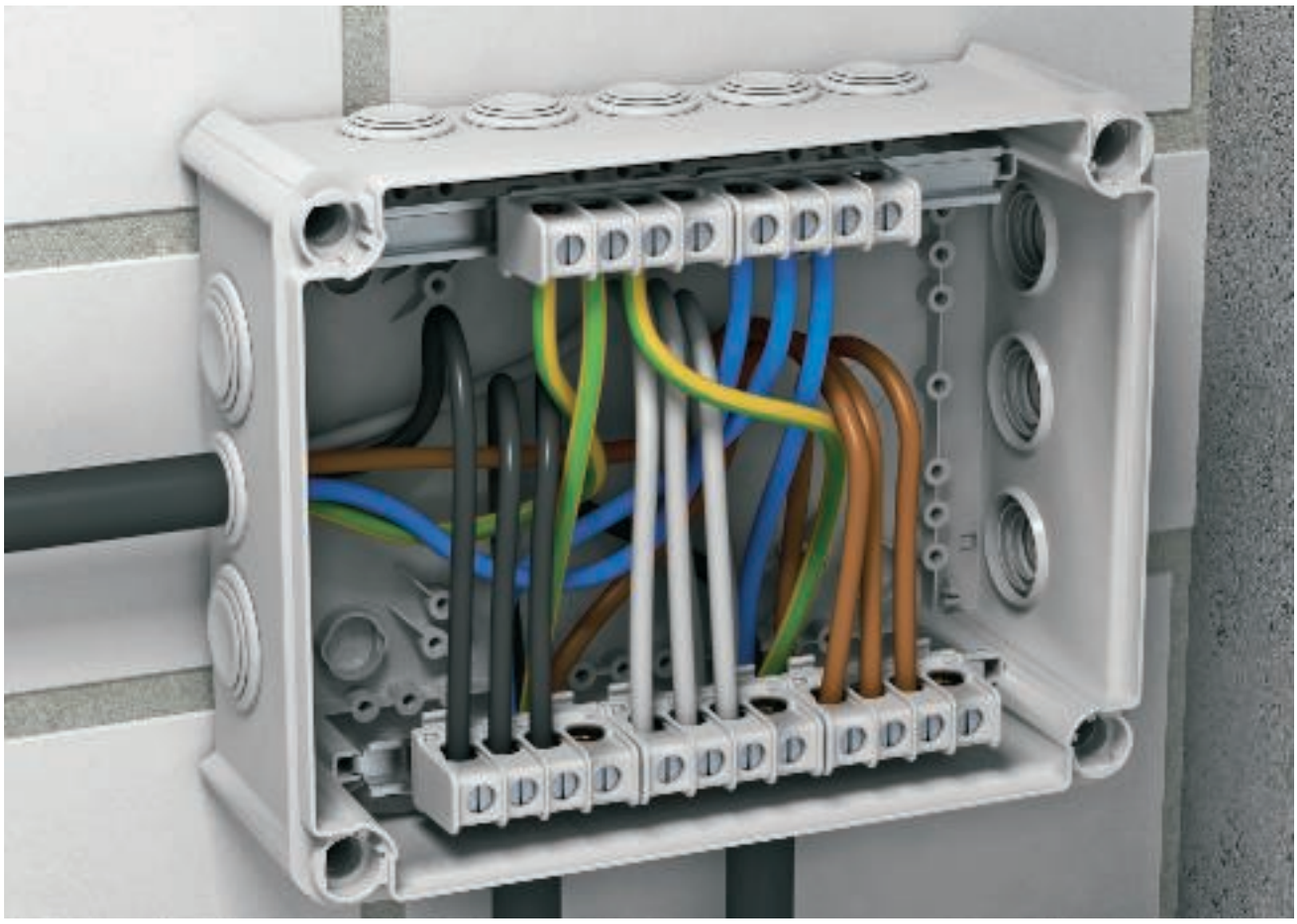
Mounting aid, junction box, T series with clamping piece



The new T series terminal strips are child's play to mount in the junction box and require no tools. Positioning the terminal strips at the top edge of the junction box keeps wiring easy to follow and accessible at all times. The hat profile rails can be installed both lengthwise and transversely in junction boxes of size T100 and greater. Terminal strips of type KL-T 06-16 and L-T 16-35 can be snapped onto standard hat profile rails. 5 terminal strips are required for normal applications, as each terminal strip is one-pole. There are 4 terminal holes on each terminal strip. However, the modular structure means that it possible to use more or less than these 5 terminal strips at any time.
The maximum number of terminal strips is specified by the size of the junction box. This means that it is possible to mount up to 12 terminal strips of type KL-T 06-16 in a T250 junction box.

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Mounting aid, junction box, T series with clamping piece

T250 with terminal strip
The earthing terminals can simply be snapped onto the hat profile rail fastened in the junction box.

T250 with terminal strips
Fastening of the hat profile rail in the junction box by simply pushing into the existing rail seats.

Snapping on of the terminal strips
The terminal strips are attached to the inner side of the junction box and locked by applying slight pressure to the outer side of the junction box.

T250 with terminal strips
If the junction box is ordered with terminal strips, then 2 hat profile rails and 5 terminal strips are supplied.

T250 with terminal strips
If the junction box is ordered with terminal strips, 2 hat profile rails and 5 terminal strips are supplied.

Terminal strip on mini hat profile rail
One or more earthing terminals can be fastened on the mounted hat profile rail.

Fastening of the mini hat profile rail
The hat profile rail is attached to the "dome" in the base of the cable box.

Snapping on of the terminal strip
The individual terminal strips can simply be snapped onto the mini hat profile rail without tools.

Terminal strip lengthwise in junction box
The hat profile rails can be mounted both "lengthwise" and "across" in the junction box. The maximum number of terminals is dependent on the installation, the size of the junction box and the terminal strip used.

Terminal strip transverse in junction box
5-pole wiring is also possible in the transverse direction.

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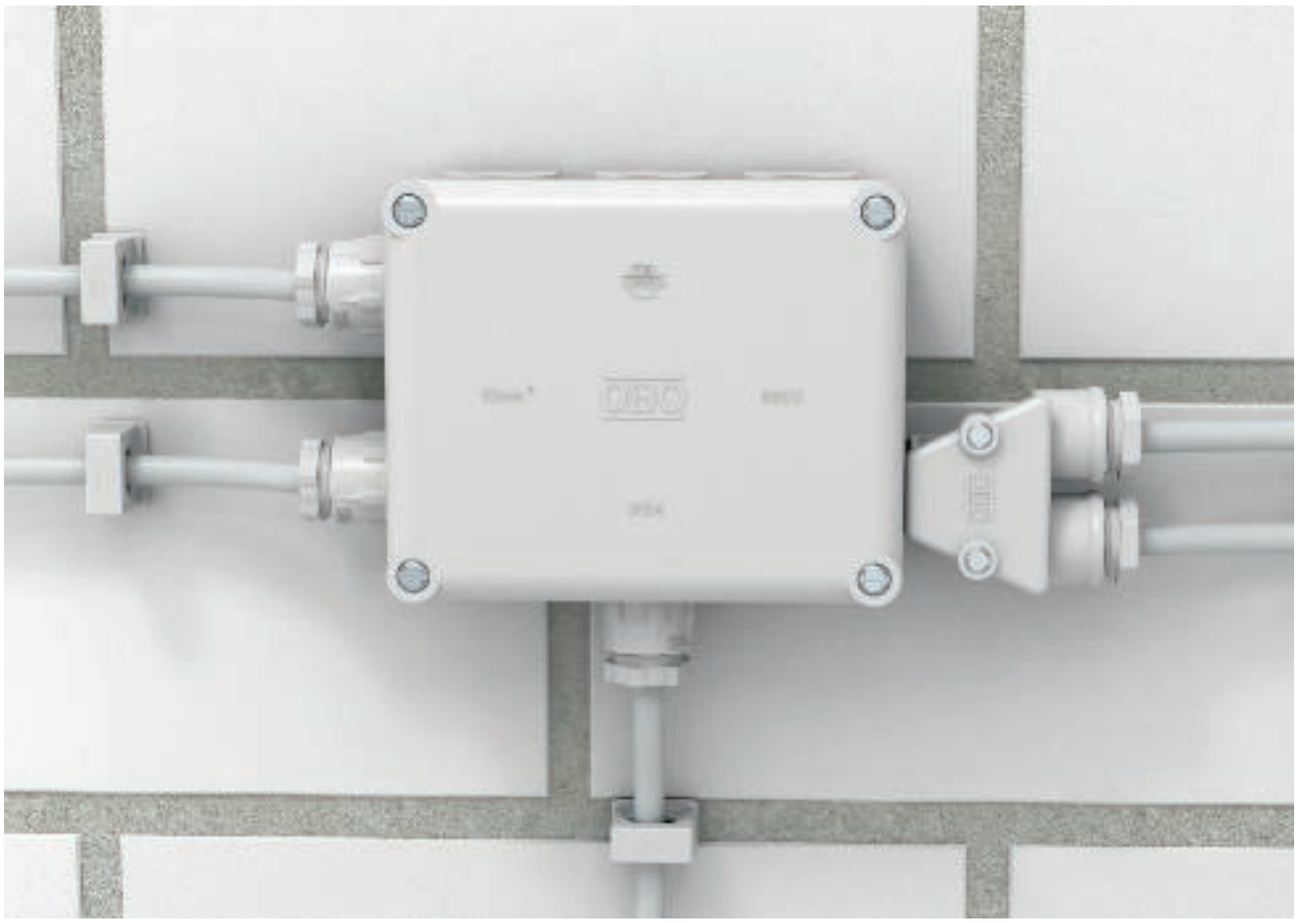
Mounting aid, junction box, B series with thread



For decades, the B series OBO junction boxes with threads have been a permanent component of the OBO Bettermann product range. They are made of Aminoplast. This plastic is hard and is highly resistant, meaning that the junction boxes are very stiff and stable. The B series is particularly suitable for environments with extreme temperature deviations. The required cable openings can be broken out at the appropriate points using a screwdriver. Cable glands can be screwed directly into the openings in the side walls. This automatically provides strain relief for cables.

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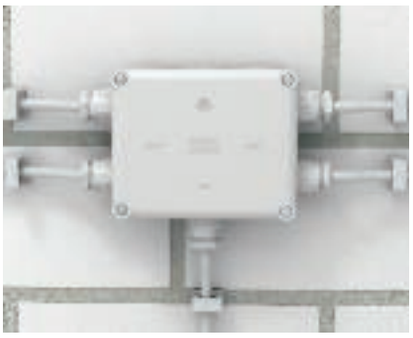
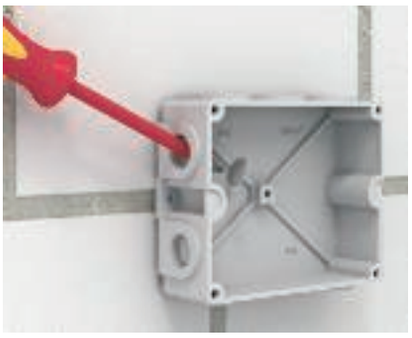
Mounting aid, junction box, B series with thread

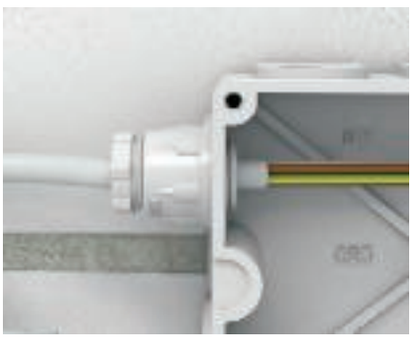


B series with thread application, wall mounting
Complete mounting and installation of B11 with screwed-in cone cable glands and pressure ISO clips.

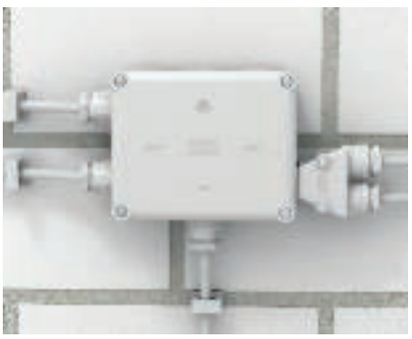


Wall mounting B11M
The junction boxes are mounted on the mounting substrate using the external fastening elements.
The break-out openings can be broken out using a screwdriver or another suitable tool.

Mounting of cable gland
Cable glands can be screwed directly into the thread in the housing.



Cable installation
The cables are then be inserted into the junction box through the cable glands. The IP protection rating can thus be maintained.



Application with cone cable glands
All kinds of cable glands can be inserted in the break-out openings. Twin cable glands can be used to insert two cables through an opening.

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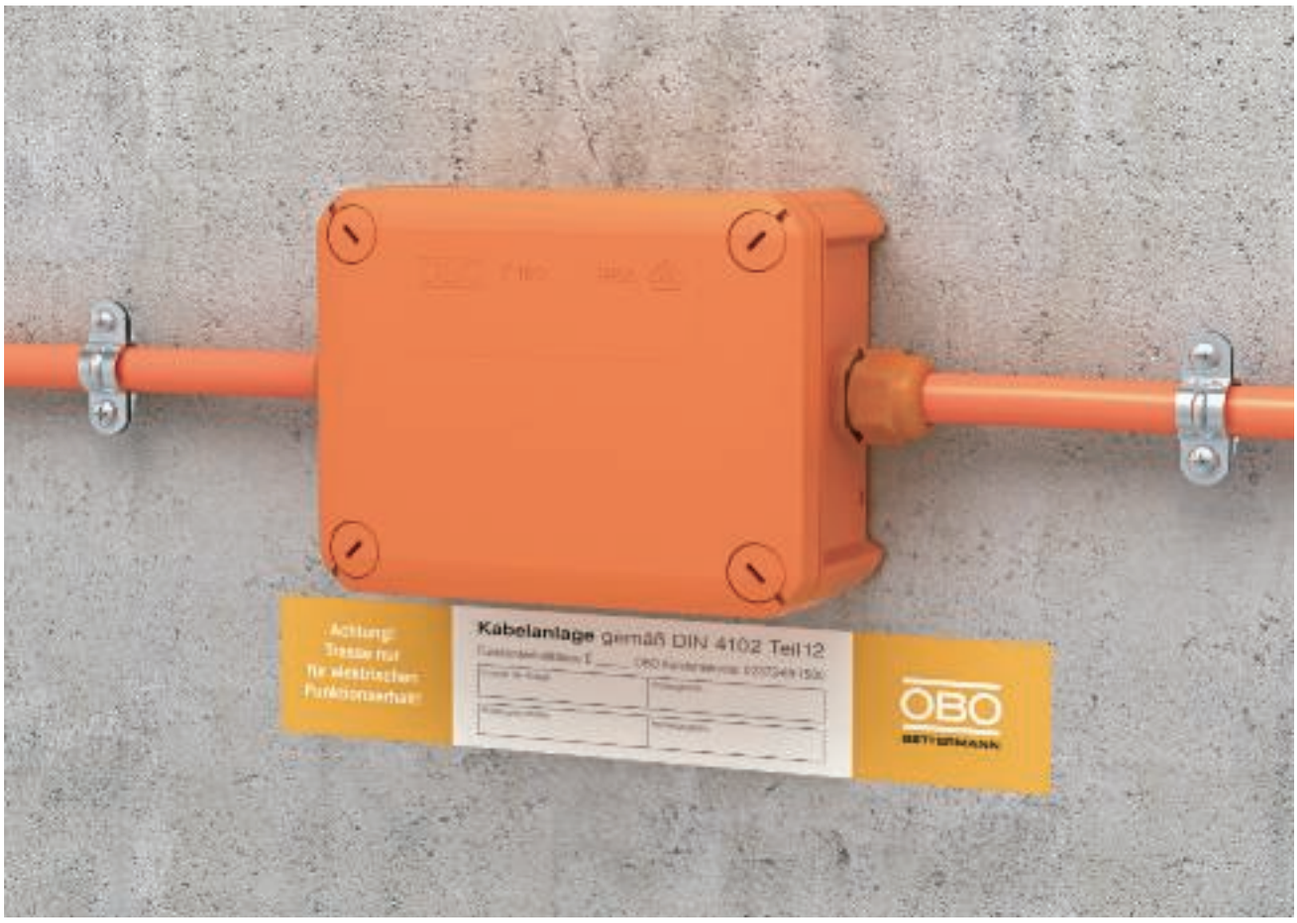
Mounting aid, junction box, FireBox



There are ever higher requirements attached to the fire safety of installations in modern buildings. For these requirements to be fulfilled safely, OBO can offer the FireBox made of Duroplast to extend or branch defined function maintenance cables. With the FireBox series, OBO can complete its range for function maintenance systems for safety-relevant systems.
The tested and approved types T 100 E and T 160 E will fulfil your requirements reliably and safely. All the components needed for mounting are included in the contents of the delivery: the cable junction boxes, four plug-in seals and the connecting unit with two bolt ties.
A unique highlight of the OBO FireBox is the fully pre-assembled connecting unit that is built to withstand high temperatures. As always, OBO has all the solutions for your needs – and all from a single source.

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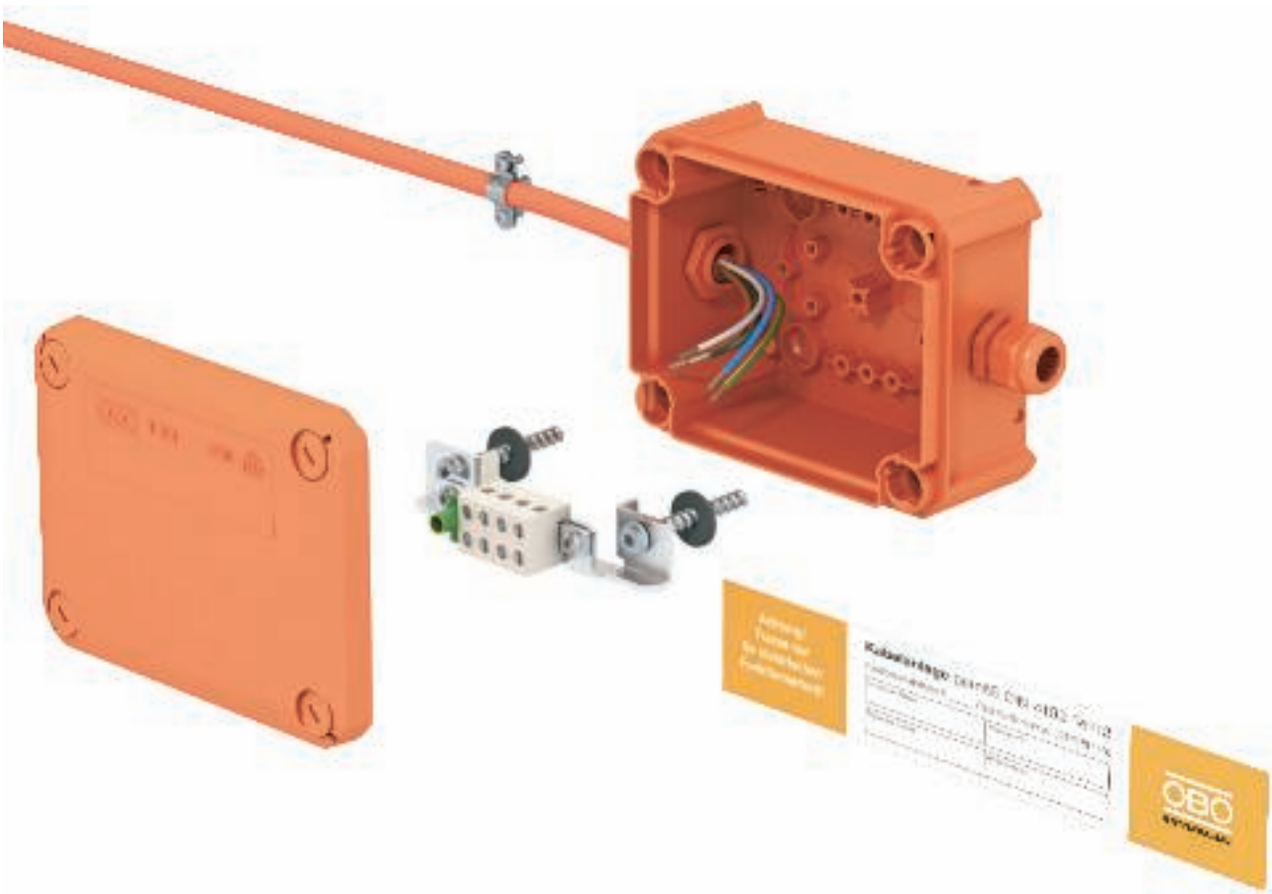
Installation principle FireBox junction box



System description

Routing type	Duroplastic cable-specific connection with high temperature-resistant connection unit
Test certificate no.	P-MPA-E-08-016
Function maintenance classes	E30 to E90
Testing standard	DIN 4102 Part 12

Approved data

Type	Nominal wire cross-sections	Nominal wire cross-sections Double assignment
T100E 4-5	5 x 4 mm²	Max. 2 x 1.5 mm²
T160E 10-5	5 x 10 mm²	Max. 2 x 4 mm²
T160E 16-5	5 x 16 mm²	Max. 2 x 6 mm²
T160E 4-8D	Wire diameter 0.8 mm	

The data in the general construction test certificates of the materials testing office of North Rhine-Westphalia, Erwitte, apply.

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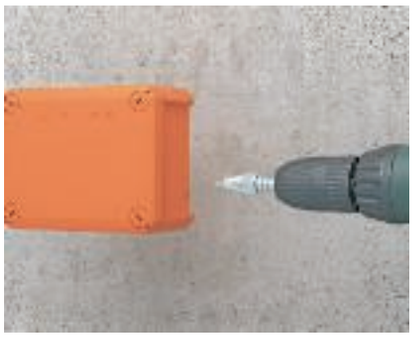
Mounting aid, junction box, FireBox



Creating insertion openings
Drill the holes for V-TEC cable glands with a stepped drill.

Mounting, cable glands
Fastening of the V-TEC cable glands using locknuts.

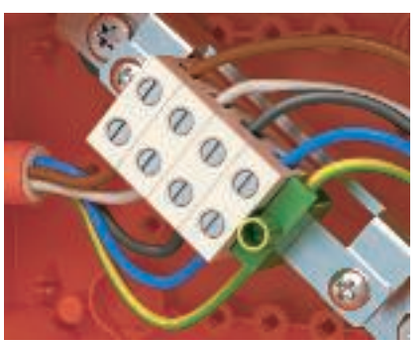
Create fastening holes
Drill base openings for wall fastening.

Mounting preparations
Draw on the drill holes for subsequent mounting.

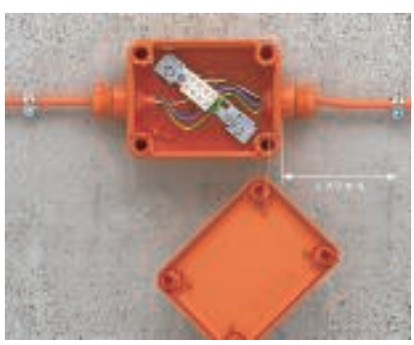
Drill fastening holes
Drilling diameter: 5 mm, 60 mm deep. Clean the drill holes well.

Mounting, connection unit
Fasten the bolt tie with seals directly in the substrate through the clamp and base of the junction box.

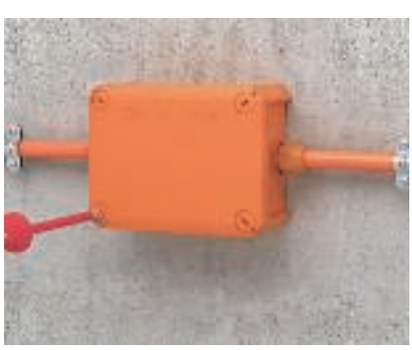
Cable insertion
Strip the cable ends and insert them into the junction box through the cable gland.



Protective conductor terminal
Always place the protective conductor on the green-yellow PE terminal. Try to avoid wire cross-overs.



Clip spacing
Maximum clip spacing in front of the junction box 100 mm, in order to prevent sagging in case of fire.



Mounting completion
Attach the lid and lock it by turning the four corner screws through 90°.

Labelling
Attach the sign with the cable system data according to DIN 4102 Part 12.

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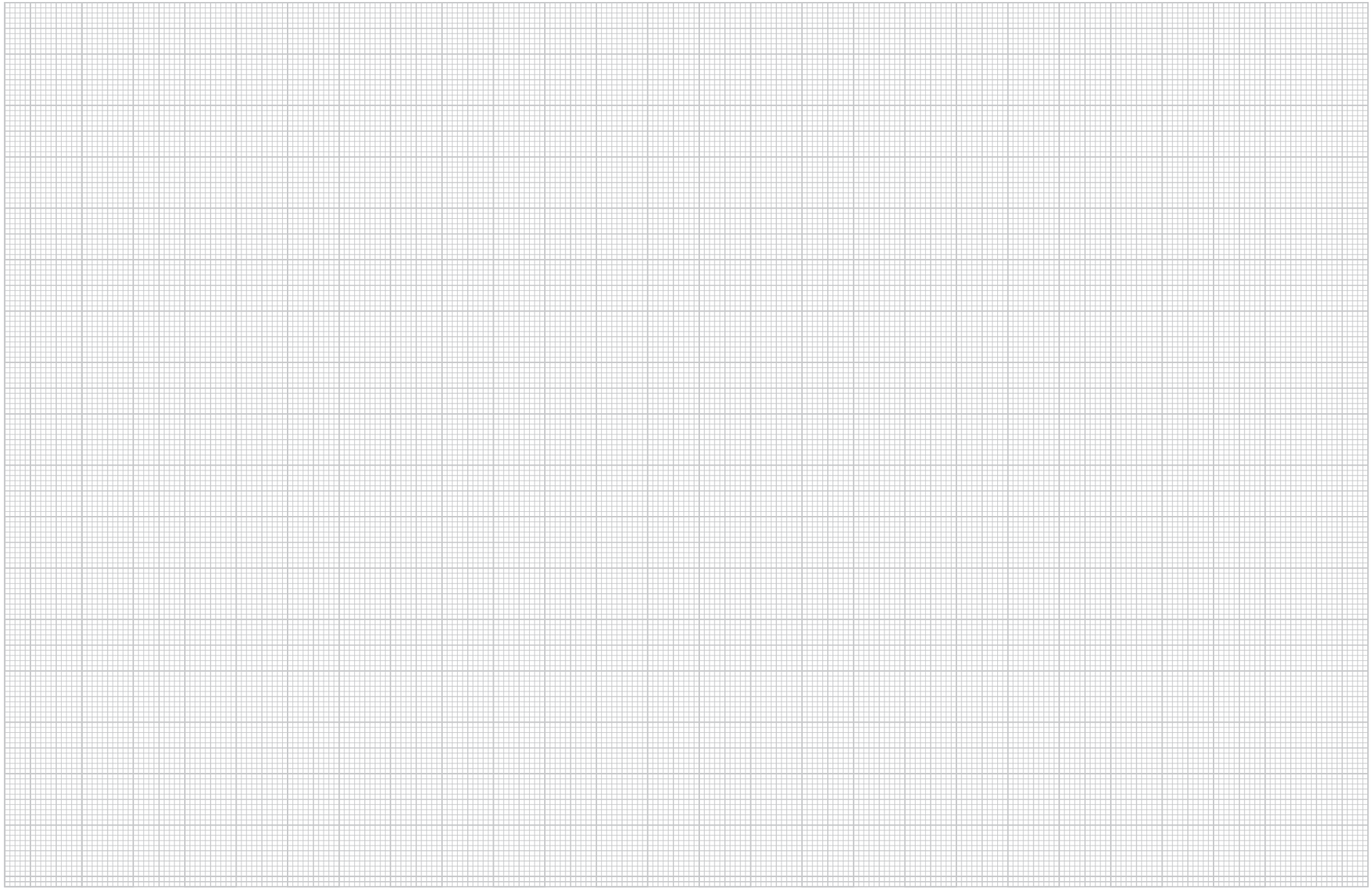

Mounting aid, Aquasit casting compound

Aquasit is a two-component casting compound in a press cartridge for applications in areas with extremely high, continuous moisture. It can also be used against mechanical shock and vibrations.
The cartridge is suitable for use in standard cartridge pistols. At room temperature, the unopened aluminium packaging can be stored for up to a year. When the cartridge is opened, the material should be used within 24 hours.

Properties of Aquasit:
Protection rating: IP68 at 1.8 bar: 1000 hr.
Rated voltage: 400 V
Impact resistance: >20 kV/mm according to VDE 0291 Part 2
Operational temperature: -40 to +90 °C
Processing temperature: 0 to +40 °C
Halogen-free, silicone-free, isocyanite-free
Environmentally friendly and without a labelling requirement

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Mounting aid, Aquasit casting compound

Preparations
During wall installations, to be able to fill with Aquasit, remove one plug-in seal in the top area of the box.

Add the Aquasit
Aquasit can be processed using a standard cartridge pistol. An emulsion tube must be placed on the Aquasit cartridge. This can be used to fill multiple cable boxes. After opening, the Aquasit must be used within 24 hours. The gel in the emulsion tube hardens after approx. 20–30 min.

Fully cast junction box
The plug-in seal can be inserted again after the junction box has been cast. The electrical system can be recommissioned immediately. The junction box is now protected against any kind of continuous moisture and fulfils the protection rating IP68.

Pump shaft application
Aquasit can be used to protect those electrical installations, which could be damaged by extreme or continuous moisture.

Preparation for external installation
In the case of applications in the ground, e.g. for cable branches, Aquasit can protect the installation, when it becomes invisible at a later time. Cable glands should be attached to the junction box as strain relief.

Add the Aquasit
Aquasit can be processed using a standard cartridge pistol. An emulsion tube must be placed on the Aquasit cartridge. This can be used to fill multiple cable boxes. After opening, the Aquasit must be used within 24 hours. The gel in the emulsion tube hardens after approx. 20–30 min.

Filled junction box
It is sufficient to fill the junction box so that the terminals are completely covered.

Electrical testing
When hardened, Aquasit is soft and elastic. This means that electrical connections can be inspected at any time. Aquasit is "self-healing", meaning that the holes of the inspection points close themselves, posing no risk to the protection rating. The compound can be easily removed and refilled later for retroinstallations.

Fully cast junction box
The junction box is cast and now fulfils the protection rating IP68.

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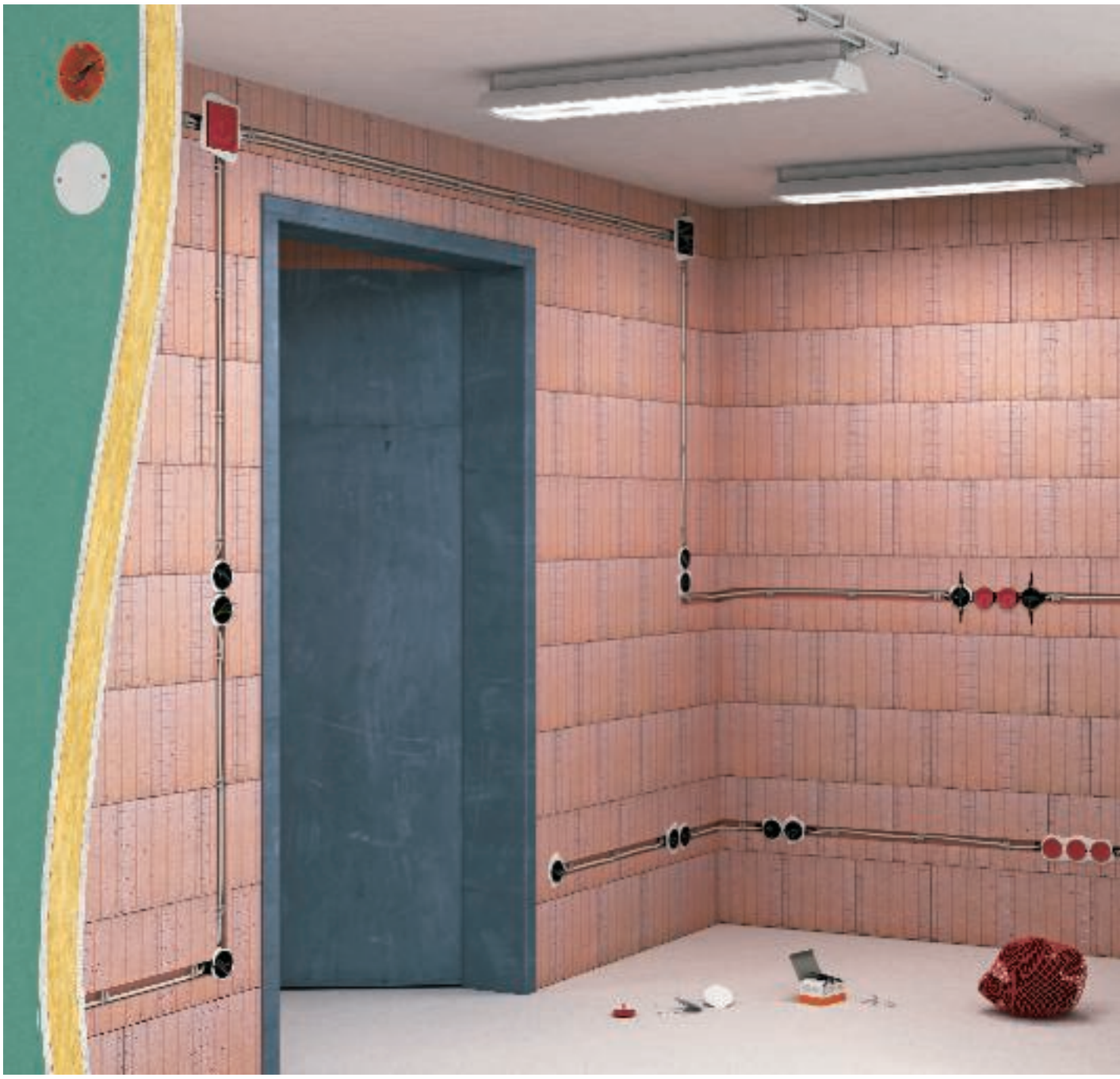

Planning aids, concealed and cavity wall systems

Mounting aid, concealed systems	56
Mounting aid, cavity wall systems	60

Mounting aid, concealed systems

OBO concealed systems offer a wide range of accessories and are ideally suited for use in any masonry and all areas of application. The systems were developed according to the state of the art and are perfectly matched. They can fulfil any practical requirements, thus allowing perfect installations in record time.

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Mounting aid, concealed systems

Accessory socket installation
Concealed devices and connection sockets can easily be plastered into masonry of all kinds.

Accessory socket installation with nail straps
Concealed accessory socket with nail straps can be fastened in masonry using steel nails. The nail strap also prevents excessive penetration in the mounting opening.

Distributor box installation
Concealed connection boxes allow distributions to be created in the wall.

Combination of concealed sockets
The accessory sockets and the device connection sockets can be interconnected via their tunnel supports. The combination distance is 71 mm.

Surface equalisation rings
If the plaster on the wall is to be thicker, surface equalisation rings can be screwed to the accessory or connection sockets.

Signal cover
Before plastering, place the signal cover on the device or connection sockets. They prevent soiling of the socket interior and simplify finding the sockets again after plastering.

Sprung cover
With connection sockets, the sockets can be closed simply after installation using the sprung cover.

Universal cover
Universal covers are suitable for accessory sockets with 60 mm hole spacing, and connection sockets with 67 mm hole spacing.

Wall light connection sockets
Supply cables for wall lights must end in wall light connection sockets. These boxes offer space for three terminal strips and a cable reserve.

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Device connection sockets
Device connection sockets allow the installation of an accessory and can offer additional space for at least three connection terminals.

Bending radii
The device connection boxes with increased box volume are suitable for maintaining bend radii in a concealed installation (e.g. for coaxial cables).

CEE concealed fitted plug
The CEE accessory socket 2392 and the cover plate 2393/UP allow the installation of CEE flanged sockets with 60 x 60 mm fastening dimension.

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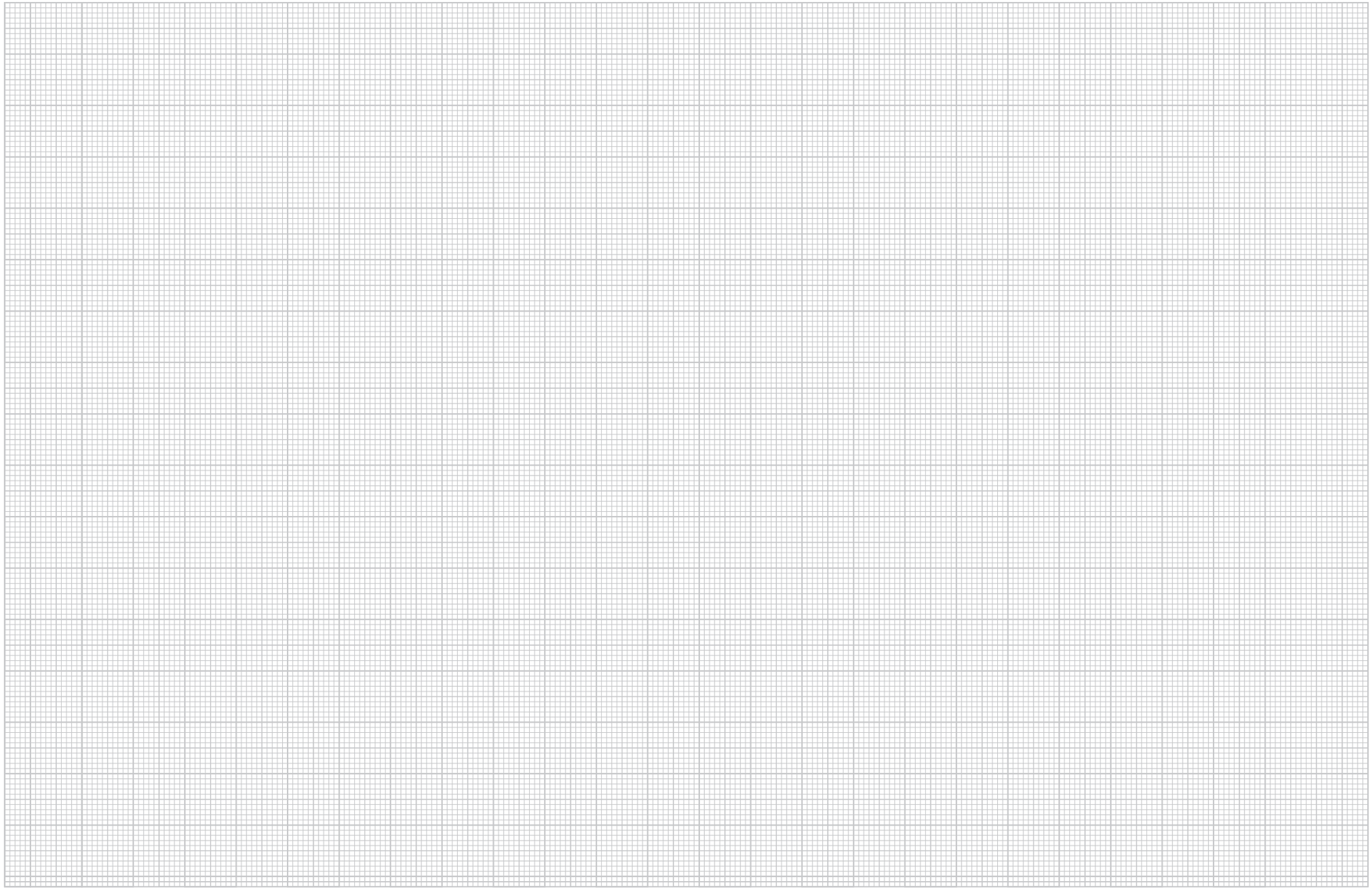
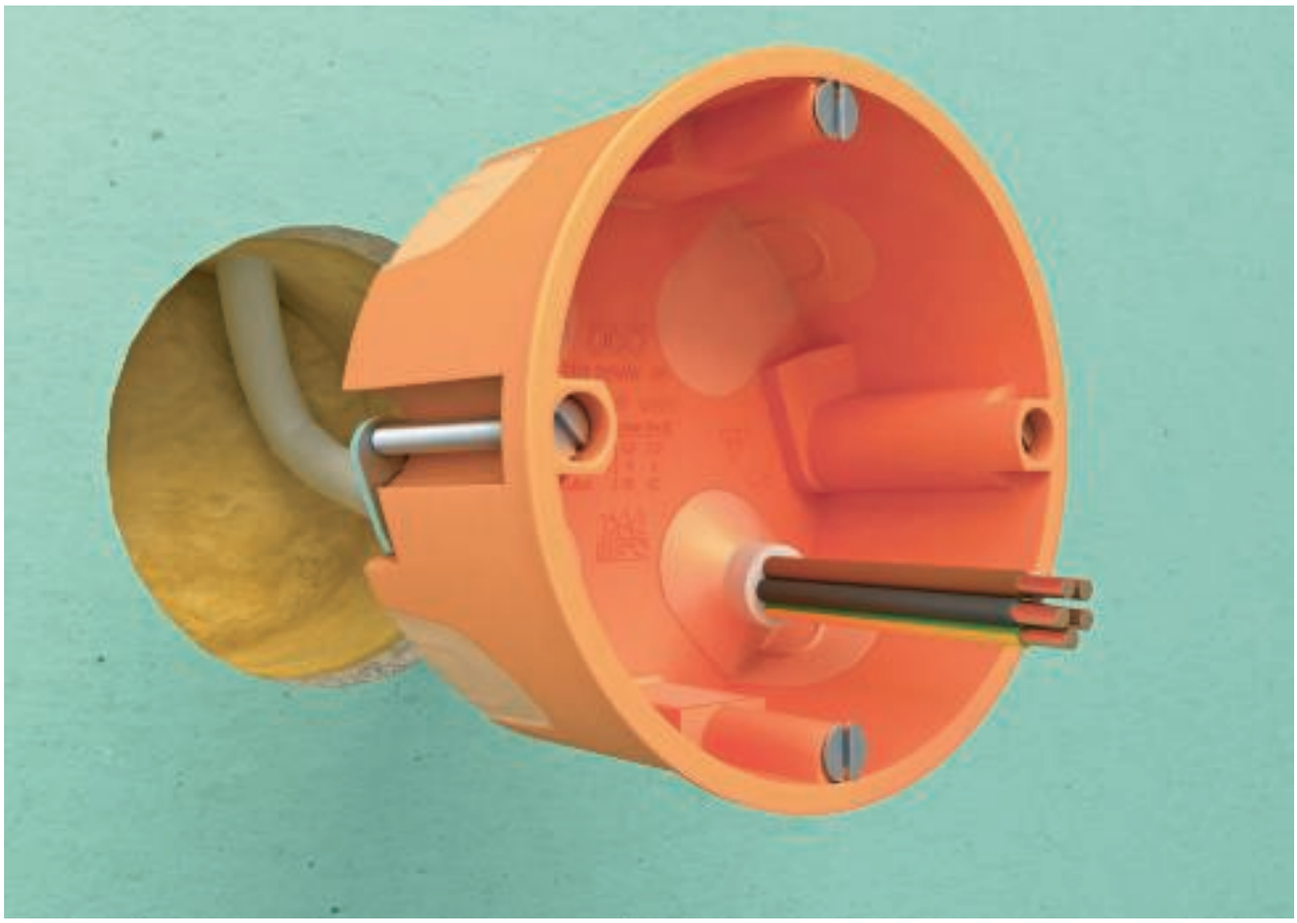


Mounting aid, cavity wall systems



The cavity wall system with soft membrane guide comprises perfectly matched products, with which you can create and install wind-tight stand-off wall systems in any building – from a detached house to a large-scale construction project. The system is suitable for wall thicknesses from 7 mm to 35 mm.

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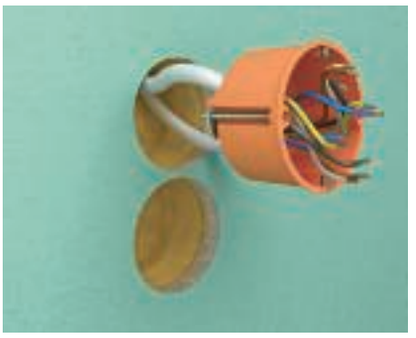
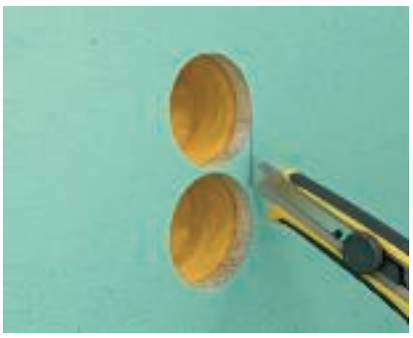
Mounting aid, cavity wall systems

Distributor box installation
Cavity wall distributor boxes allow distributions to be created in the wall.

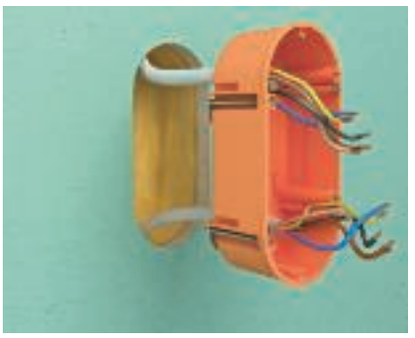
Preparation of mounting hole
Draw on the centre of the hole and cut out a drill hole of 68 mm using a circular band saw. With combination mounting, maintain the standardised hole spacing of 71 mm and create a second hole vertically or horizontally to the first one.



Mounting of accessory socket
Insert cables and/or pipes into the accessory socket in advance – these clamp themselves in the socket automatically. Then place the accessory sockets in the drill hole.



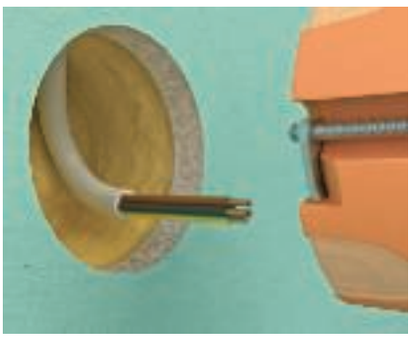
Preparation of mounting hole for double accessory sockets
When using the double accessory socket, two holes are drilled in advance at a spacing of 71 mm and a diameter of 68 mm. The rest is cut out with a knife.



Mounting of double accessory sockets
Insert cables and/or pipes into the accessory socket in advance – these clamp themselves in the socket automatically. Then place the accessory sockets in the drill hole.

Fastening the cavity wall sockets
Fix the accessory sockets in the drill hole using a screwdriver and the fastening screw. The small holding plates on the rear side of the sockets provide the necessary hold.

Mounting of installation units in cavity wall sockets
Now equip ready-placed accessory and connection sockets with device installation units.



Wind-proof installation
When using the wind-tight cavity wall accessory sockets, push the cables and/or pipes directly through the soft membrane entry.

Sealing of the input cables
The cables and/or pipes are tightly sealed by the sealing membrane. This means that no leakage air currents can escape from the devices.

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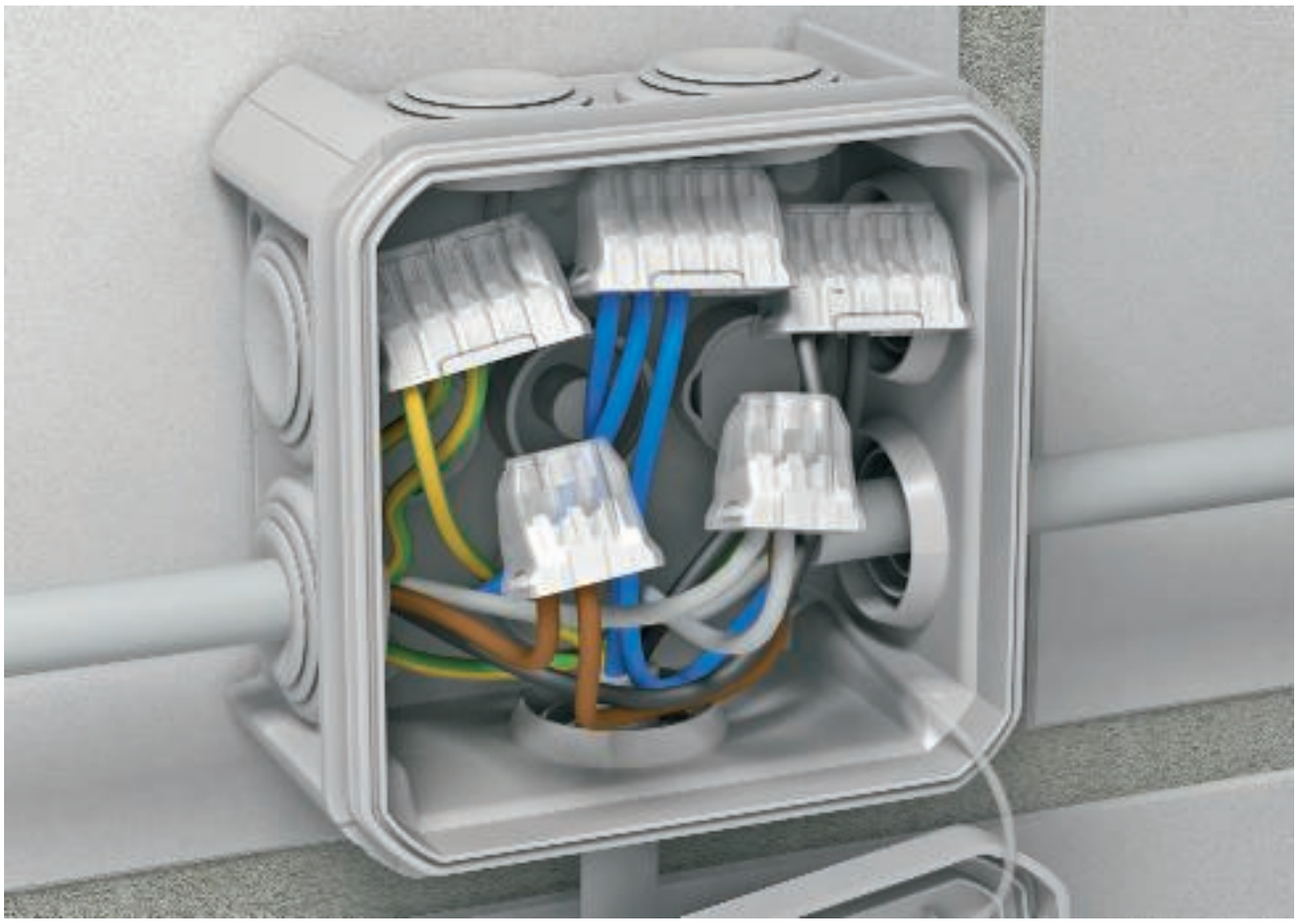
OBO
OBO
BETTERMANN

Mounting aid, terminal systems 64

Mounting aid, clamp systems



Electrical connections are made with screw-in and screwless terminals. In terminal strips and Dolü branch terminals, the cables are fixed in the terminal using a screw. With screwless terminals, the contact and the holding force is applied to the wires using special spring mechanics. The transparent cover of the contact terminals allows a visual check of the correct wire connection in the screwless terminals.

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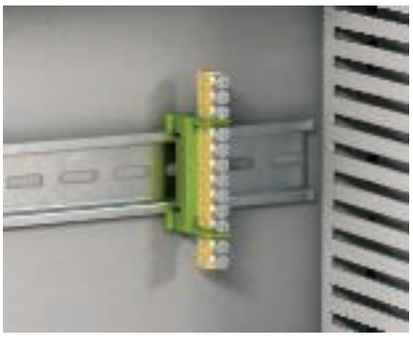
Mounting aid, clamp systems



Protective conductor terminal application
Neutral and protective conductor terminals can be snapped onto 35 mm hat profile rails in a transverse direction.

Neutral conductor terminal application
Neutral and protective conductor terminals can be snapped onto flat irons, 10 x 2.5 mm, in a lengthwise direction.

Dolü branch terminal application
With Dolü branch terminals, individual terminals can be twisted off to separate them. Coloured terminals are available for the different wire colours, meaning that continuously coloured wiring is not a problem.

Application in a concealed distributor box
With Dolü branch terminals (socket lamp-wire connectors), multiple cables can be screwed together in one terminal.

Application in junction box
Dolü branch terminals are also used for wiring within junction boxes.

Terminal strip application
Flexible and rigid cables can be interconnected in terminal strips.

Flexible fine-wire cables
The type 74/D means that it is possible to connect fine-wire cables without end sleeves.
The wire protection clamp ensures full-surface contacts of the fine copper wires.

Terminal strip application
For luminaire connection, wire ends can be secured with terminal clips.

Terminal strips
Terminal strips are available in various versions with various current load capacities and connection cross-sections.

Terminal strip
Lamp-wire connectors of the .../CE series are available in both white and black.

Terminal strip
Terminal strips are soft and flexible.

Terminal strip
The terminal strips can be cut down to the correct number of poles.

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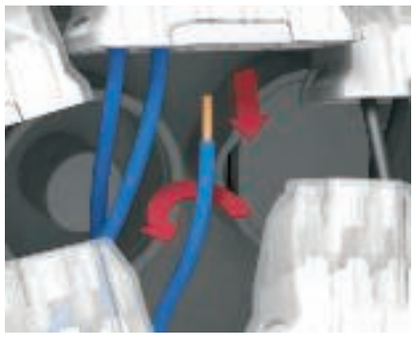
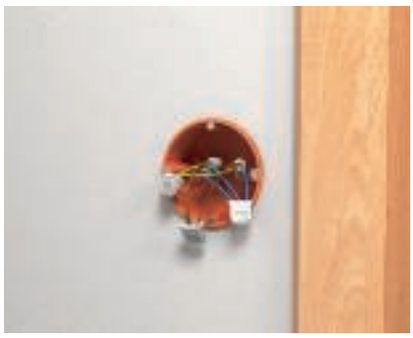
Packaging information, screwless terminal
The packaging of the screwless terminals has briefly sketched user information.

Shortening of wires
A mark on the screwless terminal shows the correct amount of insulation to be removed. This not only ensures the perfect fit of the wires, but also maximum touch protection. The correct fit of the wires can be checked through the transparent sight glass.



Slackening a wire
The individual wires sit tightly and firmly in the screwless terminal. They can be released by rotating and pulling them simultaneously.

Testing pin opening
Practical and safe: the rear testing pin opening allows safe measurement and testing of the wires with a testing pin or phase tester (max. Ø 2 mm).



Concealed and cavity wall screwless terminal application
Screwless terminals are used for "quick" wiring in cavity walls and concealed sockets.

Screwless terminals application in junction boxes
Screwless terminals are ideally suited to for wiring cables within junction boxes. Cross-sections of between 0.75 mm² and 2.5 mm² can be connected in a terminal type using the OBO screwless terminals.

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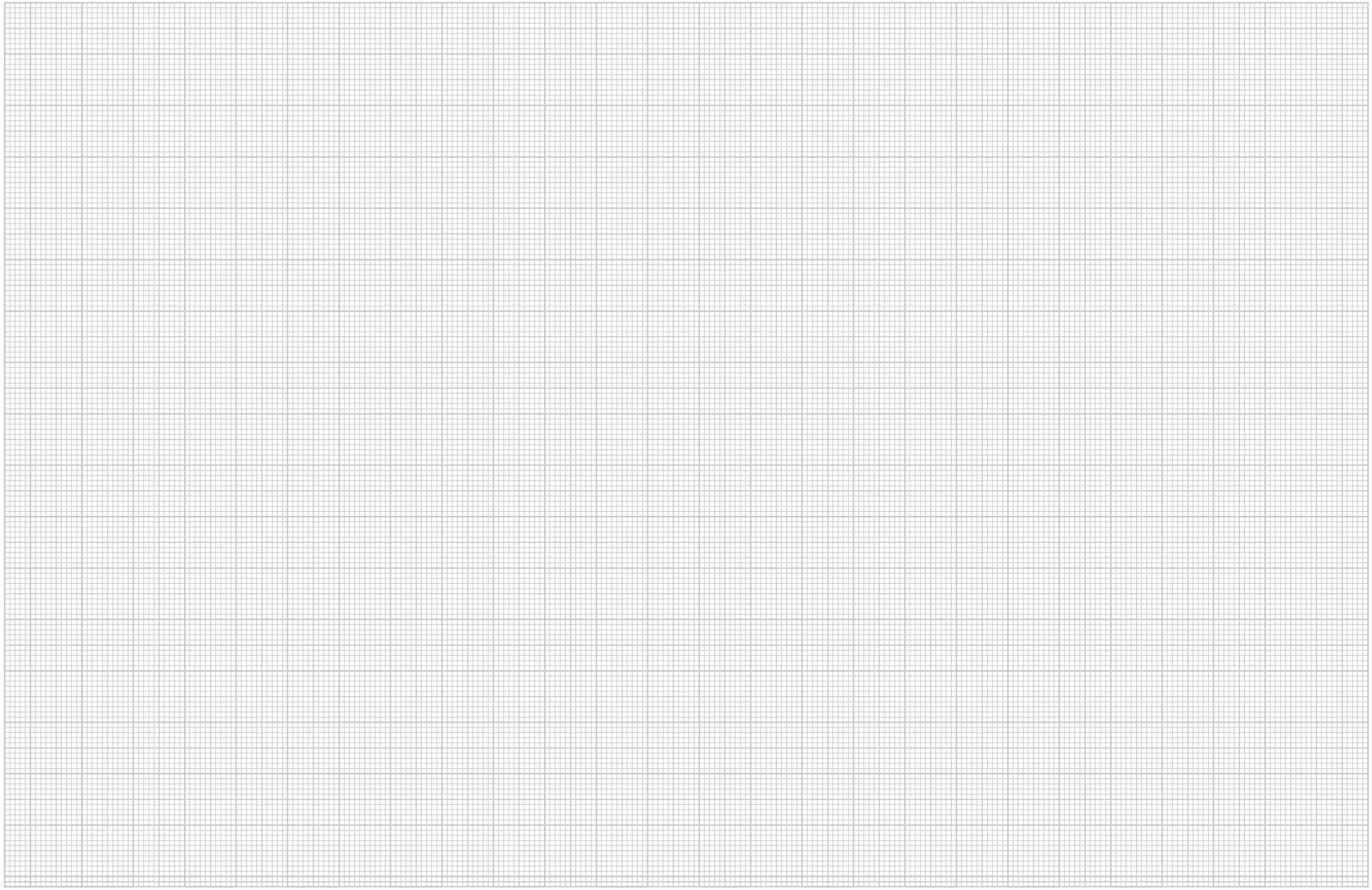

Planning aids, cable gland systems

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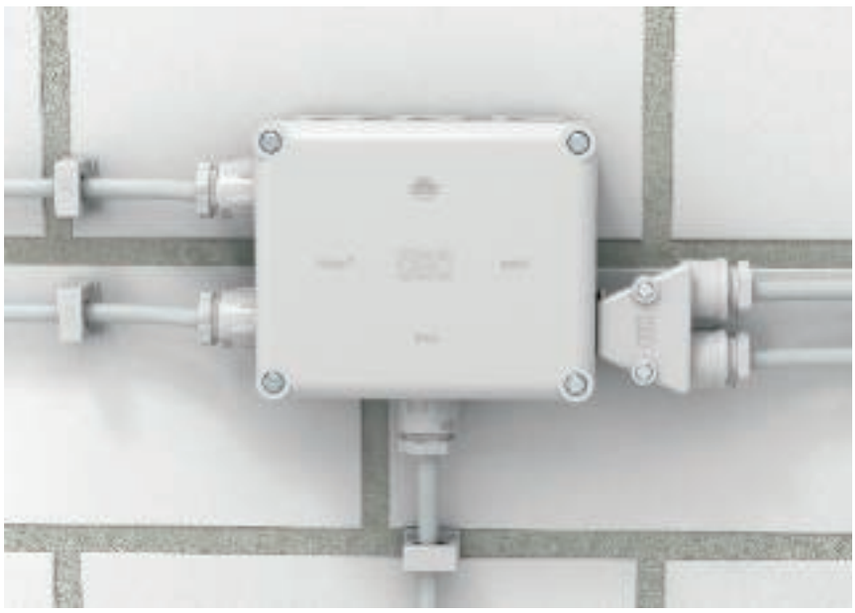
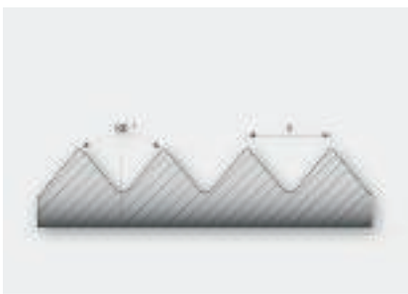
Mounting aid, EMC cable glands	77

Useful information about cable glands





Thread increase Pg

Thread increase, metric

Cable glands are manufactured and tested according to DIN EN 50262. 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 of the standard specifies which withdrawal forces these cable glands must withstand. The V-TEC cable glands also fulfil the requirements of DIN EN 50262 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 50262 according to Table 1. The on-site specialist must ensure that these parameters are complied with in order to handover a functioning system.

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Useful information about cable glands

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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Mounting aid, plastic cable glands

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 50262.
The connecting threads of the cable glands are metric or PG and are therefore suitable for universal use. Once screwed in place, the fitting 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.

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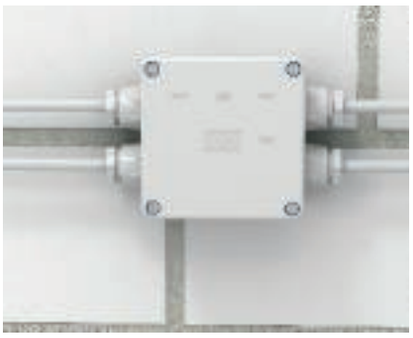
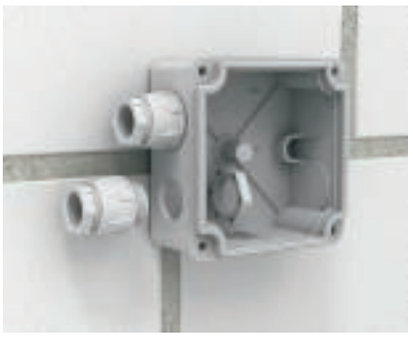
Mounting aid, plastic cable glands



Installation in housings without a thread
Cable glands can be installed in junction boxes or housings without a thread using a locknut.



Installation of cable glands
Any openings required on the junction box can be broken out. Then, push the cable glands through the opening and lock them tightly in the interior with a locknut.

Installation in housings with a thread
Cable glands can be screwed directly into junction boxes or housings with threads.

Installation of cable glands
Cable glands are screwed directly into the thread in the housing wall.

Installation of V-TEC VM cable glands
Cable glands of type V-TEC VM are used wherever strain relief for cables must be achieved in addition to the mechanical resistance.

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Mounting aid, brass cable glands

Tough conditions are no problem for the brass V-TEC VM.
Here too, the 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 the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 50262.
The connecting threads are metric or PG and are therefore suitable for universal use. Once screwed in place the fitting is there for ever, 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.

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Mounting aid, brass cable glands

Mounting of V-TEC MS on motor connection box
Brass V-TEC VM cable glands are used under tough conditions.

Cable entry with V-TEC MS on distributor systems
In industrial distributor systems, cables are inserted in the system using cap nut cable glands of type V-TEC MS.

Brass cable gland in LKM duct
Metal cable glands are also suitable for running cables out of a metal line routing duct (LKM).

Mounting of brass cable gland
The required openings are drilled in the side wall of the LKM. Then, push the cable glands through the opening and lock them tightly in the interior with a locknut.

Cone cable gland application
Cables can be inserted in switching systems and distributor cabinets using cone cable glands.

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Useful information about cable glands

EMC cable glands

The guarantee of fault-free operation of electrical systems is one of the most important aims of an installation. The topic of EMC (electromagnetic compatibility) is an important subject in industrial systems. In particular, it is external influences, such as switching operations, surge voltages or the use of frequency converters, which cause challenging requirements for the components used. Large cable lengths for power supplies or data transmission mean that some installation cables act like antennas and can thus receive electromagnetic fault signals. The actual payload signal can thus be superimposed, causing functional faults on system parts. To counteract this, it is important to create the installation in routing systems providing sufficient shielding, such as in closed cable support systems or metal line routing ducts and pipe systems. The use of cables with a braided shield can also have a positive impact when reducing fault signals.

Any efforts to make cable routing as secure as possible is destined for failure if no attention is paid to cable entries for EMC in control systems. For this, OBO Bettermann now offers EMC cable glands in two different versions.

The V-TEC VM EMV offers the user the option of inserting shielded cables into control systems. The insulation is removed from the cable and the braided shield connected to the cable gland. Alternatively, the installation engineer can use the V-TEC VM EMV-K, which creates the contact between the braided shield and the gland by means of a contact spring.

Both variants allow perfect, continuous contacting of the system.

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Mounting aid, EMV cable glands

Mounting preparation of V-TEC EMV cable gland
Remove the outer jacketing of the installation cable and expose the braided shield to a length of approx. 10–15 mm (depending on the cable diameter).

Pushing of the V-TEC VM EMV cable gland
Push the cap nut and the lamella insert with the ceiling ring onto the cable.

Preparation of braided shield
Bend the braided shield outwards at a right angle (90°). Then fold the braid twice in the direction of the external jacket (i.e. bend it through another 180°). Then attach the intermediate connector up to the braided shield and turn it back and forth around the cable axis so that the braid is contacted across the full area.

Combination of the individual parts
Push in the lamella insert with the sealing ring into the intermediate connector and lock into the twist protection.

Combination of the individual parts
The cap nut must now be screwed tight.

Complete installation of the V-TEC EMV cable gland
The cable shield is pressed all between the lamella insert and the intermediate connector, ensuring perfect contacting.

Mounting preparation of V-TEC VM EMV K cable gland
The cable jacketing is partially stripped, so that the braided shield is revealed to a length of approx. 10 mm.

Pushing of the V-TEC VM EMV-K cable gland
The cable is run through the cable gland from the cap nut side until the contact spring presses against the exposed braided shield. This creates the contact between the cable gland and the installation cable.

Complete installation of the V-TEC VM EMV-K cable gland
The principle of the contact spring within the cable gland allows interruption-free running of the braided screen up to the clamping point.

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Planning aids, cable and pipe fastening systems, plastic

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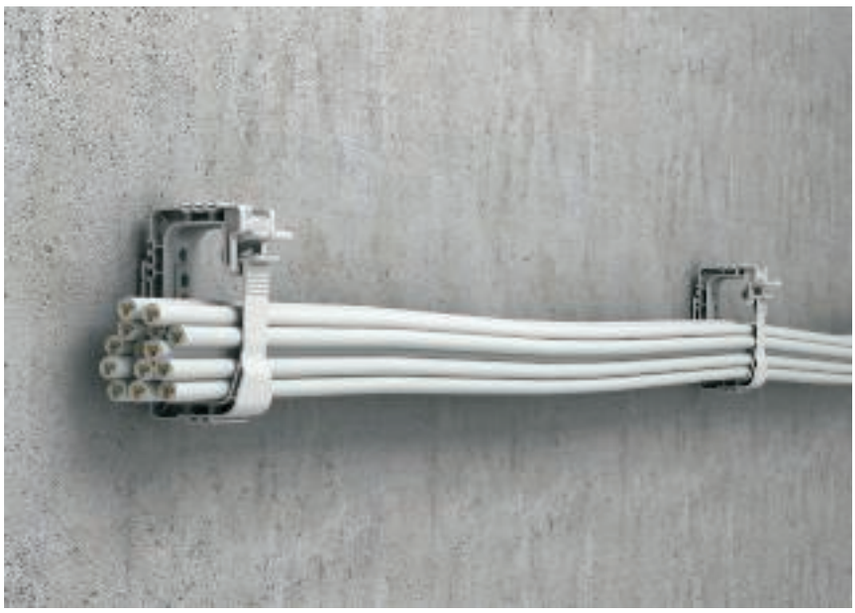
Information on cable fastening



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 agents 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/client can/-must take specific laying specifications into account.
The fastening spacing for cables is given in DIN VDE 0100-520, June 2003. 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 laying, 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 catalogue, e.g. for cable tidies or Quick clips, are guide values and can only be treated as such.

Slits and recesses
DIN1053-1 specifies that slits and recesses may only be ground unless they were created in a walled composite. The slots and recesses may not affect the statics of the construction. Grinding is defined as the cutting of two grooves and the subsequent removal of the masonry in between. Mortising and knocking out slots and recesses is not permitted. Recesses and slots are also not permitted in chimney jambs.

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

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Mounting aid, OBO Quick family

With its Quick clips, starQuick clips and Multi-Quick clips, the OBO Quick family can offer three designs of clip, which are available for all different kinds of work. All the clip designs can accept the OBO Quick pipe and fasten cables. With the Quick family, electrical installations can be fastened in a way which both saves time and guarantees security.

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Mounting aid, OBO Quick family

Mounting of the installation pipes
Electrical installation pipes can be pushed gently through the insertion slopes of the Quick clips.

Locked-in installation pipes
The Quick clips safely fix the installation pipe to the ceiling or the wall. The recommended fastening spacing between the clips is 50–60 cm.

Multi-Quick clips application
The Multi-Quick clips can cover spans of 16–32 mm or 15–37 mm using just three clip types. The teeth in the clips guarantee that the installation pipes are held in place securely.

Wall mounting with Multi-Quick clips
Multi-Quick clips are suitable for mounting installation pipes on walls, as the clips simply adjust themselves to the pipe diameter by simply pushing in the pipes.

starQuick clip application
The safety lock of the starQuick clips means that they are the ideal installation aid during pipe mounting, primarily under ceilings. The clip has two locking positions and can thus be used for different pipe diameters.

Ceiling mounting with starQuick® clips
The safety lock and the high load capacity of the starQuick® clip mean that the installation pipes can also be mounted under difficult conditions. The special material of the starQuick® clips makes them resistant to various chemical influences.

StarQuick for outdoor areas
StarQuick clips can be used in outdoor areas, as these clips are made from a UV- and weather-resistant material.

Arrangement of the clip family
The shared arrangement system allows the interconnection of various clip types.

Quick clip with push-fit anchor
This clip is used when alignment and speed are the most important mounting conditions. This can be achieved both through the locking option of the anchor on the clip and the arrangement of the clips.

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Mounting aid, push-fit anchors

Save time and effort – with the highly flexible OBO BETTERMANN plug-in anchor system. The system is suitable for a wide range of applications: for full brick walls made of concrete, calcareous sandstone, tiles and gas concrete and also for partition walls, for cables and for rigid and flexible electrical installation pipes. All you need is a drill hole with a diameter of 6 mm. Because you can then simply push the different push-fit anchors into the drill holes by hand – with the minimum of force. The products are manufactured from polyamide – and are, of course, halogen-free.

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Mounting aid, push-fit anchors

Snap clip application
Draw the course and create the mounting holes.

Mounting of Snap clip
Prefix the clip in the drill hole using the push-fit anchor. Then attach the pipe and push the pipe with the clip onto the mounting surface.

Complete installation, Snap clip
The side wings of the clip grip around the pipe and fix it to the wall.

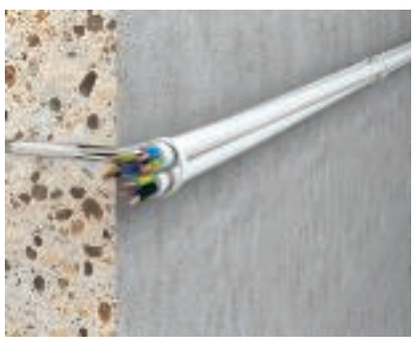
Click-snap clip application
Draw on the exact position of the drill holes with a chalk line.

Mounting preparations
Push the Quick pipe into the snap push-fit anchor, insert the cables, close the Quick pipe – and you're done!

Complete mounting of the Click-snap clip
The installation pipe is held by the wings of the clip. The lock provides additional protection, so that the clip cannot open itself by mistake.

Quick clip with push-fit anchor
This clip is used when alignment and speed are the most important mounting conditions. This can be achieved both through the locking option of the anchor on the clip and the arrangement of the clips.

BKS clamp clip application
Drill the drill holes, run the BKS clip around the cable and push it into the drill hole.



Complete installation, BKS clamp clip
The cables are held simply and safely.

Application 910/STK
Create a drill hole and pass the cable tie through the wing of the push-fit anchor.

Fastening cables
Tie cables to be installed together using the cable tie.

Complete installation, 910/STK
Fix the bundled cables in the drill hole with push-fit anchor.

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Push-fit anchor application, type 1974
Draw the mounting line and create the drill holes.

Complete installation, type 1974
Fix installation pipes or cables together with the push-fit anchor.

Double push-fit clip application, type 1974
Draw the mounting line and create the drill holes.

Complete installation, double push-fit anchor
Fix installation pipes or cables together with the push-fit anchor.

Push-fit anchor application with mushroom 910/STP
Draw and create the drill holes.

Complete installation, push-fit anchor with mushroom head 910/STP
Push the push-fit anchor through the mounting section and into the drill hole.

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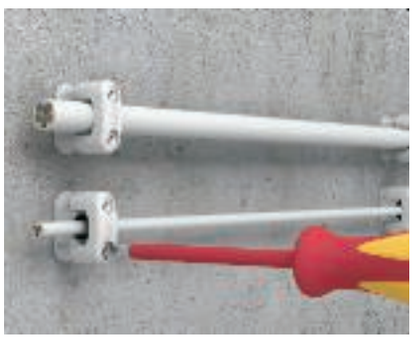
Mounting aid, fastening clips

Grip ISO clip application
The terminal base can be fastened with standard bolts in the slot. Alternatively, the base can be stuck onto the substrates using appropriate aids or screwed onto an M6 thread.

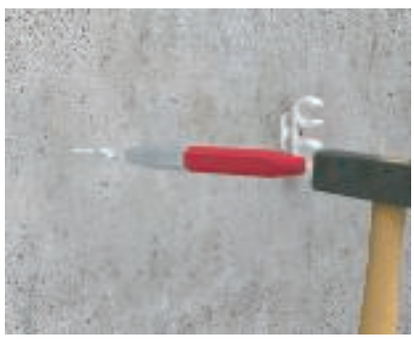
Complete installation with grip ISO clips
The cover is attached and the cable fixed using the clamping screw.

SOM clip application
The terminal base can be fastened with standard bolts or a 5 mm knock-in anchor.



Cable fixing
Cables are fixed using the plastic screws.

Complete installation, SOM clip
The design of this plastic clip means that it is primarily suitable for locations in which no metallic components may be used for reasons of corrosion protection.



Base clamp clip application
The clip can be screwed onto an M6 thread.

Mounting with OBO anchor
The installation can be prepared rapidly with the help of the OBO anchors and a flattener.

Screwing on of the base clamp clip
The base clamp clip is screwed onto the thread of the OBO anchor.

Complete installation, with base clamp clip
Pipes of different diameters can be inserted in the clip.

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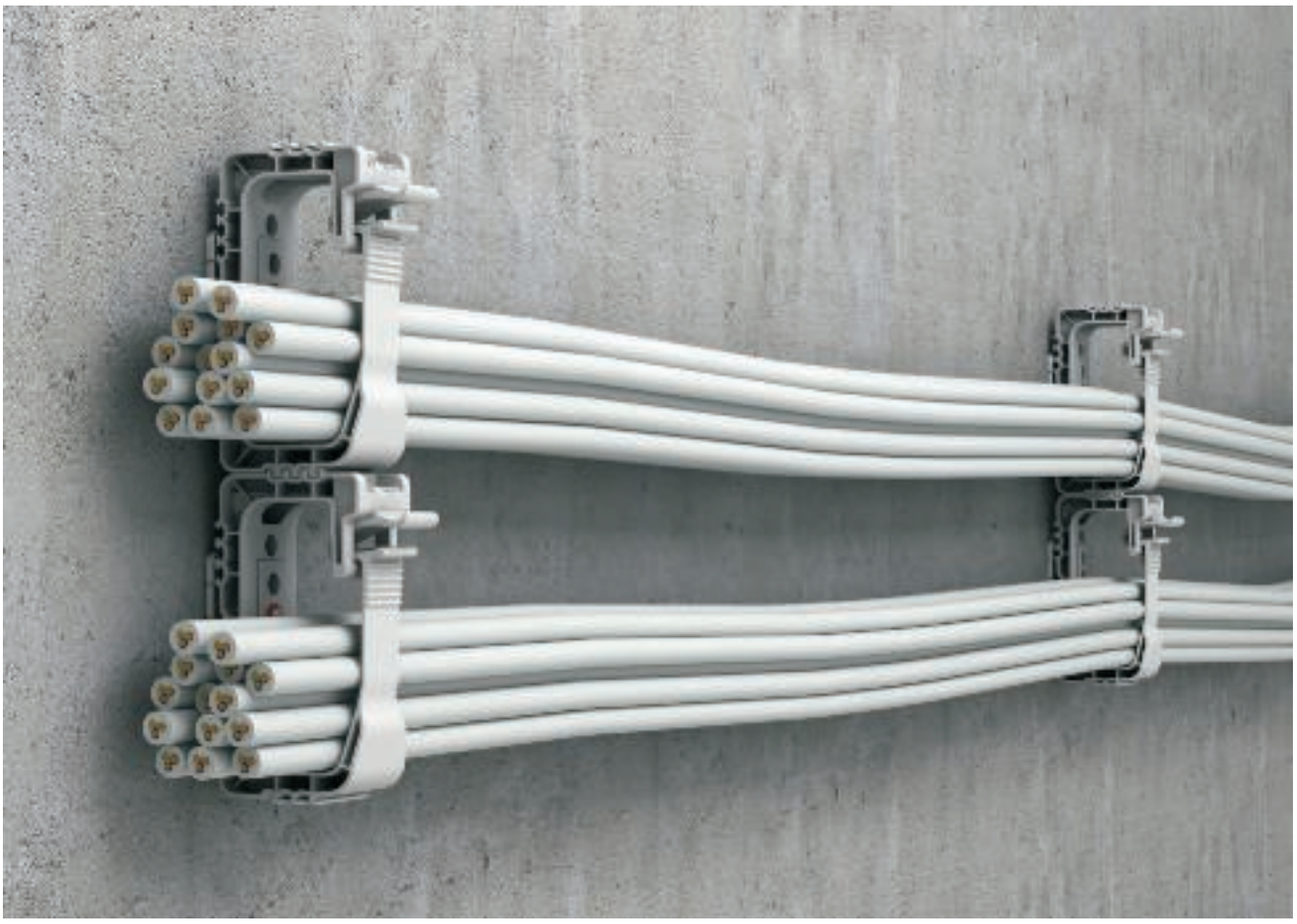
Mounting aid, Grip cable tidy, arranged



Besides, the known benefits, such as toolless opening and closing, the plastic Grip cable tidies can offer additional details to simplify easy cable routing - even under the toughest conditions. The moulded fastening element cannot be lost, making mounting under the ceiling or on the wall child's play. No matter whether it is with gas pressure nail guns, with knock-in anchors or the conventional method using bolts and anchors – the fastening options are wide-ranging. By locking the cable tidy on the fastening element there is no need for lengthy messing about with hammers or screwdrivers in the interior of the bracket. The Grip cable tidies (Grip 20, Grip 40) can offer an additional time-saving benefit in that the arrangement contour allows the side and rear connection of cable tidies without the need for tools. This means that the system can be expanded at any time, without needing to carry out additional drilling. Grip cable tidies are available in a hardly flammable version (colour: stone grey).

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Mounting aid, Grip cable tidy, arranged

Fastening with knock-in anchors
Push the knock-in anchor together with the fastening element into the drill hole and knock it in with a hammer.

Mounting on the wall with gas pressure nail gun
The fastening element of the bus holder can be placed on the head of a gas pressure nail gun and is automatically fixed using special lamella. Fastening takes place directly on the wall or ceiling using the gas pressure nail gun without additional aids.

Mounting under the ceiling
The Grip cable tidy is fastened under the ceiling.

Fastening the cable tidy
Pull and twist the fastening element to separate it from the Grip cable tidy.

Fastening the cable tidy
Push the Grip cable tidy on the previously separated fastening element.

Complete mounting of the cable tidy
The Grip cable tidy noticeably engages as soon as the right position has been reached.

Arrangement above each other
The patented arrangement contour means that the OBO cable tidies can be interconnected.

Arrangement above each other
Multiple cable tidies can be interconnected. Depending on the load and fastening, do not arrange more than two OBO cable tidies next to each other.

Rear arrangement
The patented arrangement contour means that the OBO cable tidies can be connected back to back.

Rear arrangement
Two cable tidies can be connected back to back. In this case, it is sufficient to fasten one cable tidy.

Mounting on the wall
Fastening the Grip cable tidy on the wall.

Fastening the cable tidy
Separate the fastening element from the Grip cable tidy.

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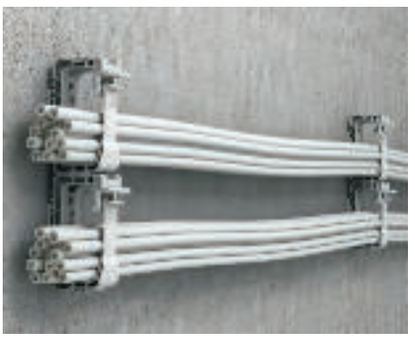
Fastening the cable tidy
Place the Grip cable tidies on the fastening element and lock it downwards.

Complete mounting of the cable tidy
Attached cable tidy, fastened to the wall.

Arrangement above each other
The patented arrangement contour means that the OBO cable tidies can be interconnected.

Arrangement above each other
Multiple cable tidies can be interconnected. Depending on the load and fastening, do not arrange more than two OBO cable tidies next to each other. Depending on the load, it is sufficient to fasten the top Grip.

Insertion of the installation cables
Cables can easily be mounted through the opening of the Grip cable tidy.



Complete installation with a cable tidy
The grip cable tidy can be closed without additional tools simply by pressing the locking contour.

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Mounting aid, pressure clip

The quicker, the better – this also applies to installations in false ceilings.
The pressure clips from OBO BETTERMANN are made of high-quality polyamide and simplify the routing of cables under the ceiling. The pressure clip is an ideal solution for areas in which every centimetre counts. Mounting is very simple using an M6 knock-in anchor. The top impact surface simplifies contact with the impact bolt on knocking in. After mounting the cables are passed under the clips in a "lasso technique" hand movement – and that's all there is to it!

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Mounting aid, pressure clip

Fixing the pressure clips
Push the knock-in anchor through the fastening hole of the pressure clips and fix in the drill hole.

Fastening the pressure clips
No additional mounting tools are required when using an OBO knock-in anchor. The anchor can be knocked in directly using a hammer.

Installation of cables
Push the cables from the side under the hips of the pressure clips.

Complete mounting, pressure clip, type 2033
The pressure clips 2033 can accept a maximum of 16 cables of type NYM 3 x 1.5 mm². This is a guide value and may vary according to cable manufacturer.

Complete mounting, pressure clip, type 2034
The pressure clips 2034 can accept a maximum of 10 cables of type NYM 3 x 1.5 mm². This is a guide value and may vary according to cable manufacturer.

Spacer
Using the spacer 2033D, it is possible to increase the clamping height to 13 mm, meaning that cables with a large diameter can also be clamped. The cable weight and cable diameter reduce the carrying capacity of the pressure clips accordingly.

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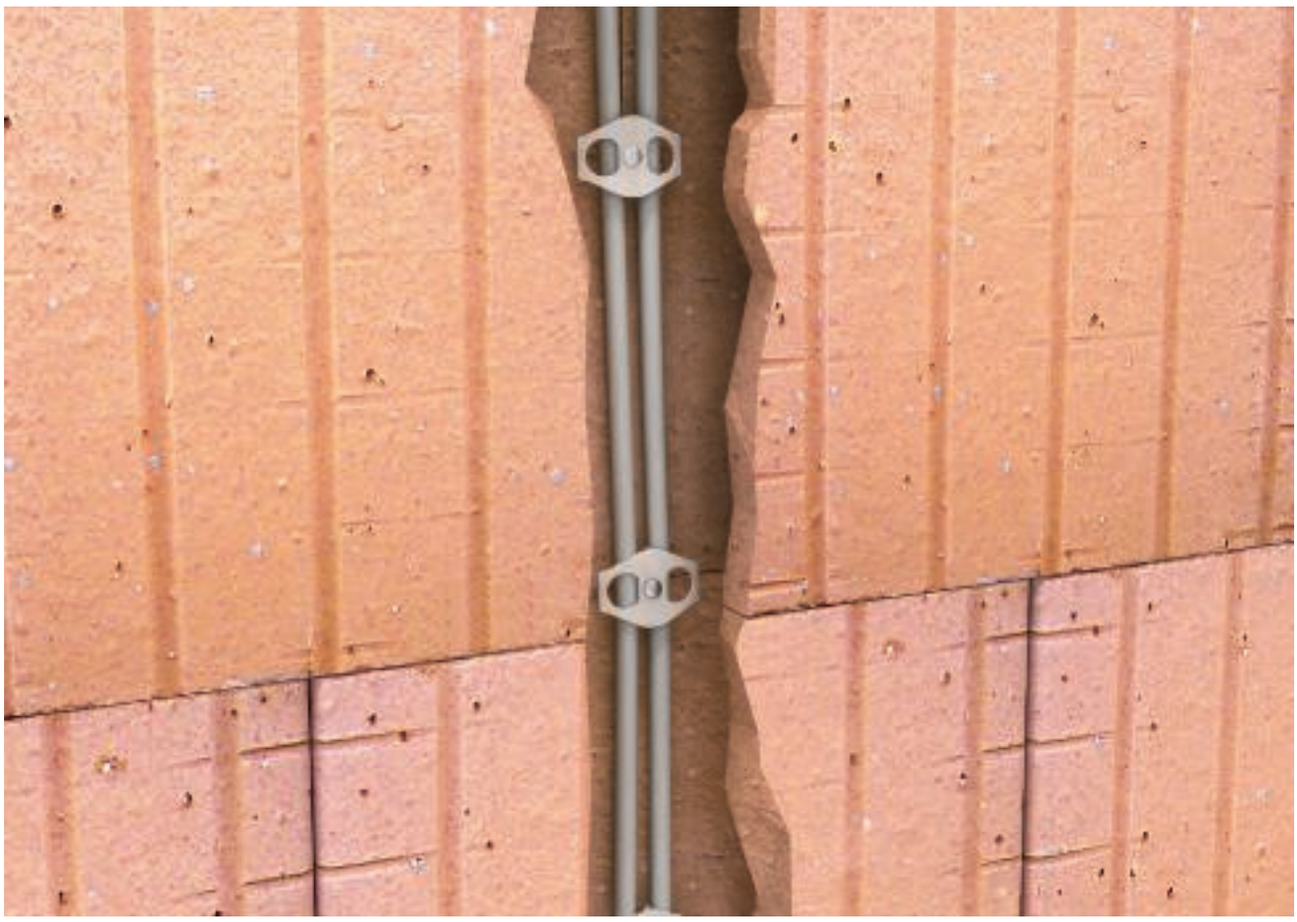
Mounting aid, clips



OBO can offer a wide range of clip systems, which can be fastened to various substrates with nails: starting with the adhesive clip of ISO nail clips for fastening, e.g. on wooden beams, up to the Nail-Fix for fixing in masonry slits.

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Mounting aid, clips

Adhesive clip application
Adhesive clips are suitable for fastening installation cables on various substrates. The shape of the adhesive clip clamps it to the cable. This means that mounting is even possible in difficult locations.

Complete installation, adhesive clip
Adhesive clips are suitable for fastening various cable diameters, due to their variable clamping areas.

ISO nail clip application
Select the ISO nail clips according to the cable diameter and clamp them onto the cable.

Complete installation, ISO nail clip
ISO nail clips are suitable on visible masonry to fix telecommunications cables, for example.

Nail-Fix application
OBO Nail-Fix is suitable to fix installation cables in masonry slits or on masonry which will be plastered at a later time.

Fixing the Nail-Fix
The various nail lengths mean that the Nail-Fix can be used in many different substrates.

Complete installation, Nail-Fix
The Nail-Fix fixes the cables securely in the wall slot.

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Mounting aid, spacer fastening clip

Whether in V2A stainless steel, in electrogalvanised, hot-dip galvanised steel or in aluminium - OBO can offer a wide range of spacer clips and screw-in spacer clips in various materials. The clips can be fastened both with bolt ties or with Angler anchors or Sprint screws. Depending on their design, the clips can be "shot" using a bolt-firing tool or gas pressure nail device.

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Mounting aid, spacer fastening clip

Function maintenance with screw-in spacer clips
The screw-in spacer clips of type 732 and 733 are tested and approved for routing to DIN 4102 Part 12. You can find the fastening spaces and approved cable types in the OBO BSS fire protection catalogue.

Pipe systems application
Screw-in spacer clips are suitable for routing steel armoured pipes on the wall or ceiling.

Pipe systems application for outdoor areas
When used in the open air, fastening clips with hot galvanised surfaces or ones made of stainless steel should be used to avoid corrosion.

Mounting of spacer clip 733
Mounting of the spacer clips with bolt ties or Sprint screws in an Angler anchors.

Mounting of cable bundle with spacer clip 733
Spacer clips are also suitable for bundling multiple cables.

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Mounting aid, fastening clip

Fastening clip application, type 604
Cables or pipes can be installed using the single-lobe fastening, e.g. on the raw concrete floor.

Fastening clip application
Cables can be mounted flat on the wall or ceiling using single or double-lobe fastening clips.

Fastening clip application with reinforced steel pipes
One or two-lobe clips are also used to fasten pipes. This means that the pipe can be installed laying flat on the substrate.

Main cable fastening, building connection box
Heavy-duty cable clips of type 1594 are used to fasten the main VNB cable at the entrance to the building.

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Mounting aid, pressure clip

Metal pressure clips ensure a high level of mechanical stability in installations above false ceilings or suspended fire protection ceilings in emergency and escape routes. The mechanical load capacity in case of fire was successfully confirmed by a test to DIN 4102. The metallic pressure clips are approved as a cable-specific routing variant for electrical function maintenance to DIN 4102 Part 12. You can find detailed information on the use of the brackets for function maintenance in the OBO BSS fire protection catalogue.

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Mounting aid, pressure clip

Fire protection ceiling area of application
Maintain a minimum spacing when used above fire protection ceilings.
Distance "a" to the fire protection ceiling for pressure clips
Type 2033 M: at least 70 mm
Type 2034 M: at least 50 mm

Function maintenance with the pressure clips
The metallic pressure clips are tested and approved for cable-specific cable routing to DIN 4102 Part 12. You can find the fastening spaces and approved cable types in the OBO BSS fire protection catalogue.

Fastening the pressure clips
Turning of the bolt tie into the drill hole. Screwing-in can take place with a rechargeable screwdriver, hammer screwdriver and by hand.

Installation of cables
Push the cables from the side under the hips of the pressure clips.

Mounted pressure clips
Complete mounting and maximum assignment of the pressure clips.

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Mounting aid, OBO Quick family Alu

Due to its easy fastening options, e.g. arrangement, the OBO Quick family, made of aluminium, is ideally suited for time-saving, secure fastening of electrical installations. There are six different clip sizes for various areas of application. All the designs are intended for the fastening of the OBO aluminium pipe system and for all metric aluminium pipe systems as well as light-duty and heavy-duty insulation pipes.

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Mounting aid, OBO Quick family Alu

Ceiling mounting with the aluminium Quick clip
Installation pipes can be fastened to the ceiling using the Quick clip.

Wall mounting with the aluminium Quick clip
Routing variants with Quick clip and aluminium pipe system.

Arrangement of the aluminium Quick clips
The arrangement contour of the clip type allows the interconnection of various sizes between 16-63 mm.

Rail with aluminium Quick clip application
The Quick clip is also used in conjunction with rails. This means that the clip can be attached in profile rails with a slot width of 11 mm. This can be used when pipe systems must be mounted on the fastening support "Profile rail".

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Mounting aid, cable tidy

Cable tidies are suitable for installations above false ceilings or suspended fire protection ceilings in emergency and escape routes. The mechanical load capacity in case of fire was successfully confirmed by a test to DIN 4102. The metallic cable tidies are approved as a cable-specific routing variant for electrical function maintenance to DIN 4102 Part 12. You can find detailed information on the use of the retainer for function maintenance in the OBO BSS fire protection catalogue.

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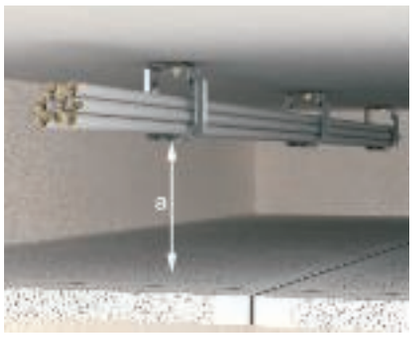
Mounting aid, cable tidy



Fire protection ceiling area of application
Maintain a minimum spacing when used above fire protection ceilings.
Distance "a" to the fire protection ceiling for collecting clamps:
For 60 cm fastening distance: a = min. 100 mm for cable sag of max. 30 mm
For 80 cm fastening distance: a = min. 250 mm for cable sag of max. 50 mm

Function maintenance with the collecting clamp
The metallic collecting clamps are tested and approved for cable-specific cable routing to DIN 4102 Part 12. You can find the fastening spaces and approved cable types in the OBO BSS fire protection catalogue.

Wall mounting of the cable tidies
Simultaneous mounting of the bolt ties or Angler anchors and Sprint screws with cable tidies as push-through mounting.

Inserting the cables
Insert the cables in the cable tidies. When cable assignment is complete, close the cable tidies by hooking the opening flap into the appropriate opening.

Ceiling mounting of the cable tidy, Grip 70
The cable tidy 2031/M 70 is supplied with a fire protection bolt tie MMS 6 x 50. The cable tidy is fastened to the ceiling using the bolt tie.

Cable installation, ceiling
Insert the cables in the cable tidies. When cable routing has been completed, close the cable tidies by hooking the opening flap into the appropriate opening.

Wall mounting of Grip 70 cable tidy
Mounting of the screw-in anchors with cable tidies with the push-through method.

Cable installation, wall
Insert the cables in the cable tidies. When cable routing has been completed, close the cable tidies by hooking the opening flap into the appropriate opening.

Mounted cable tidy
Cables can be retro-installed or removed at any time by opening and reclosing the cable tidies.

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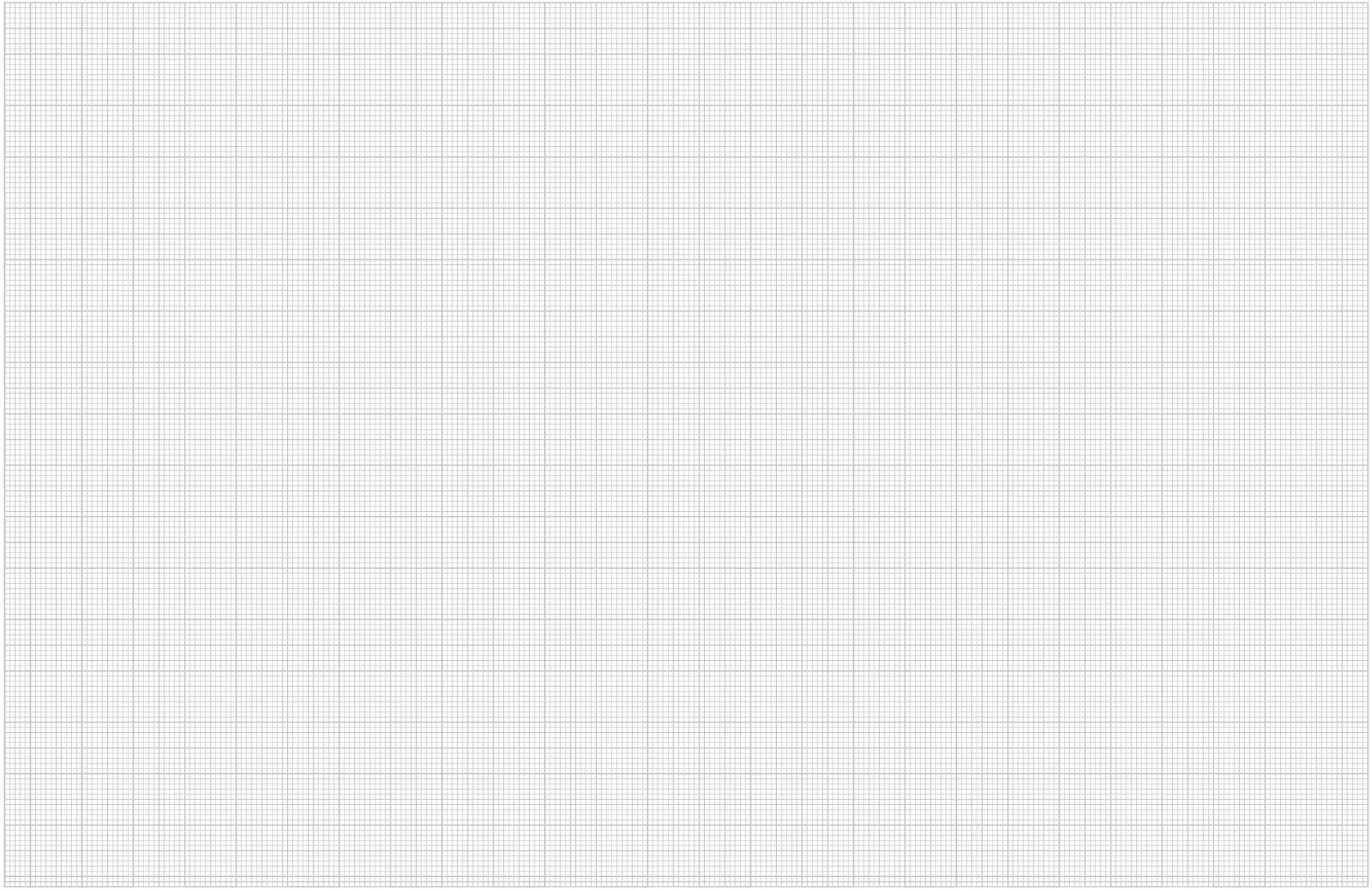

Planning aids, cable and pipe fastening systems, special

Mounting aid, installation strip	108
Mounting aid, cable and pipe fastening systems, special	110

Loads, installation strip

Assignment of different load types to the columns A, B and C

When two loads are combined, the value of the worst case applies.

In addition, the table values only apply under the following conditions:

- The load of the installation strip 5055 may only be placed in the round holes.
- In the case of screw fastenings in the last hole, there must be a complete bar above the hole.
- Screw sizes appropriate to the appropriate installation strip must be used (M5 for Size I, M6 for Size II, M8 for Size III).
- The screws must be tight. The use of smaller or loose screws causes a strong drop in the break load.

Explanation of load cases of installation strips

Load	1	2	3	4	5	6	7	8	9	10
Minimum breaking load according to column	A	B	A	C	B	2xB	2xB	A	B	A

Minimum break load of perforated straps 5055 and 5062 for the different applications:

Type	Item no.	Minimum breaking loads N	Minimum breaking loads N	Minimum breaking loads N
		A	B	C
5055	1470124 1470175 1470264	2,150 3,050 6,750	1,850 2,000 6,750	1,650 1,800 3,300
5055/L	1471120 1471171 1471260	1,150 2,200 5,350	1,400 1,500 2,800	1,200 1,300 2,400
5055/ L PE	1473220 1473271 1473360	1,500 2,300 4,700	1,500 2,300 4,250	1,300 1,700 4,000
5062	1475126 1475177 1475266	1,600 2,350 4,700	1,600 2,350 4,700	2,150 3,050 3,700
5062/L	1475622 1475673 1475762	1,300 1,650 3,800	1,300 1,650 3,800	1,300 1,300 3,200

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Loads, installation strip

Load 1: Smooth belt
Minimum breaking load according to column A

Load 2: Screwed to flat suspender
Minimum breaking load according to column B

Load 3: Screwed to flat suspender, belt end doubled, free end of belt inside
Minimum breaking load according to column A

Load 4: Screw under the ceiling with bolt and washer
Minimum breaking load according to column C

Load 5: Screwed under the ceiling with bolt, belt end doubled, free belt end down
Minimum breaking load according to column B

Load 6: Belt wound around flat eyelet and pipe or similar
Minimum breaking load according to column 2 x B

Load 7: Pipe or similar fastened to wall with belt
Minimum breaking load according to column 2 x B

Load 8: Pipe or similar suspended from belt
Minimum breaking load according to column A

Load 9: Belt end screwed to pipe clamp
Minimum breaking load according to column B

Load 10: Belt end screwed to pipe clamp, belt end doubled
Minimum breaking load according to column A

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Mounting aid, special cable and pipe fastening systems

The cable and pipe fastenings of the special system include cable ties, fastening straps and installation strips, with which cable and pipe installations can be fastened to cable support systems such as cable or mesh cable trays or other mounting constructions. A complete tensioning wire system to suspend and catch cable weights is also a component part of the special system.

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Mounting aid, special cable and pipe fastening systems

Pipe suspension with steel strip
Pipes can be suspended with installation strips. The installations strip consists of a metal core with plastic jacketing.

Cable fastening on suspended chain
Cables can be fixed to and run on a chain using cable ties.

Fixing within a cable tray
Bundles of cables in cable trays can be protected against slippage by fixing with cable ties.

Suspension with installation strip
The installation strip can be fastened to the ceiling in many different ways. Here, with a screw on a Rabitz coupler, type 2083.

Suspension with installation strip
The installation strip can be fastened to the ceiling in many different ways. Here, it is directly suspended from a TS ceiling hook, type 2989, which can be screwed onto an M6 thread.

Steel wire tensioning cable systems
Steel wire tensioning ropes can be used to support cable weights.

Use of cable ties and ribbon clips
Pipes and cables can be fastened beneath cable trays using cable ties and ribbon clips.

Fastening with installation strip
Clips can be quickly bent into any shape using the installation strip, to fasten installation pipes for cable to the floor using OBO anchors, type 903/RB and flatteners.

Impu-Fix adhesive application
Ribbon conductors can be fastened with the Impu-Fix adhesive. Apply the adhesive to both sides with a brush and stick on the cable after drying. Fix the ribbon conductor using gentle knocks with a rubber mallet.

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Planning aids, pipe systems

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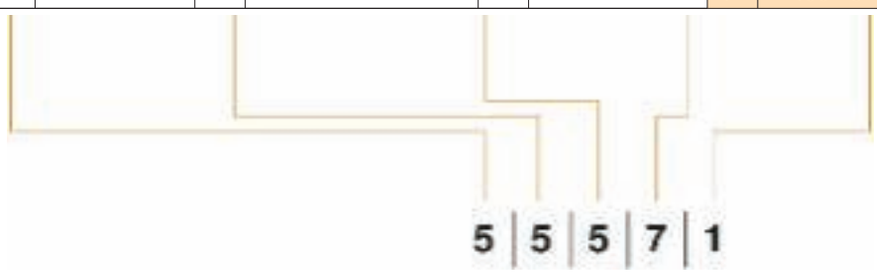
Classification of pipe systems according to DIN EN 61386-1
The OBO Bettermann pipe systems are machined and tested according to DIN EN 61386 "External diameters of electrical installation pipes and thread for electrical installation pipes and their accessories" and DIN EN 60423 "Electrical installation pipe systems for electrical energy and information".

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. The table below provides an overview of the different meanings of the numbers.

Numeric code on the product

Classification code according to DIN EN 61386 with application example (orange)

	First digit		Second digit		Third digit		Fourth digit		Fifth digit
	Pressure resistance		**Impact resistance**		**Minimum use temperature**		**Maximum use temperature**		**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	Bendable, self-healing
4	Heavy (1250 N)	4	Heavy (2.0 kg/300 mm)	4	– 25 °C	4	+ 120 °C	4	Flexible
5	Very heavy (4000 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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Pipe properties by routing location

Corrosion protection according to routing location

Before commencing installation, it is important to select the appropriate installation pipe, as not each pipe is suitable for each application.

Electrogalvanised pipes and pipes painted black are designed for interior applications, whilst hot galvanised steel armoured pipes as well as stainless steel and aluminium pipes can also be installed in external applications.

Protection against mechanical loads

OBO steel armoured 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.

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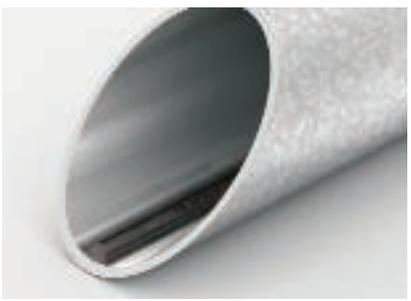
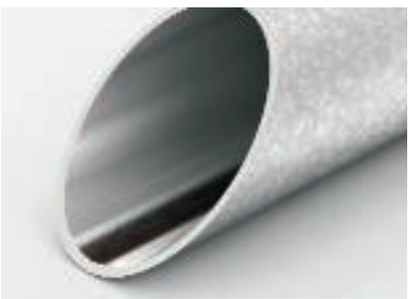
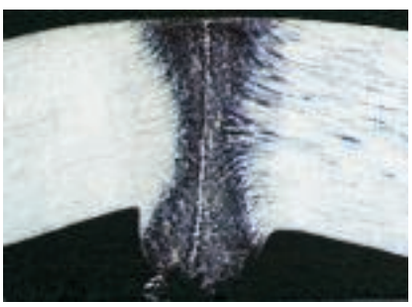
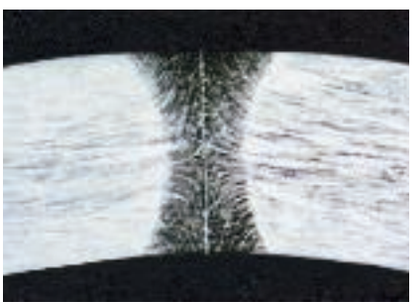
No compromises. More effective work with precision steel armoured pipes









Structure with weld seam area, not scraped

Structure with weld seam area, scraped

Increased precision, simpler installation

When producing steel pipes, the machining process creates a bulge along the welding seam. When cables are pushed through, this creates friction, thus impeding the installation.

The OBO precision steel armoured pipes have the annoying bulge removed directly after welding. This means that the inside of the pipes is completely smooth – and cables can be pushed through without any problems. This saves the installation engineer valuable time.

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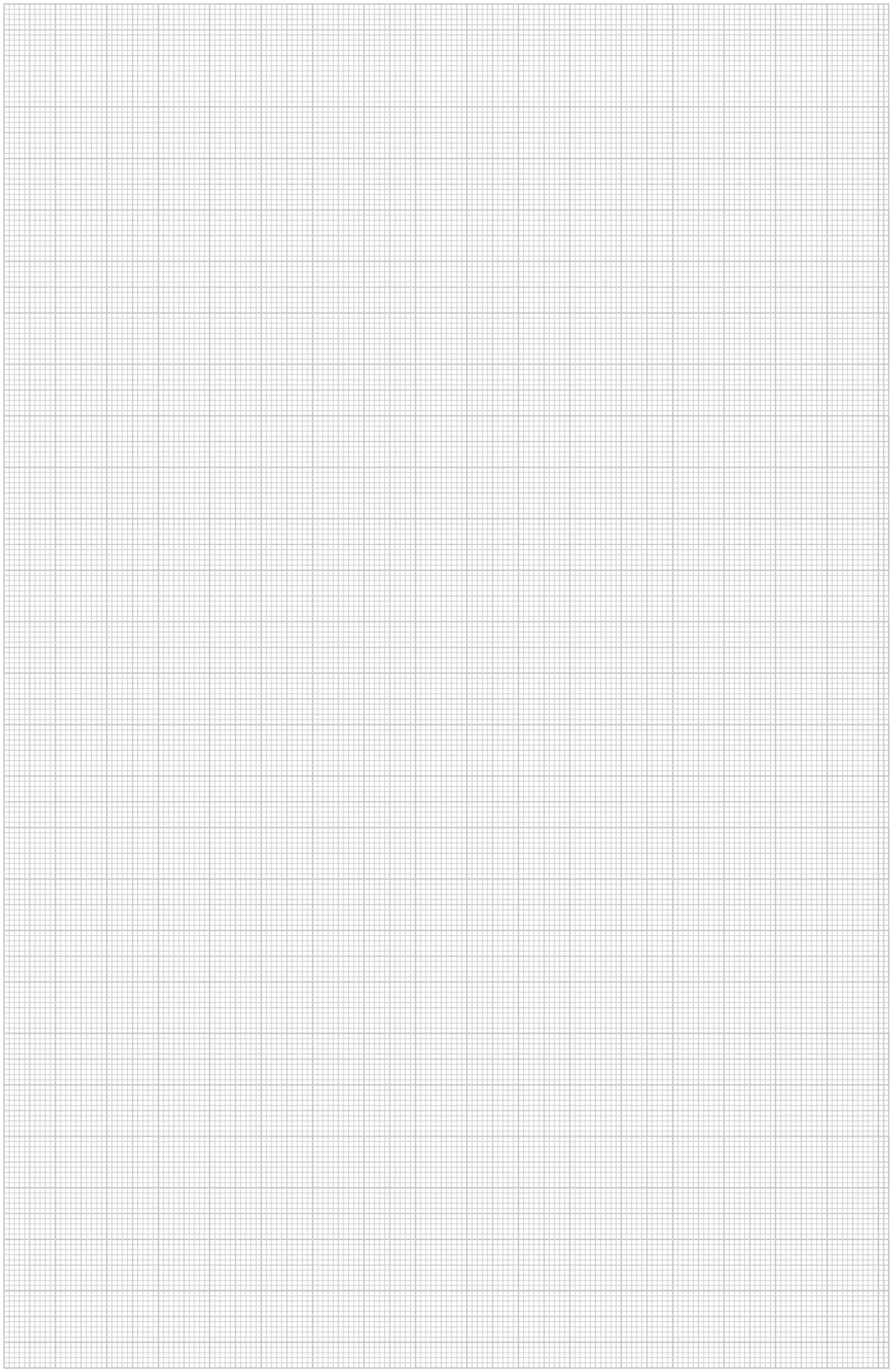

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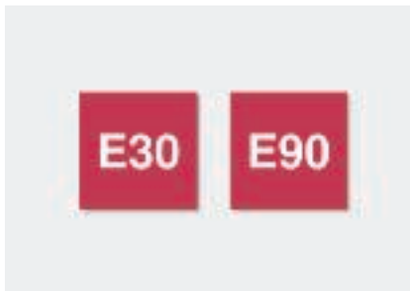
Double safety: perfect protection for very heavy mechanical loads and function maintenance in case of fire

Protection against mechanical loads
OBO reinforced steel pipes are particularly suitable for 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.

Function maintenance E 30/E 90
Our steel pipes guarantee function maintenance to E 30/E 90. They are thus ideal for the connection of safety-relevant equipment, such as fire alarm systems.



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Mounting aid, pipe systems, metal

Besides the electrogalvanised, black painted and hot-dip galvanised pipes, the metal pipe system includes systems made of rust-proof stainless steel (V2A and V4A) and aluminium. Fittings such as 90° pipe bends and pipe connection sleeves are also part of the portfolio. Metal pipes are particularly suitable for applications with high mechanical loads, such as those in industry.

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Mounting aid, pipe systems, metal

Fastening with metal clips
Metal pipes can be fastened to the wall with double-lobe metal clips, type 605.

Connection sleeve SVMxx
Connection sleeves can be screwed onto metal pipes with threads.

Connection between pipes
Pipes can be interconnected and connected to 90° pipe bends using connection sleeves.

Connection between pipes
Interconnected pipes are combined into a closed unit.

Plug connection
Pipes without a threaded connection can be extended with plug-in sleeves. 90° pipe bends can also be connected with a pipe using a plug-in sleeve.

Plug connection between pipes
Plug-in sleeves allow the combination of interconnected pipes into a closed unit.

Cable installation
After fastening the metal pipes, the cables can be pulled directly into the electrical installation pipe.

Complete installation
After installation, we have a closed systems. The pulled-in cables are protected against mechanical loads.

Pipe end socket application
The end sockets prevent damage to the cables by any burring on the cutting edge, particularly in the case of shortened pipes. Simply plug the end socket onto the pipe.

Stapa pipe with end bush
After attachment, the sleeve holds itself on the end of the pipe.

Pipe end socket application
Now pull cables through the pipe.

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Mounting aid, pipe systems, Quick Pipe

The plastic pipe system contains the OBO Quick Pipe as a duct pipe, in which cables can be inserted as in a duct. Turning-in to the OBO Quick Clip causes the OBO Quick Pipe to close, surrounding the cables like a closed pipe. The system also includes accessories like fittings such as 90° bends, T pieces and connection sleeves.

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Mounting aid, pipe systems, Quick Pipe

Cable routing in the Quick pipe
Insert the installation cable into the opened Quick pipe.

Closing the Quick pipe
Turn the Quick pipe in the Quick clip, thus closing the cover.

Fully connected Quick pipe
The closed pipe fixes the cable. The Quick pipe system is ideal for laying pre-terminated cables.

Mounting of the Quick pipe T piece
The T piece is a hood fitting and is placed on the pipe.

Complete mounting, T piece
Mounting is completed after locking on the front section. The T piece can be easily opened again using a screwdriver.

Mounting of Quick pipe bend
The bend is a hood fitting and is placed on the pipe.

Complete mounting, Quick pipe bend
Mounting is completed after locking on the front section. The bend can be easily opened again using a screwdriver.

Processing the Quick pipe
The Quick duct shears allow shortening of the Quick pipe into the required pieces, meaning that installation can commence.

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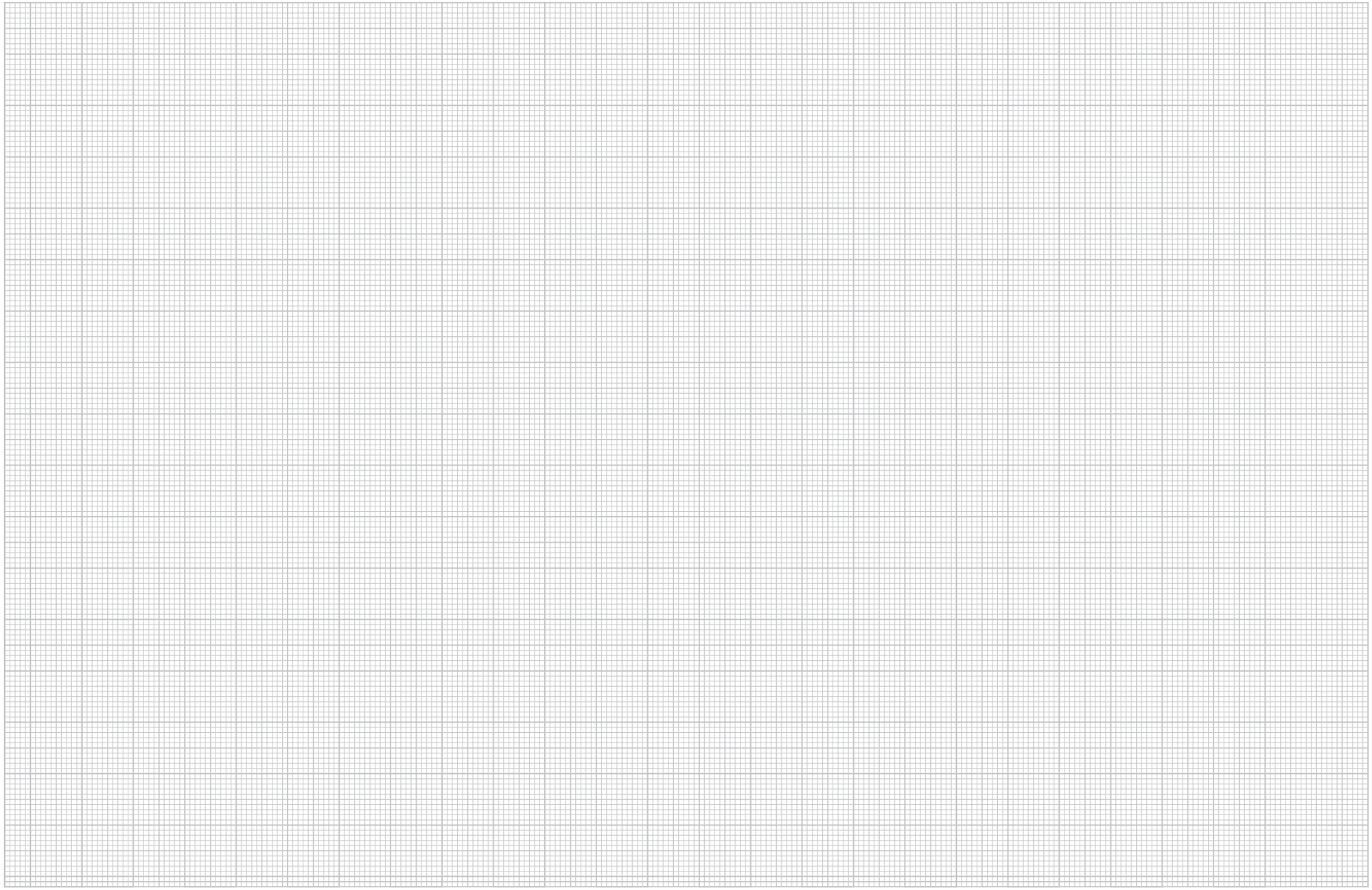

Mounting aid, beam clamps for knocking-in 126

Mounting aid, beam clamp

Beam clamps can be used on various steel girder constructions, in order to install additional components beneath the steel girder construction. It is important to take the appropriate clamping ranges and the thickness of the support or flat iron into account. The range of beam clamps and systems permits various applications, e.g. fastening of ribbon clips and pipe systems. Beam clamps are available in two variants: for knocking onto the flange and for screwing onto the flange. With the knocking variant, the beam clamps grab the metal, whilst, with the screw-on variant, the bolt clamps the flange to the beam clamp.

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Mounting aid, beam clamp

Opening of beam clamps
Beam clamps are attached to the flange and they then grab it.

Screwing on of beam clamps
Screw-in beam clamps are pushed onto the flange and the flange clamped using the bolt in the beam clamp.

Beam clamps for pipes
Use of screw-in beam clamps with directly fastened pipe seat.

Beam clamp mounting
Installation of strike beam clamp and suspension chain for luminaire installation.

Beam clamp mounting
Mounting with knock-in beam clamps with thread and screw-in spacer clip 732 for mounting installation pipes.

Beam clamp mounting
Installation of strike beam clamp and fastening of threaded rods with connection sleeve.

Beam clamp mounting
Installation of beam clamps and installation tube parallel to flange.

Beam clamp mounting
Installation of screw-in beam clamps and installation tube parallel to flange.

Beam clamp mounting
Installation of beam clamps and installation tube vertical to flange.

Beam clamp mounting with type 328
Movable fastening of two beam clamps and a profile rail.

Beam clamps, type 328
Movable fastening of two beam clamps and a profile rail. This allows mounting structures beneath steel girders.

Beam clamp installation
Beam clamps can be knocked onto the flange both in a horizontal and a vertical position.

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Beam clamp application, type 339
With beam clamps of type 339, profile rails can be variably fastened to steel girder using terminal strips.

Pipe clip application, type TKCI
The beam clamp as a pipe clip is used to route pipes or cables in steel girders.

Beam clamp application with hinge
Hinged beam clamps can be used for suspensions on sloping steel constructions. Fastening on the beam is achieved using terminal strips.

Visible rail terminal application
The visible rail terminal TKD and the locknut TKD-G allow easy fastening of constructions to ceiling profiles.

S-hook application
The hole of diameter 6.7 mm can accept an appropriately dimensioned S-hook.

Wire cable application
The vertical opening (rear side 8 x 9.5 mm) of the beam clamp permits an application with a wire cable.

Threaded rod application
Threaded rods of the dimension M6-M8 can be mounted on the opening on the back (8 x 9.5 mm).

Threaded rod application
Additional connections to flat irons (turned support clamps) can be created using threaded rods of the dimension M6-M8.

Cable tie application
Due to its opening (8 x 9.5 mm), the beam clamp can accept cable ties or straps with widths of up to 9 mm.
This means that pipes or cables can be fastened without any trouble.

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Beam clamp, heavy-duty version, application
The beam clamp can be fixed on support systems and flat irons. If necessary, the double nipple, type 3100 M8, or an M8 threaded rod can be used on the clip element. The figure shows a connection with the cable and pipe spacer clip.

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Planning aids, profile rail systems

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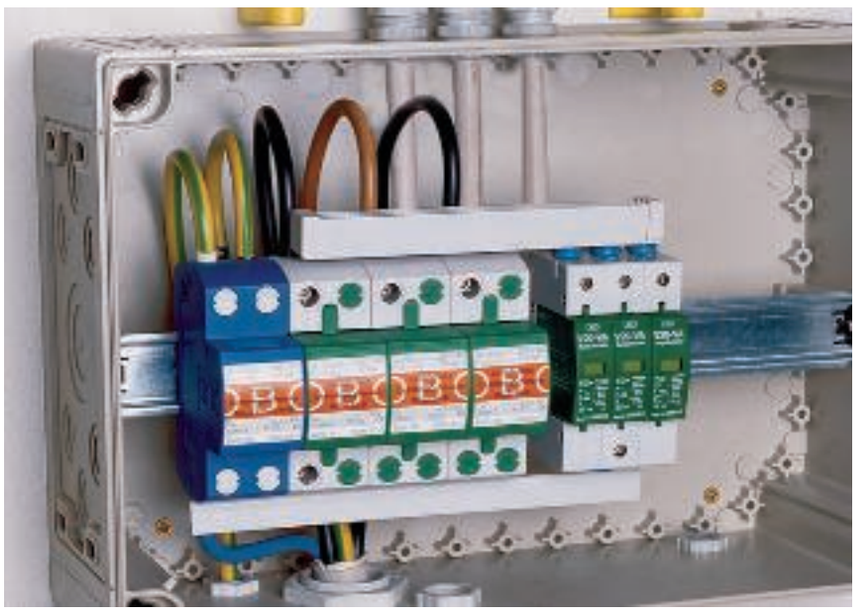
Information on hat profile rails



The OBO hat/G support rails are machined according to DIN EN 60715. According to the standard IEC 60947-7-2, steel support rails are approved as a protective conductor bus bar (PE function), however not as a PEN function!

Article type	Material (material thickness)	Short-circuit resistant ^= E CU cable (mm²)	Short-time withstand current 1 s
46277 GTP	Steel (1 mm)	10 mm²	1.2 kA
46277 GTPL	Steel (1 mm)	10 mm²	1.2 kA
2069	Steel (1 mm)	16 mm²	1.92 kA
2069S	Steel (1 mm)	16 mm²	1.90 kA
2069 GTP	Steel (1 mm)	16 mm²	1.92 kA
2069 GTPL	Steel (1 mm)	16 mm²	1.90 kA
2069/15 GTP	Steel (1 mm)	16 mm²	1.92 kA
2069/15 GTPL	Steel (1 mm)	16 mm²	1.90 kA
2069/15 GTP	Steel (1.5 mm)	35 mm²	4.2 kA
2069/15 GTPL	Steel (1.5 mm)	35 mm²	4.1 kA
2069/15 GTP	Steel (2.5 mm)	50 mm²	5.9 kA
2069/15 GTPL	Steel (2.5 mm)	50 mm²	5.8 kA
2064 GTP	Steel (1.5 mm)	35 mm²	4.2 kA
2064 GTPL	Steel (1.5 mm)	35 mm²	4.1 kA
(Rounded values)	Cross-sections calculated according to IEC 60439-1/EN 60439-1/VDE 0660-500 Table 3.	Relevant cross-section range according to DIN VDE 0100-540 Table 54.3.	

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Mounting aid, hat profile and support rail

The OBO rail system contains hat rails, support rails and profile rails with slot widths of 7.5 to 22 mm. Electrical components such as terminal strips, contactors and fuses can be locked on and connected to hat and support rails. When profile rails are used as mounting rails, small and larger mounting areas can be created, but classic fastening of BBS clamp clips is, of course, also possible. In this programme, you can find the right rail, both for cable ladders and for simple wall mounting. By using the available accessory parts such as hammer-head and hook-head bolts, slide nuts or also series clips for cable fastening, you'll always find the right solution.

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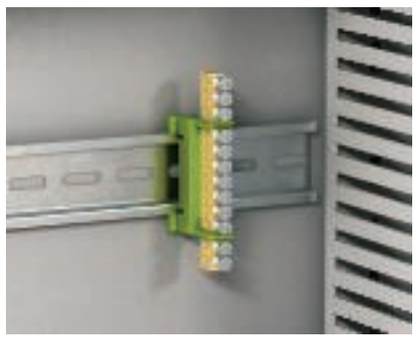
Mounting aid, hat profile and support rail

Hat profile rail application
If wiring is carried out using series terminals, then junction boxes should be used with mounted or inserted hat profile rails.

Hat profile rail application
Hat profile rails are usually used in switching and distributor cabinets.

Series-mounted device on hat profile rails
The hat profile and support rails can be used as a protective conductor bus bar but not as a PEN conductor. Series-mounted devices (REG) or series terminals can be locked onto the hat profile rails.

Installation of lightning current and surge arresters
Hat profile rails can be used for modular applications. For example, this could be the ProtectionSet, type PS-VA..., from the TBS transient and light protection range.



Hat profile rail for modular applications
Neutral and protective conductor terminals can be locked onto hat profile rails.

Shortening of hat profile rails
The hat profile and support rail cutting device, type HTS 35, allows the shortening of hat profile rails to almost any length without burring. The hat profile and support rail cutting device is equipped to handle the four most common profiles.

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Mounting aid, profile rail

Overview of profile rail variations
A large range of profile rails are available: various materials, various material thicknesses, various profiles with appropriate slot widths, various hole patterns and the required accessories for each profile, comprising slide nuts, hammer-head bolts and BBS clamp clips.

Protective cap application
The OBO product range contains orange protective caps for some of the profile rails, in order to minimise the risk of injury.

Use of hammer-head bolts
Hammer-head bolts and slide nuts allow fastening of additional components on profile rails. Hammer-head bolts and slide nuts are adjusted to the slot width of the profile rail and can be shifted within the profile rail.

Clamp clip mounting in profile rails
With the different base shapes, BBS clamp clips can be suspended in the appropriate slot widths of the profile rails.

Fastening the clamp clips
Clamp clips can be fastened to the profile rails to fix cables or pipes.

Series clip application
Cable weights can be supported beneath a switch and distributor cabinet using series clips of types 2049–2055. Series clips can be moved in the profile rail, cables are clamped between two clips.

Rung seat in steel girder
Direct fastening (clamping) of the rung seat, type SAA, with profile rail, type CPS 4, on steel girder.

Constructions beneath steel girders
Profile rail, type 1269, combined with two beam clamps, type 328. This allows structures to be created under steel girders.

Mounting of profile rails with clamping lug
Clamping lugs can be used to fasten profile rails under steel girders.

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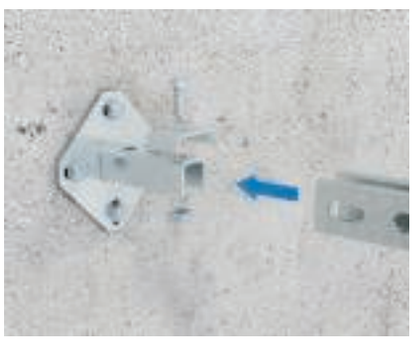
Mounting aid, rail systems MS21/MS41

Slide nut mounting in profile rails
The slide nuts for slot width 22 mm can be inserted into the profile rail MS 41 by sliding or turning them in.

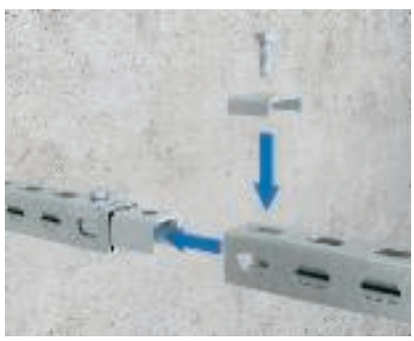
Shifting of the slide nut in profile rails
Pushing the sprung slide nut together unlocks the slide nut in the profile rail. This makes it easier to move the slide nut.

Use of the hammer-head bolt
For the MS 41 profile rails there are hammer-head bolts fitted with a tensioning spring and toothing. The tensioning spring fixes the hammer-head bolt on the rail, thus simplifying installation, in particular in overhead mounting.



Mounting of wall, floor and ceiling brackets
In conjunction with the holder, the MS 41 profile rail can be attached on the wall, on the floor and on the ceiling.
The profile rail is pushed on the holder and fastened using two bolts. For greater loads, we recommend a connection with 4 bolts.

Mounting of the rail connector
The rail connector is used to interconnect two profile rails.



Mounting of the rail connector
The profile rails are pushed onto the rail connector and connected using 2 bolts. Mounting with this rail connector ensures that there is no static weakpoint in the connection area of individual rails.

Mounting bracket to connect profile rails
Panels and frames are erected using the mounting bracket. The profile rails can be interconnected at an angle of 45°.

Omega clamp as connection element
The omega clamp is used to interconnect profile rails of various dimensions in a cross shape.

90° angle connector
The angle connector is used to interconnect two profile rails at a right angle.

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Cross-connector
The connection plate is used when cross-connectors (4 profile rails MS 41) are to be interconnected.

Application of the accessory MS21/MS41
The overview shows application examples of the MS21/MS41 mounting rail range.

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Planning aids, BBS clamp clip systems

Mounting aid, BBS clamp clip systems 140

Mounting aid, BBS clamp clip systems

Clamp clips allow cables and pipes to be fastened to profile rails. Clamp clips are available with three standard base shapes and can be hooked into the appropriate slot widths of the profile rails. The component to be fastened is pressed onto the profile rail with the pressure trough of the clamp clip and held in place. Various versions of profile rails are available for mounting on angle or flat irons and on round profiles. There are special versions of BBS clips available for bundling multiple installation cables and fixing single-wire cables in rotary current systems.

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Mounting aid, BBS clamp clip systems

Ceiling mounting
Cable mounting on profile rails with clamp clips.

Ceiling mounting
Cable mounting on profile rails with clamp clips.

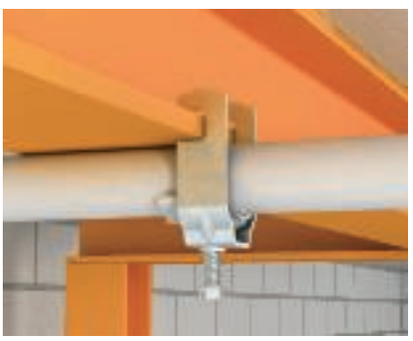
Wall mounting
Cable mounting on profile rails with clamp clips.

Wall mounting
Cable mounting on profile rails with clamp clips.

Mounted clamp clips
Complete cable installations and mounting with clamp clips on wall and ceiling.

Base shape variants
With the different base shapes, BBS clamp clips can be suspended in the appropriate slot widths of the profile rails.

Mounting on angle profile
Clamp clips of type 2056W fasten cables or pipes to angle profile with a hip length of 40 mm.



Mounting on flat iron
Clamp clips of type 2056F fasten cables or pipes to flat irons with a material thickness of 4–12 mm.

Three single-wire clamp clip
The BBS clips 2056/E and 2056U/E are suitable for system routing of single-wire cables in rotary current networks. The arrangement of the external cables remove the magnetic fields, meaning that no excessively high heating need be expected.

Bundle clip
Clamp clips of type 2056/B are particularly suitable for routing/fastening multiple installation cables in small areas.

Pipe fastening with clamp clips
Clamp clips are also suitable for fastening pipes.

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Planning aids, screw-in and knock-in systems

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Information on screw-in and knock-in systems

With the friction closing method, the anchors/ties maintain their load through friction in the mounting substrate. Usually, push-through mounting is used here, in which the anchor/tie is pushed through the fastening hole of the mounting component and then both are fixed in the drill hole.

With fitting, the geometry of the anchor/tie adapts itself to the mounting substrate (drill hole). Here, pre-attachment mounting is used, in which the anchor/tie is first placed in the drill hole and the mounting part fastened separately afterwards.

The use of a mortar which fixes the anchor/tie in the mounting base is termed the material closing method.

Selection criteria for ties and anchors

When selecting the anchor/tie, factors such as the substrate and its characteristics, the mounting type and the load of the anchor have a role to play. Therefore, the following basic questions should be asked when selecting the anchor/tie:

- What is the mounting substrate?
- Are there edge or axis spacings to be taken into account?
- How thick is the mounting substrate? Can I maintain the required drill hole depths?
- Which mounting type is the right one for fastening the component?
- Is the anchor/tie required for cracked or uncracked concrete?
- Is it an application for function maintenance? Do the anchors/ties have the appropriate approval?
- Are there any corrosion protection requirements of the anchor/tie?

Requirements of the Model Building Regulations

To provide the core statement for supporting constructions, it is possible to quote the Model Building Regulations of November 2002. Paragraph 3 states, amongst other things, that "Systems are to be arranged, erected, modified and maintained in such a way that public safety and order, and in particular life, health and natural requirements for life, are not endangered". Therefore, for applications, for example, in the field of cable support systems, only approved ties and anchors should be used.

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Mounting aid, nails and OBO knock-in anchor

Many different materials are used in the construction industry. As an installation engineer, you must install anchors, bolts, knock-in anchors, nails and bolt ties in all kinds of wall materials. These different wall materials have different properties. Some substrates are hard, others soft, some are solid, whilst others have cavities. Therefore, we have matched our fastening components to the different wall properties. We can offer the right fastening material for any substrate.

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Mounting aid, nails and OBO knock-in anchor

Sprint screw with angler straddling dowel
The Impu nail is placed in the separating retainers of the ribbon conductor.

Siko nail application
The Siko nail is placed in the separating retainers of the ribbon conductor.

Hook nail application
Knock the hook nail into the mounting substrate. Care must be taken here that the pipe is not deformed too much. For this reason, fastening cables with hook nails is critical.

Sprung hinged and tilting anchor application
OBO anchors 903 and 904 are simply knocked into the substrate without drilling. Special flatteners are available to knock the anchors in safely.

OBO anchor application, type 903/RB with installation strip
OBO anchors without threads, such as the 903/RB, are suitable for fastening installation strips, for example on raw concrete.

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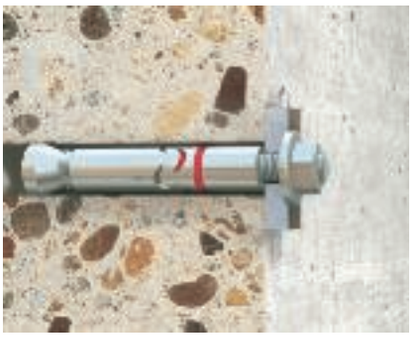
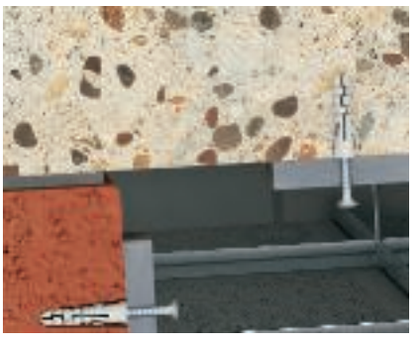
Mounting aid, anchor



Heavy-duty anchor, type FH
Heavy-duty anchor, type FH, with M12 threaded connection for fastening components with large loads, load capacity 8.26 kN.

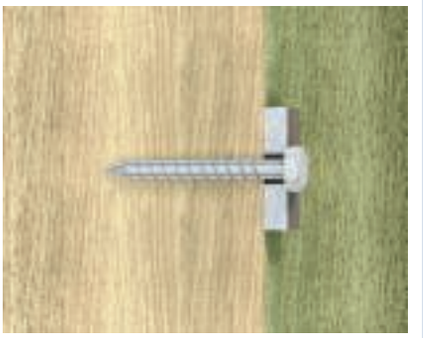
Multipurpose anchors 910/MZ
Sprint screw 4759 in a multipurpose anchor 910/MZ, for use in hollow tiles. The multipurpose anchor locks into the cavity.

Knock-in anchor, type 910/SD
Mounting parts are fastened in concrete or full brick using the push-through method using knock-in anchors 910/SD. The knock-in anchor is made of plastic and is knocked in together with the conical bolt. The fastening can be regulated by turning the bolt.



Sprint screw with angler straddling dowel
Sprint screws 4759 and expansion anchors 910/N can be used to fasten components to concrete walls. Use on walls or under ceilings

Porous concrete masonry
Plastic anchor, 910/GD, for knocking into gas or porous concrete and to accept Sprint screws.



Hexagonal wood screw, type 12400
Components can be fastened to wooden beams or supports using wood screws. The wood screws have a hexagonal head as their drive.

Fire protection bolt tie MMS
No plastic anchors are required for the use of a bolt tie. The bolt tie is screwed directly into the blown out hole.

Tie bolt, type FAZ II
Tie bolt, type FAZ II, to fasten heavy-duty anchors in reinforced or non-reinforced normal concrete C20/25 to C50/60, suitable for push-through mounting, with connection thread M8, M10 or M12, load capacity 4.3 kN (M8), 7.6 kN (M10), 11.9 kN (M12). Suitable for function maintenance.

Angler anchor application with Sprint screw
Insert the angler anchor into the drill hole and fasten the clip using a Sprint screw.

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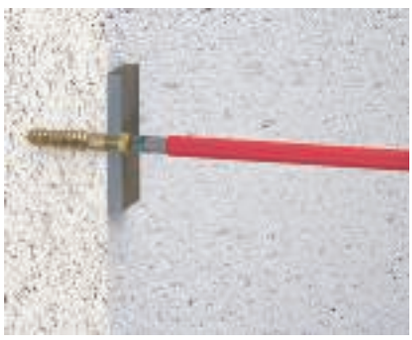
Knock-in anchor 910/SD application
Push the knock-in anchor 910/SD through the fastening hole of the mounting hole and into the drill hole. Fix the knock-in anchor in the drill hole using the hammer. The spreading of the anchor means that the mounting part is fixed to the wall or under the ceiling.

Knock-in anchor 910/SD-Q application
The knock-in anchor, type 910/SD-Q, is pushed into through the fastening hole of the Quick clip. The knock-in anchor is fixed in the drill hole using a screwdriver and a hammer. The spreading of the anchor means that the clip is fixed to the wall or under the ceiling.

Metal spreading anchor MD application
In low-resistance porous concrete, knock in the metal spreading anchor directly.



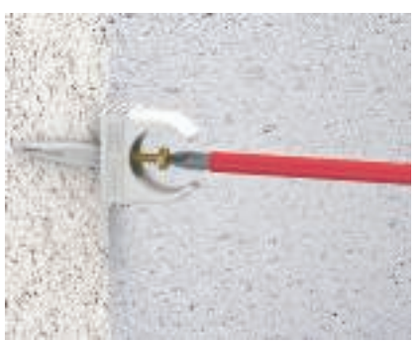
Metal spreading anchor MD application
Fasten the mounting section using a Sprint or Golden Sprint screw.

Golden Sprint screw and multipurpose anchor
The multipurpose anchors of type 910/MZ are suitable for hollow bricks, full brick and concrete. The moulded fins (rotation locks) prevent it from turning in the drill hole. The plastic edge prevents the anchor from slipping through the drill hole. The anchor locks into the cavity of cavity bricks. In solid, full-surface substrates, the anchor is kept in the drill hole by the pressure.

Sprung hinged and tilting anchors
Tilting or sprung hinged anchors are used for mounting on suspended ceilings or in cavity walls. The sprung-hinged mechanism means that the anchor can be inserted in a relatively small drill hole in the ceiling.

Sprung hinged and tilting anchors
The spreading of the side wings creates a contact surface on the plate. Turning the thread moves the hook to the right position and locks it with the nut.

Gas concrete anchor application
Knock the anchor 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 predrilled.



Gas concrete anchor application
Fasten the Quick clip in the anchor using a Sprint screw.

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Mounting aid, bolts

Ceiling hook application with multipurpose anchor
Using a screwdriver, turn the hook into the anchor at least as far as the end of the thread.

Bolt tie MMS-ST application
Using steel cables or cable locks, luminaires can be mounted to the mounted ring eyelet, for example.

GOLDEN SPRINT screw application
The GOLDEN SPRINT screws are ideally suited for fastening components together with angler or multipurpose anchors.

GOLDEN SPRINT screw application
When using plastic anchors, the Hostaflon-coated surface and the two-gang thread of the bolt reduce the screw-in time considerably.

GOLDEN SPRINT screw application
The GOLDEN SPRINT screws are available with Pozidrive or T-bit panheads.

Hexagonal wood screw, type 12400
Components can be fastened to wooden beams or supports using wood screws. The wood screws have a hexagonal head as their drive.

Fire protection bolt tie MMS
No plastic anchors are required for the use of a bolt tie. The bolt tie is screwed directly into the blown out hole.

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Test marks

	AENOR, Producto Certificado, Spain
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland
	CEBEC, Belgium
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark
	Det Norske Veritas
	ATEX certificate for explosive areas
	ELEKTROTECHNICKÝ ZKUŠEBNÌ ÚSTAV, Czech Republic
	FIMKO, Finland
	Russia, GOST The State Committee for Standards
	KEMA-KEUR, Netherlands
	Indication of metric products
	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
	Underwriters Laboratories Inc., USA
	SEMKO An Inchcape Testing Services Company, Sweden
	Eidgenössisches Starkstrominspektorat, Switzerland
	Underwriters Laboratories Inc., USA
	Underwriters Laboratories Inc., USA
	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany

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Pictogram explanation

Surfaces

FS	Strip-galvanised
st	Strip-galvanised/plastic-coated
BK	Bright
F	Hot-dip galvanised
G	Electro-galvanised
El	Electrogalvanised/plastic-coated
GGP	Electrogalvanised, yellow passivated
GTP	Electrogalvanised, transparently passivated
FT	Hot-dip galvanised
Cu	Copper-plated
N	Nickel-plated
ZD	Galvanised, Deltatone 500
ZDM	Galvanised, MAGNI 565
FT	Hot-dip galvanised/SOMY
DD	Zinc-aluminium coated, double-dip
GA	Zinc-aluminium coated, Galfan

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

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

Nominal cross-section

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

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 54
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

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

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Pictogram explanation

Polarity

3	3-pole
5	5-pole
7	7-pole
8	8-pole
10	10-pole
12	12-pole

Clamp clip base shapes

N	Cable clip for C profile rail with slot width 11–12 mm
H	Cable clip for C profile rail with slot width 16–17 mm
U	Clamp clip for C profile rail with slot width 18–22 mm

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

Diameter

Ø 60	Diameter 60 mm
Ø 68	Diameter 68 mm
Ø 70	Diameter 70 mm
Ø 74	Diameter 74 mm

Gland thread

M	Thread metric
Pg	Thread Pg

Screw heads

	Philips screw
	Torx screw
	Phillips screw
	Pozidrive

Entry size

M20	M20 entry
M25	M25 entry
M32	M32 entry
M40	M40 entry

Materials

	Flat steel
	Angular steel
	U steel
	Round material

Firing devices

	Bolt-firing tool
	Nail device

BSS test marks/material class

E30	Function maintenance class E30
E90	Function maintenance class E90

KTS side heights

	Cable tray, side height 35 mm
	Cable tray, side height 60 mm
	Cable tray, side height 85 mm
	Mesh cable tray, slant height 35 mm
	Mesh cable tray, slant height 55 mm

BSS function maintenance installation

	Escape route ceiling mounting with pressure clip
	OBO Grip, wall routing type
	OBO Grip, ceiling routing type
	Pressure clip, function maintenance, ceiling mounting

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Pictogram explanation

BSS anchor

	Fire protection anchor
	Fire protection bolt tie

Metals

Alu	Aluminium
VA	Stainless steel, grade 304
VA	Stainless steel, 1.4307
VA	Stainless steel, grade 301
VA	Stainless steel, grade 316
VA	Stainless steel, grade 316 L
VA	Stainless steel, grade 354/1
VA	Stainless steel, grade 316 Ti
CuZn 37	Brass
St	Steel
TG	Cast iron
Zn	Die-cast zinc

Plastics

ABS/ ASA	Acrylonitrile butadiene styrene
UF	Duroplast, Aminoplast, type 131.5
MF	Duroplast, melamine resin, type 150
EVA	Ethylene vinyl acetate
FA	Fibre-proof material DIN 28091
NBR SBR	Rubber mixture
NBR	Nitrile rubber
PA	Polyamide
PA/ GF	Polyamide, fibre-glass reinforced
PBPT	Polybutylene terephthalate
PC	Polycarbonate
PE	Polyethylene
PP/GF	Polypropylene, fibre-glass reinforced
PS	Polystyrene
PVC	Polyvinylchloride
ZELL PE	Cellular polyethylene

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Metallic materials

Alu — Aluminium

VA (1.4301) — Stainless steel, grade 304

VA (1.4307) — Stainless steel, 1.4307

VA (1.4310) — Stainless steel, grade 301

VA (1.4401) — Stainless steel, grade 316

VA (1.4404) — Stainless steel, grade 316 L

VA (1.4529) — Stainless steel, grade 354/1

VA (1.4571) — Stainless steel, grade 316 Ti

CuZn — Brass

TG — Cast iron
Electrogalvanised

St — Steel

Zn — Die-cast zinc

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ABS/ASA — Acrylonitrile butadiene styrene

Temperature resistance: permanently up to 70 °C, briefly up to 85 °C and to about minus 40 °C.

Resistant to

Formic acid, citric acid, lactic acid.

Conditionally resistant to

Hydrochloric acid, sulphuric acid.

Unstable with

Acetone, petrol, benzene, solvents for paints and butyric acid, chlorine, acetic acid, nitric acid.

Risk of tension cracking

Relatively high, similar to polystyrene.

UF — Duroplast, Aminoplast, type 131.5

for boxes, glands and clips

Temperature resistance:
permanently up to 65 °C, briefly up to 90 °C and to about minus 40 °C.

Resistant to

Alcohol, ester, ether, benzene, petrol, mineral oils, greases, weak alkalis, water.

Conditionally resistant to

Weak acids.

Unstable with

Strong acids, strong alkalis.

Risk of tension cracking

Low risk of stress cracks.

MF — Duroplast, melamine resin, type 150

For terminal blocks

Temperature resistance:
permanently up to 80 °C, briefly up to 110 °C and to about minus 40 °C.

Resistant to

Alcohol, ester, ether, benzene, petrol, mineral oils, greases, weak alkalis, water.

Conditionally resistant to

Weak acids.

Unstable with

Strong acids, strong alkalis.

Risk of tension cracking

Low risk of stress cracks.

EVA — Ethylene vinyl acetate

FA — Fibre-proof material DIN 28091

To DIN 28091, asbestos-free

Temperature resistance:
up to 300 °C.

NBR/SBR — Rubber mixture

NBR — Nitrile rubber

Temperature resistance:
permanently up to 120 °C, briefly up to 150 °C, and to about minus 30 °C.

Resistant to

Oils and petrol.

PA — Polyamide

Temperature resistance:
permanently up to approx. 90 °C, briefly up to about 130 °C and to about minus 40 °C*.
Chem. resistance generally as for polyethylene.

Resistant to

Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.

Unstable with

Bleach, most acids, chlorine.

Risk of tension cracking

Low in air-humid conditions; only with some aqueous salt solutions. Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.

PA/GF — Polyamide, fibre-glass reinforced

Temperature resistance:
permanently up to 100–110 °C, briefly up to 160 °C and to about minus 40 °C*.

Resistant to

Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.
Slightly susceptible to stress-cracking.

Unstable with

Bleach, most acids, chlorine.

Risk of tension cracking

Low in air-humid conditions; only with some aqueous salt solutions. Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.

PBPT — Polybutylene terephthalate

Thermoplastic polyester

Temperature resistance:
permanently up to 120 °C, briefly up to 140 °C and to approx. minus 40 °C.

Resistant to

Petrol, diesel oil, most weak acids, oils and greases.

Conditionally resistant to

Acetone, ammonia, benzene.

Unstable with

Strong acids, chlorine, fluorine, bromine vapour, bleach, trichloroethylene, methylene chloride.

Risk of tension cracking

Low.

PC — Polycarbonate

Temperature resistance:
permanently up to approx. 110 °C (in water 60 °C), briefly up to 125 °C, and to below minus 35 °C.

Resistant to

Petrol, turpentine, most weak acids.

Unstable with

Acetone, benzene, chlorine, methylene chloride, most concentrated acids.

Risk of tension cracking

Relatively low.
Media which can cause tension cracking include benzene, aromatic hydrocarbons, methanol, butanol, acetone, turpentine.

PE — Polyethylene

Temperature resistance:
hard types permanently up to about 90 °C, briefly up to about 105 °C, soft types permanently up to about 80 °C, briefly up to about 100 °C and to about minus 40 °C*.

Resistant to

Alkalis and inorganic acids.

Conditionally resistant to

Acetone, organic acids, petrol, benzene, diesel oil, most oils.

Unstable with

Chlorine, hydrocarbons, oxidising acids.

Risk of tension cracking

Relatively high.
Stress cracks can be caused by, among other things, acetone, various alcohols, formic acid, ethanol, petrol, benzene, butyric acid, acetic acid, formaldehyde, various oils, petroleum, propanol, nitric acid, hydrochloric acid, sulphuric acid, soap solutions, turpentine, trichloroethylene, citric acid.

PP — Polypropylene, fibre-glass reinforced

Temperature resistance:
permanently up to approx. 90 °C, briefly up to approx. 110 °C and to approx. minus 30 °C*.
Chem. resistance generally as for polyethylene.

Resistant to

Alkalis and inorganic acids.

Conditionally resistant to

Acetone, organic acids, petrol, benzene, diesel oil, most oils.

Unstable with

Chlorine, hydrocarbons, oxidising acids.

Risk of tension cracking

Low, only with some acids such as chromic acid, hydrofluoric acid and hydrochloric acid, as well as nitrogen oxide.

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Plastic materials

PS — Polystyrene

Temperature resistance:
Because of its relatively high sensitivity to the effects of chemicals, its use is not recommended at temperatures above normal room temperature, about 25 °C.
Resistance to cold: to about minus 40 °C*.

Resistant to

Alkalis, most acids, alcohol.

Conditionally resistant to

Oils and greases.

Unstable with

Butyric acid, concentrated nitric acid, concentrated acetic acid, acetone, ether, petrol and benzene, solvents for paints and lacquers, chlorine, diesel fuel.

Risk of tension cracking

Relatively high.
Stress cracks can be caused by, amongst other things, acetone, ether, petrol, cyclohexane, heptane, methanol, propanol and the softeners used in some PVC cable mixes.

PVC — Polyvinylchloride

Temperature resistance:
permanently up to 65 °C, briefly up to 75 °C and to about minus 30 °C.

Resistant to

Weak acids, alkalis, oils and greases, petrol.

Unstable with

Strong acids, benzene, acetone, iodine, toluene, trichloroethylene.

Risk of tension cracking

Low, only with some solvents such as benzene and acetone.

ZPE — Cellular polyethylene

*The minus values apply only for parts in the quiescent condition with no severe impact stress.
There is no plastic that is resistant to every chemical. The agents listed are only a small selection. Plastic parts are especially at risk in the presence of chemicals and high temperatures. Stress cracks may occur. If in doubt, please consult us and/or ask for a detailed chemical resistance table.
Stress crack formation: stress cracks may occur if plastic parts under tension are exposed to chemicals at the same time. Parts made of polystyrene and polyethylene are particularly susceptible. Stress cracks may even be caused by agents to which the plastic in question is resistant in the absence of stress. Typical examples of parts under constant stress when used as intended: grip clips, intermediate connectors of cable glands, ribbon clips.

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Chemical resistances of hard PVC

A = very good resistance
B = average resistance
C = not resistant

Medium	Temp. °C	Resistance
1.3-benzole disulphonic acid	20	A
1.3-butadiene	20	A
2.4-chlorobenzoyl chloride	20	A
2-amino-2.2-diphenylacetic acid	20	A
4-chlorine-2-nitroaniline	20	C
4-chlorobenzaldehyde-2-sulphonic acid	20	A
5-amino-2-hydroxybenzoic acid	20	A
Abietic acid	20	A
Acetaldehyde 100%	20	C
Acetaldehyde 40%	20	A
Acetaldehyde 40%	40	B
Acetaldehyde, acetic acid ratio 90:10	20	B
Acetanilide 100%	20	A
Acetates (ammonium-, Na- and others)	50	A
Acetic acid 10%	60	A
Acetic acid 100%	20	A
Acetic acid 100%	60	B
Acetic acid 25%	40	A
Acetic acid 25–70%	40	A
Acetic anhydride	20	C
Acetone	20	C
Acetophenone (methyl phenyl ketone)	20	C
Acetylacetone (2.4-pentanedione)	20	C
Acetylene 100%	20	B
Acetylsalicylic acid	20	A
Adipic acid	20	A
Adipic acid	60	B
Alcoholic drinks	< 40	A
Alizarin 100%	20	A
Alkanoic sulphonic acids	50	A
Allyl alcohol 100%	20	B
Allyl alcohol 100%	60	C
Allyl chloride	20	C
Aminobenzene (p-)	20	A
Aminobenzenesulphonic acid (m-, o-, p-)	20	A
Aminosalicylic acid (p-)	20	A
Ammonia (vapours of all concentrations)	40	A
Ammonia (vapours of all concentrations)	60	B
Ammonia, anhydrous, liquid	< 60	B
Ammonium hydroxide	60	A
Aniline 100%	20	A
Aniline chloride, saturated solution	20	C
Apple juice	60	A
Ascorbic acid	20	A
Aspartic acid	20	A
Beer	60	A
Benzine, containing benzole	20	C
Benzine, free from aromatic hydrocarbons	60	A
Benzoic acid	40	A
Benzoic anhydride	30	A
Benzole	20	C
Benzophenone 100%	20	C
Benzosulphonic acid	60	A
Benzotrichloride	20	C
Benzotrifluoride	20	C
Benzoylbenzoic acid	20	A
Benzyl chloride	20	C
Betene	20	A
Bleaching liquor, 12% active chlorine	40	A
Bleaching liquor, 12% active chlorine	60	B
Blood	40	A
Boiled oil	60	C
Borates (NA-)	20	A
Borax	40	A
Boric acid	20	A
Brewer's wort	20	A
Brine	60	A
Bromates (K-, Na-)	40	A
Bromic acid	20	A
Bromides (K-, Na- and others)	60	A
Bromine water	20	A
Bromine, gaseous, dry	20	A
Bromine, liquid	20	C
Bromobenzene	20	C
Bromochloromethane	20	C
Bromochloropropane	20	C
Bromoform 100%	20	C
Butane, gaseous, 30%	20	A
Butanediole over 60%	40	B
Butanediole over 60%	20	C
Butanediole to 10%	20	A
Butanol	60	A
Buttermilk	20	A
Butyl acetate	20	C
Butyl butyrate	20	C
Butyl chloride	20	C
Butyl glycolate	20	C

A = very good resistance
B = average resistance
C = not resistant

Medium	Temp. °C	Resistance
Butyl phenoles	20	C
Butyric acid 100%	20	C
Butyric acid 20%	20	A
Butyric acid 20%	60	C
Carbon dioxide	60	A
Carbon disulphide 100%	20	B
Carbon monoxide	60	A
Castor oil	60	A
Chlorates (K-, Na- and others)	20	A
Chlorates (K-, Na- and others)	60	B
Chlorates (K-, Na- and others)	60	A
Chloric acid to 20%	40	A
Chloric acid to 20%	60	B
Chlorides (ammonium-, Na- and others)	20	A
Chlorine cyanide	20	A
Chlorine water (saturated solution)	20	B
Chlorine, gaseous, dry 0.5%	20	A
Chlorine, gaseous, dry 100%	20	B
Chlorine, gaseous, moist 5%	20	B
Chlorine, liquid	20	C
Chloroacetaldehyde	20	C
Chloroacetic acid	20	A
Chloroacetones	20	C
Chloroacetylchloride	20	C
Chloroanilines	20	C
Chlorobenzaldehyde	20	C
Chlorobenzene	20	C
Chlorobenzotrifluoride	20	C
Chlorobenzoylchloride	20	C
Chlorocresoles	20	C
Chloroethylbenzene	20	C
Chloroform	20	C
Chloronaphthalines	20	C
Chloronitrobenzoic acid	20	A
Chromates (K-, Na- to 50%)	50	A
Chrome alum	60	A
Chromic acid	30	A
Chromic acid to 50%	40	A
Citrates (ammonium-, Na)	20	A
Citric acid	20	A
Citric acid	60	B
Cresol	20	C
Cumene	20	C
Cyanacetic acid	20	C
Cyanamide	20	A
Cyanides (K-, Na- to 50%)	60	A
Cyclohexanol	20	C
Cyclohexanone	20	C
Developer	40	A
Dextrose	50	A
Dibromomethylene	20	C
Dibutyl phthalate	20	C
Dibutyloxalate	20	C
Dichloroethylene	20	C
Dichloropropylene	20	C
Dichromates (K-, Na-)	50	C
Diethyl ether	20	C
Diethylamine 100%	20	C
Diethylene glycol	60	C
Dimethylether	20	C
Di-n-butylether	20	C
Diotylphthalate	20	C
Dioxan	20	C
Diphenyl	20	C
Diphenylamine	20	C
Ethane	20	A
Ethanol	40	A
Ethanolamine	20	B
Ethyl acetate	20	C
Ethyl acrylate	20	C
Ethyl chloride	20	C
Ethylbenzene	20	C
Ethylene glycol	20	A
Fish oil	20	A
Fixing bath	60	A
Fluorides (ammonium-, K-, Na- and others)	60	A
Fluorine	20	B
Fluorine	60	C
Formaldehyde	60	A
Formamide 100%	20	C
Formiates (ammonium- and others)	20	A
Formic acid 100%	20	B
Formic acid 100%	60	C
Formic acid 50%	40	A
Furfural	20	C
Furfuryl alcohol	20	C
Gelatine	60	A

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Chemical resistances of hard PVC

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Medium	Temp. °C	Resistance
Gluconic acid	20	A
Glucose	60	A
Glutamic acid	20	A
Glycerine	60	A
Glycine	40	A
Glycol	60	A
Heptanes	20	A
Hexachloroethane	20	C
Hexacyanoferrates-II (Na-)	40	A
Hexacyanoferrates-III (K-)	40	A
Hexafluorosilicates (ammonium-, K- and others)	60	A
Hexafluorosilicic acid 32%	60	A
Hexamethylenetetramine (urotropine) 40% aqueous solution	60	A
Humic acids	20	A
Hydrazine, diluted solution 100%	20	C
Hydrazine, diluted solution 30%	20	A
Hydrobromic acid to 40%	60	A
Hydrochloric acid to 30%	20	A
Hydrochloric acid to 30%	60	B
Hydrochloric acid to 37%	20	A
Hydrochloric acid to 37%	40	B
Hydrofluoric acid to 40%	40	A
Hydrofluoric acid to 60%	60	B
Hydrogen bromide 100%	20	A
Hydrogen bromide 100%	60	B
Hydrogen chloride (gaseous, dry and moist)	40	A
Hydrogen cyanide	40	A
Hydrogen peroxide to 30%	60	A
Hydrogen peroxide to 90%	20	A
Hydrogen sulphide	60	A
Hydroxides (alkaline-earth metal)	60	A
Hydroxides (K-, Na-)	60	A
Hypochlorites (K-, Na- and others)	60	A
hypochlorous acid	60	A
Illuminating gas	20	A
Iodates (K-, Na- and others)	60	A
Iodides (K-, Na-)	60	A
Iodine	20	C
Isobutylphosphate	20	C
Lactic acid 10%	20	A
Lactic acid 10%	60	C
Lactic acid 100%	20	C
Lard	20	A
Linoleic acid	60	A
Linseed oil	60	A
Malic acid	20	A
Material characteristics		
Methanol 100%	40	A
Methanol 100%	60	B
Methyl bromide	20	C
Methyl chloride	20	C
Methyl methacrylate	20	C
Methylamine	20	B
Methylene dichloride	20	C
Milk	20	A
Mineral oils	60	C
N,N-diethyl aniline	20	C
Naphthalene	20	C
Nitrates (ammonium-, K-, Na- and others)	60	A
Nitric acid 25%	20	A
Nitric acid 25%	60	B
Nitric acid 50%	20	A
Nitric acid 50%	50	B
Nitric acid 95%	20	C
Nitrites (K-, Na- and others)	60	A
Nitrobenzene	20	C
Nitrogen oxide	20	C
Nitroglycerine	20	B
Nitrous acid to 50%	50	A
Nitrous acid to 98%	20	C
Oleic acid	60	A
Oxalates (ammonium-, K-, Na- and others)	60	A
Oxalic acid	40	A
Oxygen	60	A
Ozone 10%	30	A
Ozone 10%	60	B
Palmitic acid	20	A
Paraffin	40	A
Pentyl laurate	20	C
Pentylacetate	20	C
Pentylalcohol	60	A
Pentylchloride	20	C
Perbonate (K-)	60	A
Perchlorate	40	A
Perchloric acid 70%	20	A

A = very good resistance
B = average resistance
C = not resistant

Medium	Temp. °C	Resistance
Permanganate (K-) 6 to 15%	40	A
Permanganate (K-) 6 to 15%	60	B
Permanganate (K-) to 6%	60	A
Peroxymonosulphuric acid (Caro's acid)	20	A
Persulphate (Ammonium-, K-, Na- and others)	40	A
Petroleum	60	A
Phenol 1%	20	A
Phenol 90%	45	B
Phenylhydrazine	20	C
Phenylhydrazine chloride	20	B
Phenylhydrazine chloride	60	C
Phosgene, gaseous	20	A
Phosgene, gaseous	60	B
Phosgene, liquid	20	C
Phosphates (ammonium-, K-, Na- and others)	60	A
Phosphoric acid	40	A
Phosphoric acid	60	B
Phosphorus pentoxide	20	A
Propane	20	A
Propanol	60	A
Pyridine	20	A
Rhodanides (ammonium-, K-, Na- and others)	60	A
Salicylic acid	20	A
Silicates (K-)	20	A
Soap solution	40	A
Stearic acid	60	A
Sulphates (ammonium-, K-, Na- and others)	60	A
Sulphites (ammonium-, K-, Na- and others)	60	A
Sulphur dioxide, gaseous, dry and moist 100%	60	A
Sulphuric acid to 40%	20	C
Sulphuric acid to 50%	50	A
Sulphuric acid to 50%	60	A
Sulphuric acid to 80%	40	C
Sulphuric acid to 80%	60	B
Sulphuric acid to 96%	20	A
Sulphuric acid to 96%	60	B
Sulphuric acid, fuming (10% oleum)	20	C
Sulphurous acid	60	A
Tallow	60	A
Tan bark	20	A
Tar, free from aromatic hydrocarbons	20	A
Tartaric acid	60	A
Tetraethyl lead	60	A
Tetrafluoroboric acid	20	A
Tetrahydrofurane	20	C
Thickness	60	A
Toluene	20	A
Transformer oil	60	A
Trichloroethylene	20	C
Turpentine	20	A
Urea	60	C
Vegetable oils	40	A
Vinyl acetate	20	C
Viscose spinning solutions	60	A
Water	40	A
Water	60	B
Wine	40	A
Wine vinegar	50	A
Wood tar	20	C
Xylenes	20	C

Material properties of the hard PVC used
Material description according to DIN 7748 PVC-U-E-D-080-04-28
Tensile strength according to DIN 53 455 min. 40 N/mm²
Elongation at tear according to DIN 53 455 min. 65%
Puncture strength according to DIN 53 481 min. 20 KV/mm
Surface resistance according to DIN 53 482 min. 10 10
Thermoforming resistance according to DIN 53 460/B min. 75 °C
Temperature resistance in the application max. 65 °C
Flammability according to UL 94 Level V-0
Material classification to DIN EN 4102, Class B1 and B2-tested

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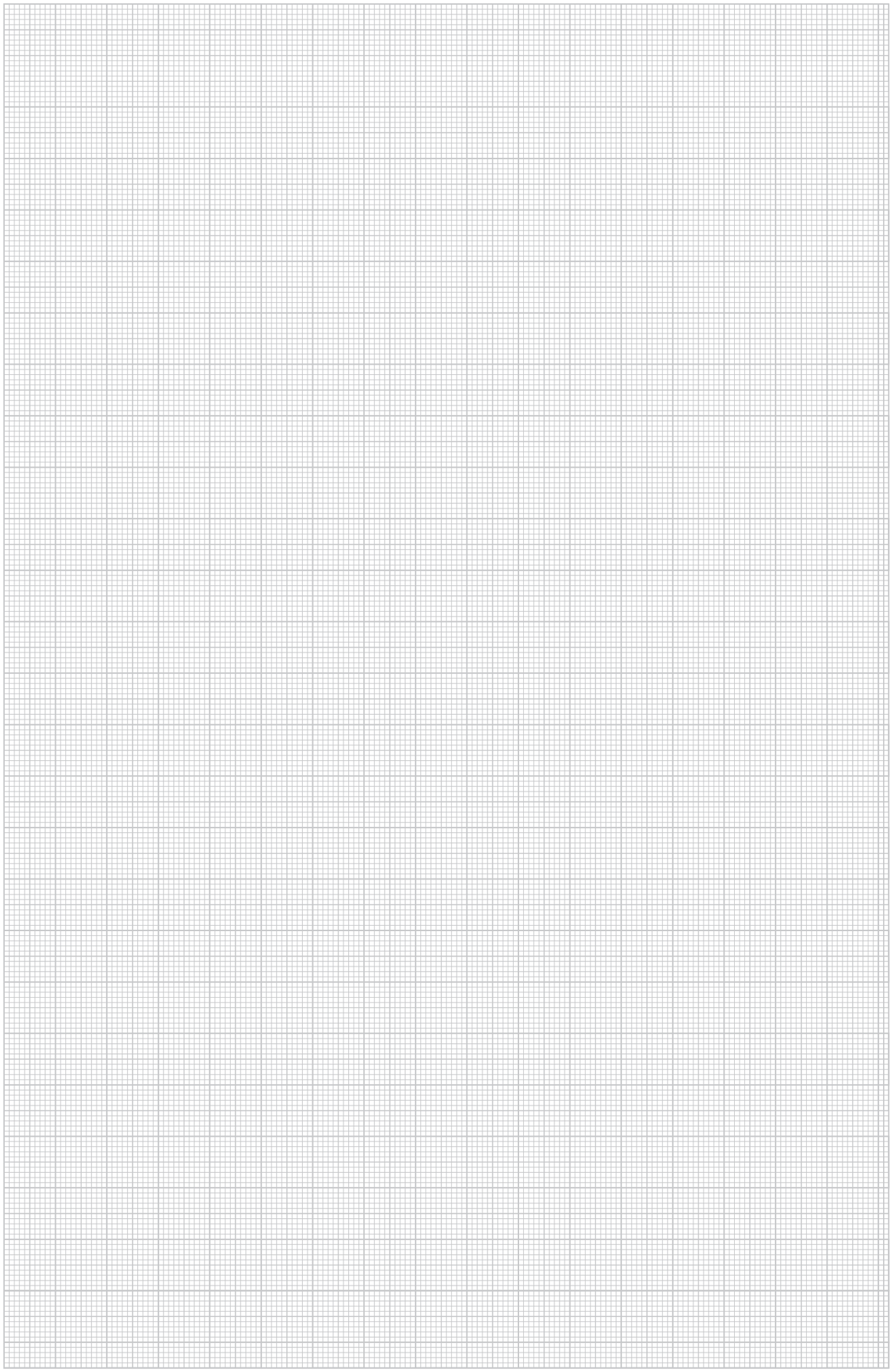

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Junction box systems

	Thermoplast	A series Terminal strip	162 163
		T series, plug-in seal	164
		T series, closed	166
		Plug-in seal, T series Mounting plate, T series Terminal strip, T series Hat profile rail	168 168 169 170
		T series, strain relief T 100 WB, Wieland socket T 100 NL S, Modul 45 sockets in cover	172 172 178
	FireBox	FireBox Locknut Cable gland	181 182 182
		B 9/T Mounting plate Terminal strip	183 183 183
	Duroplast	B series, without thread Plug-in seal Terminal strip	184 185 185
		B series, with thread Terminal strip Cable connection sleeve	186 187 187
	Aquasit cold casting compound	Cartridge Mixer pipe Cartridge pistol	188 188 188

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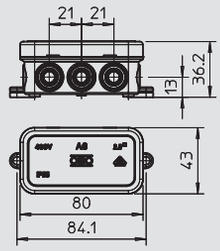
Thermoplastic cable junction box, A series

Junction box A 6

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
A 6	Without terminal strip	Light grey	10		10	2.500	**2000 00 1**
A 6 HF RW	–	Pure white	10		10	2.500	**2000 00 5**
A 6 HF RO	–	Red	10		10	2.500	**2000 00 3**

PE Polyethylene /100 pc.

Protection rating IP55, nominal voltage 400 V, nominal cross-section 2,5 mm², 6 entries for cable diameter 7-14 mm and 4 entries for cable diameter 7-9 mm.
Clamshell.
Dimensions: 80 x 43 x 34 mm
Clear internal dimensions: 70 x 32 x 31 mm
2 penetration mandrels for every 10 boxes

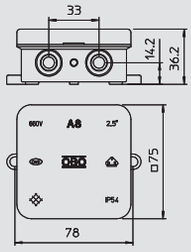


Junction box A 8

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
A 8 5	1 terminal strip	Light grey	150		10	6.500	**2000 02 4**
A 8	Without terminal strip	Light grey	150		10	5.140	**2000 01 6**
A8 HF RO	Without terminal strip	Red	150		10	5.140	**2000 05 9**
A8 HF RW	Without terminal strip	Pure white	150		10	5.140	**2000 07 5**

PE Polyethylene /100 pc.

Protection rating IP54, nominal voltage 660 V, nominal cross-section 2,5 mm², 7 entries for cable diameter 8–14 mm.
Clamshell.
Dimensions: 75 x 75 x 36.2 mm
Clear internal dimensions: 65 x 65 x 32 mm
2 penetration mandrels for every 10 boxes

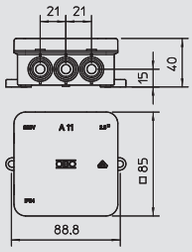


Junction box A 11

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
A 11 5	1 terminal strip	Light grey	80		10	7.640	**2000 32 6**
A 11	Without terminal strip	Light grey	80		10	6.200	**2000 34 2**
A11 HF RO	Without terminal strip	Red	80		10	6.200	**2000 16 4**
A11 HF RW	Without terminal strip	Pure white	80		10	6.200	**2000 18 0**

PE Polyethylene /100 pc.

Protection rating IP54, nominal voltage 660 V, nominal cross section 2,5 mm², 12 entries for cable diameter 8–14 mm.
Clamshell.
Dimension: 85 x 85 x 40 mm.
Clear internal dimensions: 75 x 75 x 35 mm.
Two penetration pins for every 10 sockets.

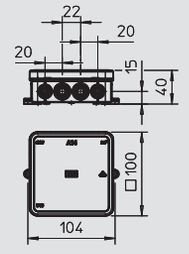


Junction box A 14

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
A 14 5	1 terminal strip	Light grey	10		10	5.860	**2000 38 2**
A 14	Without terminal strip	Light grey	10		10	5.860	**2000 37 8**
A 14 HF RO	Without terminal strip	Red	10		10	5.860	**2000 38 6**
A 14 HF RW	Without terminal strip	Pure white	10		10	5.860	**2000 39 0**

PE Polyethylene /100 pc.

Protection rating IP55, nominal voltage 400 V, nominal cross-section 2,5 mm², 14 pre-assembled entry nipples for cable diameters 7-13 mm.
Clamshell.
Dimensions: 100 x 100 x 40 mm
Clear internal dimensions: 90 x 90 x 35 mm
2 penetration mandrels for every 10 boxes



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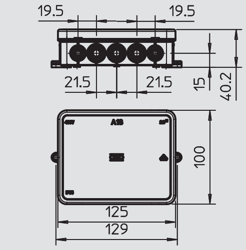
Always indicate the item number when ordering.

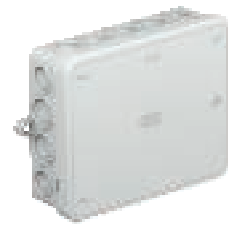


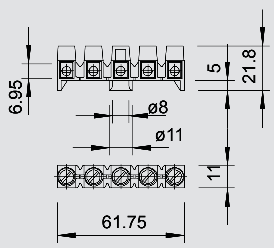
Junction box A 18

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
A 18 5	1 terminal strip	Light grey	10		10	6.960	**2000 41 4**
A 18	Without terminal strip	Light grey	10		10	6.960	**2000 41 0**
A 18 HF RO	Without terminal strip	Red	10		10	6.960	**2000 41 8**
A 18 HF RW	Without terminal strip	Pure white	10		10	6.960	**2000 42 2**

PE Polyethylene /100 pc.

Protection rating IP55, nominal voltage 400 V, nominal cross-section 2,5 mm², 18 pre-assembled entry nipples for cable diameters 7-13 mm.
Clamshell.
Dimensions: 125 x 100 x 40 mm
Clear internal dimensions: 115 x 90 x 35 mm
2 penetration mandrels for every 10 boxes





Terminal strip, junction box, A series

Type	Colour	No. of screwless terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
689	Light grey	5	0.8-2.5	660	500		50	1.420	**2017 34 2**

PA Polyamide /100 pc.

Terminal strip, nickel-plated brass, steel screws, galvanised and transparently passivated, nominal cross-section 0,8 - 2,5 mm², nominal voltage 660 V, 5-pole, with terminal sockets, max. connectable cross-sections per terminal: 4 x 2.5 mm², 5 x 1.5 mm² or
6 x 1 mm², unnecessary poles can be cut off and used as individual terminals.

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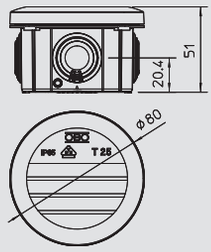
Thermoplastic junction box, T series

Junction box T 25, plug-in seal

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 25	Standard	4 x M25	Light grey	125		5	4.190	**2007 02 9**
T 25 RW	–	4 x M25	Pure white	125		5	4.190	**2007 50 9**
T 25 F	960 °C flame-resistant	4 x M25	Light grey	125		5	4.190	**2007 31 2**
T 25 RO-LGR	With red lid.	4 x M25	Red grey	125		5	4.190	**2007 62 2**
T 25 HEB	–	4 x M25	Light ivory	125		5	4.190	**2007 58 1**
T 25 KL	With terminal strip	4 x M25	Light grey	125		5	6.400	**2007 43 0**

PP Polypropylene /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This plastic is soft, which means that it is malleable. This allows installation of cables either directly through the 4 x M25 seals, or the seals can be cut with a knife at the pre-marked points, in order to create an insertion opening for cables or pipes. In addition, cable glands can be inserted through the openings instead of the seals and locked with a locknut from inside.
The cable junction boxes can be screwed onto an M6 thread or mounted on mounting plates in the openings on the floor using steel bolts 3.5 x 9.5.
Clear internal dimensions: Ø63 x 45 mm.
Cover with labelling panel.

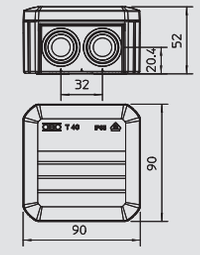


Junction box T 40, plug-in seal

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 40	Standard	7 x M25	Light grey	80		5	6.700	**2007 04 5**
T 40 RW	–	7 x M25	Pure white	80		5	6.700	**2007 51 7**
T 40 F	960 °C flame-resistant	7 x M25	Light grey	80		5	6.700	**2007 32 0**
T 40 RO-LGR	With red lid	7 x M25	Red grey	80		5	6.700	**2007 63 0**
T 40 HEB	–	7 x M25	Light ivory	80		5	6.700	**2007 58 4**
T 40 KL	With terminal strip	7 x M25	Light grey	80		5	8.900	**2007 43 2**

PP Polypropylene /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This allows installation of cables either directly through the 7 x M25 seals, or the seals can be cut with a knife at the pre-marked points, in order to create an insertion opening for cables or pipes. Alternatively, cable glands can be pushed through the openings instead of the seals and locked with a locknut from the inside.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 77 x 77 x 46 mm
Cover with labelling panel and lead-sealed.

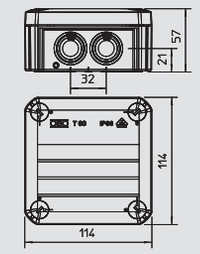


Junction box T 60, plug-in seal

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 60	Standard	7 x M25	Light grey	60		5	12.300	**2007 06 1**
T 60 RW	–	7 x M25	Pure white	60		5	12.300	**2007 52 5**
T 60 F	960 °C flame-resistant	7 x M25	Light grey	60		5	12.300	**2007 33 9**
T 60 RO-LGR	With red cover	7 x M25	Red grey	60		5	12.300	**2007 63 8**
T 60 HEB	–	7 x M25	Light ivory	60		5	12.300	**2007 58 7**
T 60 KL	With terminal strip	7 x M25	Light grey	60		5	16.700	**2007 43 4**

PP Polypropylene /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This allows installation of cables either directly through the 7 x M25 seals, or the seals can be cut with a knife at the pre-marked points, in order to create an insertion opening for cables or pipes. Alternatively, cable glands can be pushed through the openings instead of the seals and locked with a locknut from the inside.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 100 x 100 x 48 mm
Cover with labelling panel and lead-sealed.



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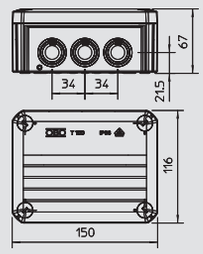
Always indicate the item number when ordering.

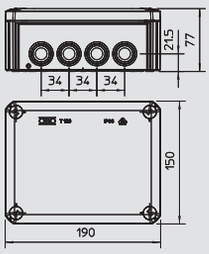


Junction box T 100, plug-in seal

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100	Standard	10 x M25	Light grey	40		1	16.270	**2007 07 7**
T 100 RW	–	10 x M25	Pure white	40		1	16.270	**2007 53 3**
T 100 M25-M32	Large entry	8 x M25 2 x M32	Light grey	40		1	16.300	**2007 08 1**
T 100 F	960 °C flame-resistant	10 x M25	Light grey	40		1	16.270	**2007 34 7**
T 100 RO-LGR	With red lid	10 x M25	Red grey	40		1	16.270	**2007 64 4**
T 100 HEB	–	10 x M25	Light ivory	40		1	16.270	**2007 59 0**
T 100 KL	With terminal strip	10 x M25	Light grey	40		1	40.000	**2007 43 6**

PP Polypropylene /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This allows installation of cables either directly through the 10 x M25 seals, or the seals can be cut with a knife at the pre-marked points, in order to create an insertion opening for cables or pipes. Alternatively, cable glands can be pushed through the openings instead of the seals and locked with a locknut from the inside.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 136 x 102 x 57 mm
Cover with labelling panel and lead-sealed.

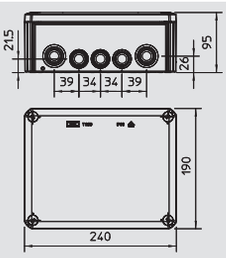


Junction box T 160, plug-in seal

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 160	Standard	7 x M25 5 x M32	Light grey	20		1	30.000	**2007 09 3**
T 160 RW	–	7 x M25 5 x M32	Pure white	20		1	30.000	**2007 54 1**
T 160 M32	Large entry	10 x M32	Light grey	20		1	30.000	**2007 09 7**
T 160 F	960 °C flame-resistant	7 x M25 5 x M32	Light grey	20		1	30.000	**2007 35 5**
T 160 RO-LGR	With red lid	7 x M25 5 x M32	Red grey	20		1	30.000	**2007 64 9**
T 160 HEB	–	7 x M25 5 x M32	Light ivory	20		1	30.000	**2007 59 3**
T 160 KL	With terminal strip	7 x M25 5 x M32	Light grey	20		1	64.200	**2007 44 0**

PP/GF Polypropylene, fibre-glass reinforced /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This allows installation of cables either directly through the 7x M25 + 5x M32 seals, or the seals can be cut with a knife at the pre-marked points, in order to create an insertion opening for cables or pipes. Alternatively, cable glands can be pushed through the openings instead of the seals and locked with a locknut from the inside.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 176 x 135 x 67 mm
Cover with labelling panel and lead-sealed.



Junction box T 250, plug-in seal

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 250	Standard	9 x M25 7 x M32	Light grey	8		1	50.000	**2007 10 9**
T 250 RW	–	9 x M25 7 x M32	Pure white	8		1	50.000	**2007 55 4**
T 250 F	960 °C flame-resistant	9 x M25 7 x M32	Light grey	8		1	50.000	**2007 36 3**
T 250 RO-LGR	With red lid	9 x M25 7 x M32	Red grey	8		1	50.000	**2007 65 7**
T 250 HEB	–	9 x M25 7 x M32	Light ivory	8		1	50.000	**2007 59 6**
T 250 KL	With terminal strip	9 x M25 7 x M32	Light grey	8		1	79.500	**2007 44 4**

PP/GF Polypropylene, fibre-glass reinforced /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This allows installation of cables either directly through the 9x M25 + 7x M32 seals, or the seals can be cut with a knife at the pre-marked points, in order to create an insertion opening for cables or pipes. Alternatively, cable glands can be pushed through the openings instead of the seals and locked with a locknut from the inside.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 225 x 173 x 86 mm
Cover with labelling panel and lead-sealed.

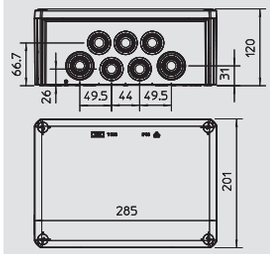
Thermoplastic junction box, T series

Junction box T 350, plug-in seal

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 350	Standard	16 x M32 8 x M40	Light grey	5		1	63.000	**2007 12 5**
T 350 RW	–	16 x M32 8 x M40	Pure white	5		1	63.000	**2007 56 8**
T 350 F	960 °C flame-resistant	16 x M32 8 x M40	Light grey	5		1	63.000	**2007 37 1**
T 350 RO-LGR	With red lid	16 x M32 8 x M40	Red grey	5		1	63.000	**2007 66 5**
T 350 HEB	–	16 x M32 8 x M40	Light ivory	5		1	63.000	**2007 59 9**
T 350 KL	With terminal strip	16 x M32 8 x M40	Light grey	5		1	120.000	**2007 44 8**

PP/GF Polypropylene, fibre-glass reinforced /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This allows installation of cables either directly through the 16x M32 + 8x M40 seals, or the seals can be cut with a knife at the pre-marked points, in order to create an insertion opening for cables or pipes. Alternatively, cable glands can be pushed through the openings instead of the seals and locked with a locknut from the inside.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 267 x 182 x 110 mm
Cover with labelling panel and lead-sealed.

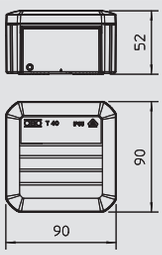


Junction box T 40, closed

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 40 OE	Closed	None	Light grey	80		5	6.300	**2007 22 3**

PP Polypropylene /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with closed side walls. This means that the required openings can be made wherever they are required. EDK plug-in seals or cable glands with locknuts can be inserted in these openings, to allow cable insertion.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 77 x 77 x 46 mm
Cover with labelling panel and lead-sealed.

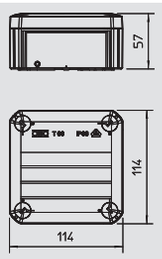


Junction box T 60, closed

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 60 OE	Closed	None	Light grey	60		5	12.000	**2007 23 9**

PP Polypropylene /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with closed side walls. This means that the required openings can be made wherever they are required. EDK plug-in seals or cable glands with locknuts can be inserted in these openings, to allow cable insertion.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 100 x 100 x 46 mm
Cover with labelling panel and lead-sealed.

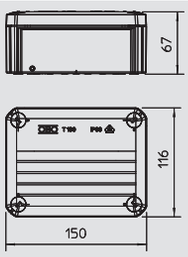


Junction box T 100, closed

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 OE	Closed	None	Light grey	40		1	16.200	**2007 25 5**

PP Polypropylene /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with closed side walls. This means that the required openings can be made wherever they are required. EDK plug-in seals or cable glands with locknuts can be inserted in these openings, to allow cable insertion.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 136 x 102 x 57 mm
Cover with labelling panel and lead-sealed.



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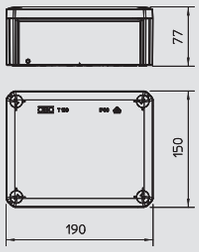
Always indicate the item number when ordering.

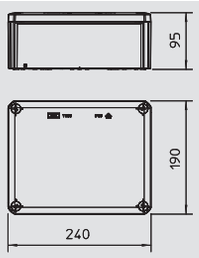


Junction box T 160, closed

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 160 OE	Closed	None	Light grey	20		1	30.000	**2007 27 1**

PP/GF Polypropylene, fibre-glass reinforced /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with closed side walls. This means that the required openings can be made wherever they are required. EDK plug-in seals or cable glands with locknuts can be inserted in these openings, to allow cable insertion. The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 176 x 135 x 67 mm
Cover with labelling panel and lead-sealed.

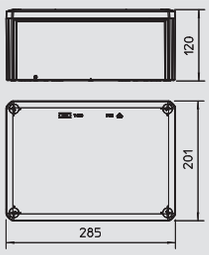


Junction box T 250, closed

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 250 OE	Closed	None	Light grey	8		1	48.300	**2007 28 7**

PP/GF Polypropylene, fibre-glass reinforced /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with closed side walls. This means that the required openings can be made wherever they are required. EDK plug-in seals or cable glands with locknuts can be inserted in these openings, to allow cable insertion. The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 225 x 173 x 86 mm
Cover with labelling panel and lead-sealed.

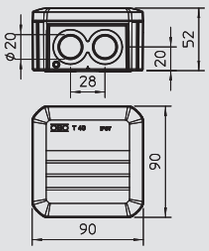


Junction box T 350, closed

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 350 OE	Closed	None	Light grey	5		1	58.800	**2007 30 3**

PP/GF Polypropylene, fibre-glass reinforced /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with closed side walls. This means that the required openings can be made wherever they are required. EDK plug-in seals or cable glands with locknuts can be inserted in these openings, to allow cable insertion. The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 267 x 182 x 110 mm
Cover with labelling panel and lead-sealed.



Junction box with premarking

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 40 M20	Closed	7 x Ø20	Light grey	80		5	6.100	**2007 90 0**
T 40 M20 KL	With terminal strip	7 x Ø20	Light grey	80		5	8.200	**2007 90 4**

PP Polypropylene /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This allows installation of cables either directly through the 7 x Ø20 seals, or the seals can be cut with a knife at the pre-marked points, in order to create an insertion opening for cables or pipes. Alternatively, cable glands can be pushed through the openings instead of the seals and locked with a locknut from the inside.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 77 x 77 x 46 mm
Cover with labelling panel and lead-sealed.

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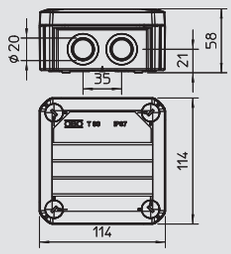
Thermoplastic junction box, T series

Junction box with premarking

Type	Version	Entries	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
T 60 M20	Closed	7 x Ø20	Light grey	60	5	12.100	**2007 91 0**
T 60 M20 KL	With terminal strip	7 x Ø20	Light grey	60	5	16.500	**2007 91 4**

PP Polypropylene /100 pc.

The junction boxes are made of a thermoplastic polypropylene polymer with plug-in seals made of ethylene vinyl acetate (EVA). This allows installation of cables either directly through the 7 x Ø20 seals, or the seals can be cut with a knife at the pre-marked points, in order to create an insertion opening for cables or pipes. Alternatively, cable glands can be pushed through the openings instead of the seals and locked with a locknut from the inside.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 100 x 100 x 48 mm
Cover with labelling panel and lead-sealed.



Plug-in seal for cables, T-series junction box

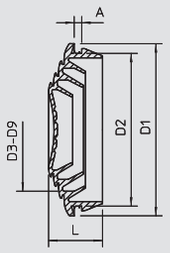
Type	Size	For Ø mm	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
EDK 25 LGR	M25	0-22	Light grey	1000	100	0.180	**2011 63 8**
EDK 32 LGR	M32	0-27	Light grey	300	50	0.260	**2011 64 6**
EDK 40 LGR	M40	0-34	Light grey	300	25	0.430	**2011 65 4**
EDK 25 RW	M25	0-22	Pure white	1000	100	0.180	**2011 68 9**
EDK 32 RW	M32	0-27	Pure white	300	50	0.260	**2011 69 7**
EDK 40 RW	M40	0-34	Pure white	300	25	0.430	**2011 70 0**

EVA Ethylene vinyl acetate /100 pc.

The plug-in seal can be cut back to suit the relevant cable diameter.

Important dimensions, plug-in seal

G	L mm	A mm	D1 mm	D2 mm	D3 mm	D4 mm	D5 mm	D6 mm	D7 mm	D8 mm	D9 mm
M25	10.1	2.2	29.5	25.4	0–5	4–10	9–15	14.5–18	18.5–22		
M32	11.4	2.2	36.4	32.3	0–5	4–10	9–15	14.5–18	18.5–22	24–27	
M40	13.4	2.2	44.1	40.2	0–5	4–10	9–15	14.5–18	18.5–22	24–27	31–34



Plug-in seal for pipes, T-series junction box

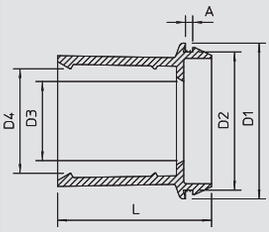
Type	Size	For Ø mm	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
EDR 25 16-20 LGR	M25	16 & 20	Light grey	50	50	0.520	**2011 50 6**
EDR 25 20-25 LGR	M25	20 & 25	Light grey	50	50	0.680	**2011 51 4**
EDR 32 20-25 LGR	M32	20 & 25	Light grey	50	50	1.020	**2011 52 2**
EDR 32 25-32 LGR	M32	25 & 32	Light grey	50	50	1.170	**2011 53 0**
EDR 40 25-32 LGR	M40	25 & 32	Light grey	25	25	1.950	**2011 53 8**
EDR 40 32-40 LGR	M40	32 & 40	Light grey	25	25	2.200	**2011 54 6**

PVC Polyvinylchloride /100 pc.

Plug-in seals are used to run pipes tight to the junction box.

Important dimensions, plug-in seal

G	L mm	A mm	D1 mm	D2 mm	D3 mm	D4 mm
M25	30	2.2	29.5	25.3	15.0	18.4
M25	30	2.2	29.5	25.3	18.5	24.2
M32	36	2.2	36.4	32.3	18.5	24.2
M32	36	2.2	37	32.3	24	31.2
M40	49	2.2	44.4	40.3	24	31.2
M40	49	2.2	46	42.3	31	39.2

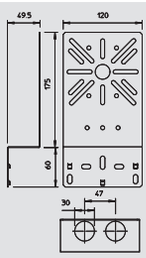


Mounting plate, angled

Type	Height mm	Width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MP WI KL. FS	210	120	20	20.200	**7084 76 5**
MP WI KL. DD	210	120	20	20.200	**7085 11 1**

St Steel FS Strip-galvanised DD Zinc-aluminium coated, double-dip /pc.

Curved mounting plate, for fastening on the side rail of the cable tray.



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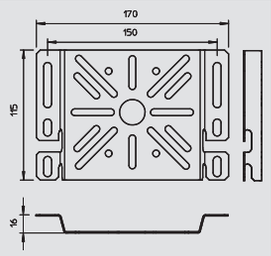
Always indicate the item number when ordering.

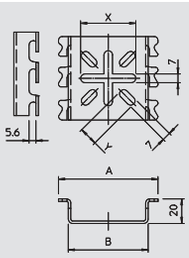


Mounting plate for cable tray

Type	Height mm	Width mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MP UNI FS	115	170		40	13.300	**7084 77 3**

St Steel FS Strip-galvanised /pc.

Mounting plate, for fastening on the side rail of cable support systems.

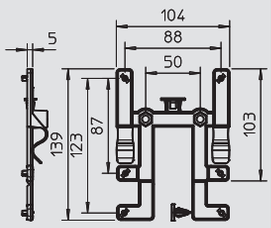


Mounting plate for mesh cable tray

Type	Dimension A mm	Dimension B mm	Dimension x mm	Dimension y mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MPG 65 FT	81	65	–	–		30	9.200	**6006 48 6**

St Steel FT Hot-dip galvanised /pc.

Mounting for screwless fastening on mesh cable trays.

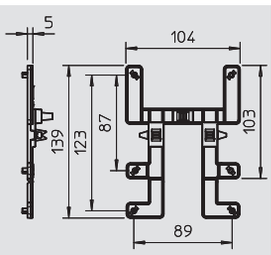


Fastening element for cable tray

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
BE TS KR	10		10	2.800	**2007 83 5**

PC Polycarbonate /100 pc.

The fastening element BE TS KR can be used to attach OBO junction boxes, type T60 and T100, to all standard cable trays in a few actions, quickly and without tools.
This keeps the junction box securely in position. However, it can be quickly dismantled as necessary. This is all done without using tools.

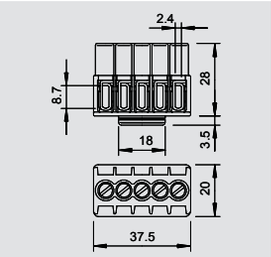


Fastening element for mesh cable tray

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
BE TS GR	10		10	2.300	**2007 83 3**

PC Polycarbonate /100 pc.

The fastening element BE TS GR can be used to attach OBO junction boxes, type T60 and T100, to all standard mesh cable trays in a few actions, quickly and without tools. This is all done without using tools.
This keeps the junction box securely in position. However, it can be quickly dismantled as necessary.



Terminal strip, junction box, T series

Type	Colour	No. of screwless terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL-T 01-04	Light grey	5	1-4	400	100		10	2.100	**2016 18 0**

PA Polyamide /100 pc.

Steel terminal block and bolts, galvanised and transparently passivated, nominal 1 - 4 mm², nominal voltage 400 V, 5-pole, with terminal sockets, Max. connectable cross-sections per terminal max. 4 x 2.5 mm², 5 x 1.5 mm² or 6 x 1 mm² .

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Thermoplastic junction box, T series

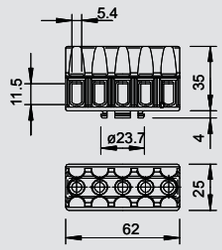
Terminal strip, junction box, T series

4-6 mm² · 5 · VDE

Type	Colour	No. of screw-less terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL-T 02-06	Light grey	5	1.5-6	400	120		10	4.380	**2016 18 5**

PA Polyamide /100 pc.

Steel terminal block and bolts, galvanised and transparently passivated, nominal 1,5 - 6 mm², nominal voltage 400 V, 5-pole, with terminal sockets, Max. connectable cross-sections per terminal: 3 x 6 mm², 4 x 4 mm² or 6 x 2.5 mm² .



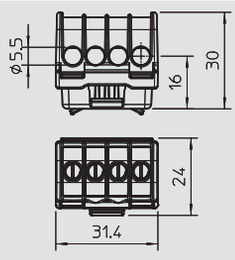
Terminal strip, junction box, T series

16 mm² · VDE

Type	Colour	No. of screw-less terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL-T 06-16	Light grey	4	6-16	400	120		10	–	**2016 19 0**

PA Polyamide /100 pc.

Brass terminals, 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 max. 4 x 16 mm², 4 x 10 mm², 8x6 mm² or 12 x 4 mm².



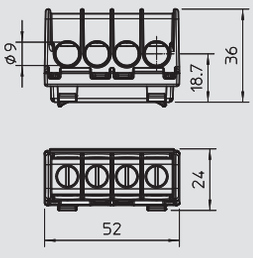
Terminal strip, junction box, T series

35 mm² · VDE

Type	Colour	No. of screw-less terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL-T 16-35	Light grey	4	16-35	400	120		10	–	**2016 19 5**

PA Polyamide /100 pc.

Brass terminals, steel screws, electrogalvanised and transparently passivated, nominal cross-section 16 - 35 mm², nominal voltage 400 V, 1-pole, with terminal sockets, Max. connectable conductors per terminal max. 4 x 35 mm², 4 x 25 mm², 8x16 mm² or 12 x 10 mm².

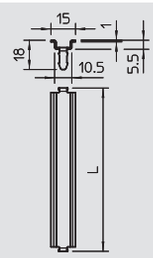


Hat profile rail, junction box T series

Type	Version	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
46277 T160 Q GTP	For T 160 lengthwise + T 100 crosswise	99		10	–	**1115 27 0**
46277 T250 Q GTP	For T 250 lengthwise + T 160 crosswise	139		10	–	**1115 27 4**
46277 T250 L GTP	For T 250 lengthwise	189		10	–	**1115 27 8**
46277 T350 Q GTP	For T 350 crosswise	161		10	–	**1115 28 2**
46277 T350 L GTP	For T 350 lengthwise	168		10	–	**1115 28 6**

St Steel GTP Electrogalvanised, transparently passivated /100 pc.

Hat profile rail 15 x 5 mm to DIN EN 60715 (formerly DIN EN 50045).



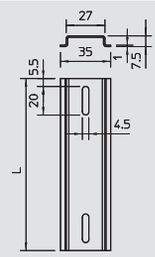
Hat profile rail, junction box T series

35

Type	Version	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2069 T60 GTP	For T 60 lengthwise + T 00 crosswise	89		10	3.070	**1115 38 0**
2069 T100 GTP	For T 100 lengthwise + T 160 crosswise	118		10	4.070	**1115 38 2**
2069 T160 GTP	For T 160 lengthwise + T 250, T350 crosswise	157		10	5.520	**1115 38 4**
2069 T250 GTP	For T 250 lengthwise	206		10	7.110	**1115 38 6**
2069 T350 GTP	For T 350 lengthwise	245		10	8.450	**1115 38 8**

St Steel GTP Electrogalvanised, transparently passivated /100 pc.

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).



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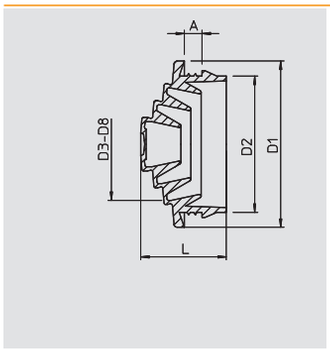
Always indicate the item number when ordering.



Plug-in seal EDVS

Type	Size	For Ø	Colour	Shipping box		Pack.	Weight	Item No.
		mm		pcs		pcs	kg/100 pcs.	
EDVS M20 LGR	M 20	0-17	Light grey	1200		100	0.130	**2012 37 5**

PE Polyethylene /100 pc.

The push-in nipple can be cut back to suit the relevant cable diameter.

Important dimensions, plug-in seal

G	L	A	D1	D2	D3	D4	D5	D6	D7	D8
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
M20	12.8	3.4	24.8	20.3	0 - 6	5 - 10	9 - 15	14 - 17		

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Always indicate the item number when ordering.

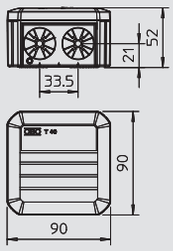
Thermoplastic junction box, T series with strain relief

Junction box T 40 ZE, strain relief entry

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 40 ZE IP30	-	7	Light grey	80		5	5.600	**2007 80 1**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with special strain relief entries. These entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 77 x 77 x 46 mm
Cover with labelling panel and lead-sealed.

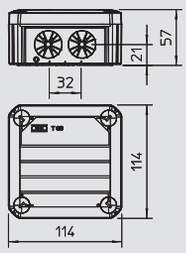


Junction box T 60 ZE, strain relief entry

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 60 ZE IP30	-	7	Light grey	60		5	11.200	**2007 80 3**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with special strain relief entries. These entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 100 x 100 x 48 mm
Cover with labelling panel and lead-sealed.

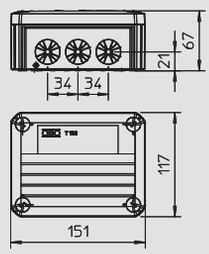


Junction box T 100 ZE, strain relief entry

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 ZE IP30	-	10	Light grey	40		1	14.600	**2007 80 5**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with special strain relief entries. These entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Clear internal dimensions: 136 x 102 x 57 mm
Cover with labelling panel and lead-sealed.

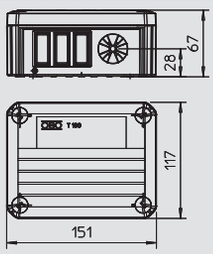


Junction box T 100 WB3, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB3	Without Wieland sockets	4	Light grey	40		1	14.600	**2007 80 7**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

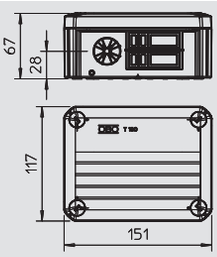


Junction box T 100 WB5, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB5	–	4	Light grey	40		1	14.600	**2007 84 0**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.



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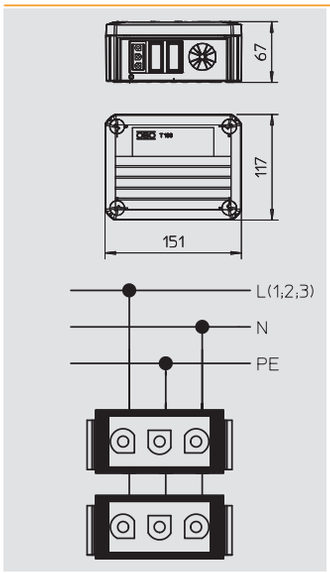
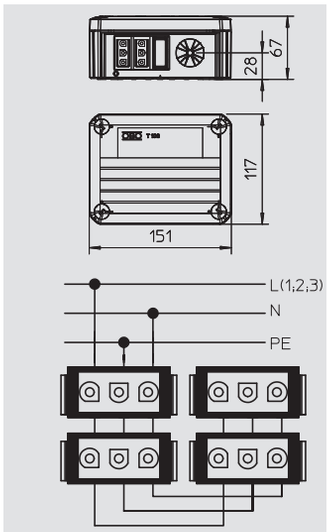


Junction box T 100 WB 2S3, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 2S3	Wieland socket 2 s	4	Light grey	40		1	20.500	**2007 80 9**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

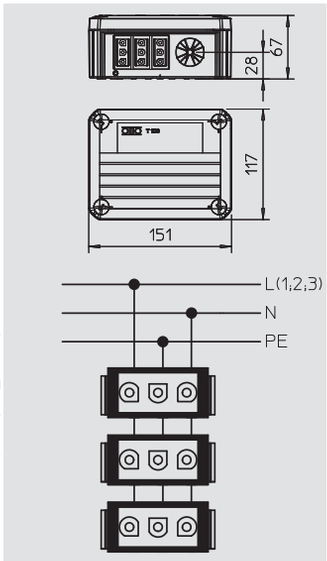


Junction box T 100 WB 4S3, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 4S3	Wieland socket 4 s	4	Light grey	40		1	25.400	**2007 81 1**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.



Junction box T 100 WB 3S3, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 3S3	Wieland socket 3 s	4	Light grey	40		1	22.300	**2007 81 3**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

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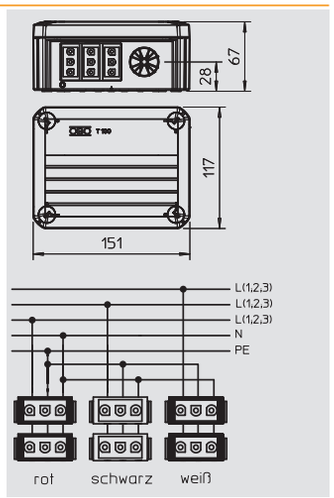
Thermoplastic junction box, T series with strain relief

Junction box T 100 WB6S 3x2, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 6S 3x2	W socket 3x2 ((white; black; red)	4	Light grey	40		1	29.500	**2007 81 4**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

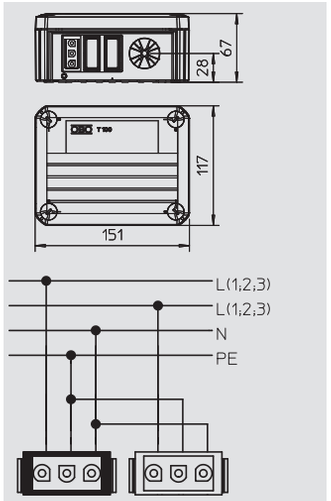


Junction box T 100 WB 1W3 1S3, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 1W3 1S3	W socket 1w+1s	4	Light grey	40		1	21.600	**2007 81 5**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

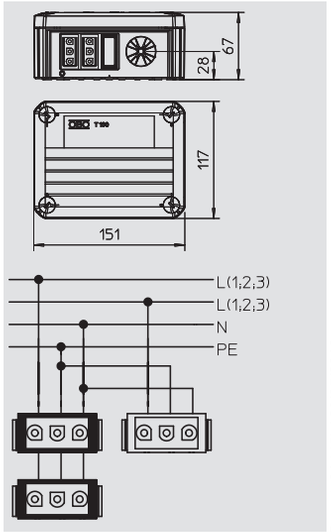


Junction box T 100 WB 1W3 2S3, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 1W3 2S3	W socket 1w+2s	4	Light grey	40		1	23.600	**2007 81 7**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.



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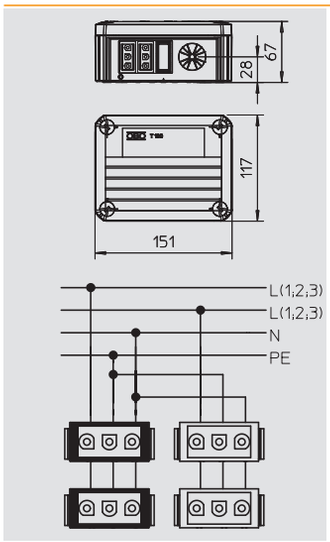
Always indicate the item number when ordering.



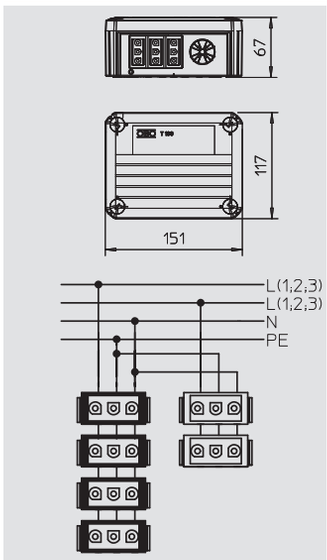
Junction box T 100 WB 2W3 2S3, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 2W3 2S3	W socket 2w+2s	4	Light grey	40		1	25.500	**2007 81 9**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

500 V IP 20 Fluor Chlor Brom HALOGENFREE 650°



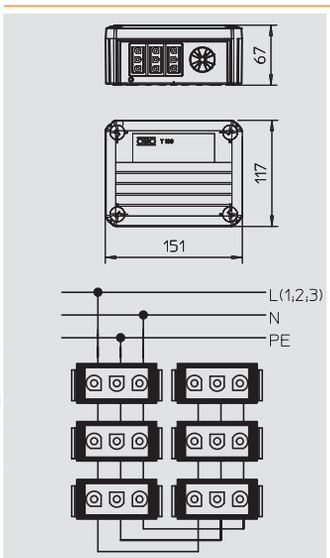
Junction box T 100 WB 2W3 4S3, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 2W3 4S3	W socket 2w+4s	4	Light grey	40		1	29.400	**2007 82 0**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

500 V IP 20 Fluor Chlor Brom HALOGENFREE 650°



Junction box T 100 WB 6S3, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 6S3	W socket 6s	4	Light grey	40		1	29.400	**2007 82 2**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

500 V IP 20 Fluor Chlor Brom HALOGENFREE 650°

Always indicate the item number when ordering.

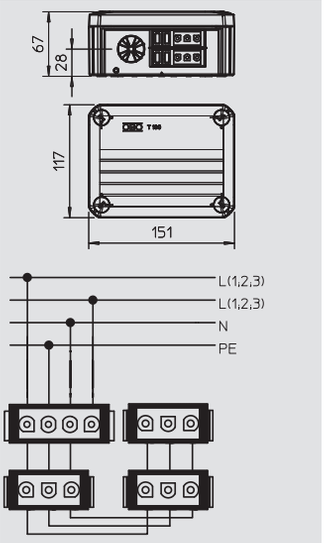
Thermoplastic junction box, T series with strain relief

Junction box T 100 WB 3S3 1S4, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 3S3 1S4	–	4	Light grey	40		1	25.500	**2007 84 4**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black- /w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

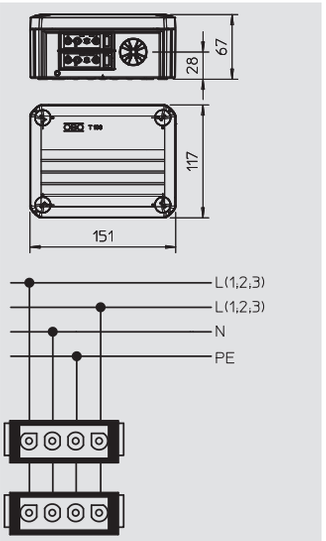


Junction box T 100 WB 2S4, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 2s4	–	4	Light grey	40		1	24.000	**2007 84 8**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black- /w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

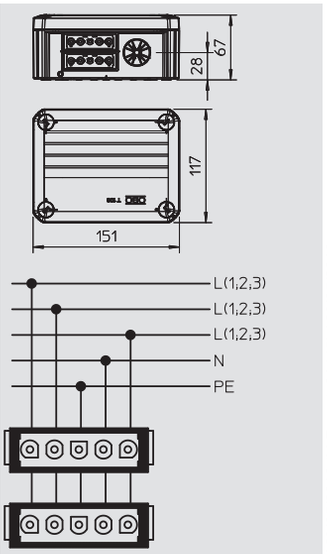


Junction box T 100 WB 2S5, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 2s5	–	4	Light grey	40		1	25.000	**2007 85 2**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black- /w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.



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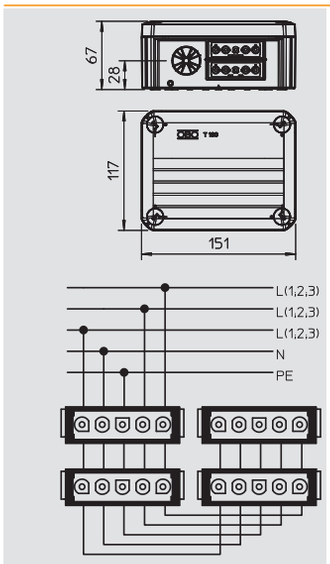
Always indicate the item number when ordering.

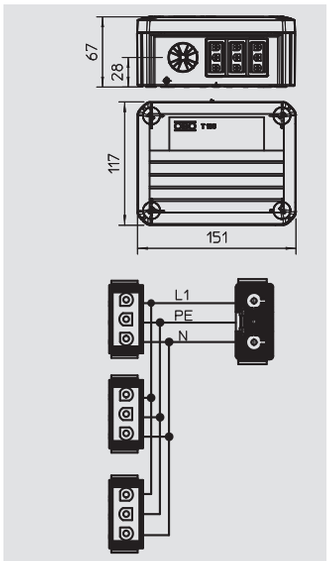


Junction box T 100 WB 4S5, Wieland socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 WB 4s5	–	4	Light grey	40		1	28.000	**2007 85 6**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

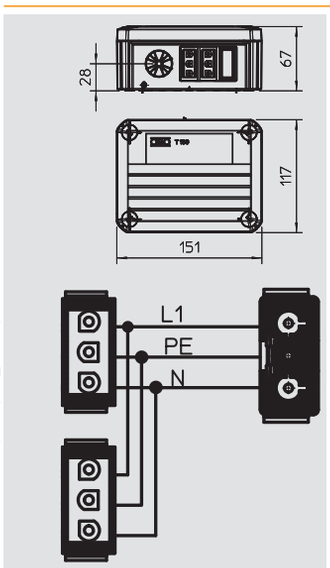


Junction box T 100 WS 1S3 3S3A, Wieland connector and socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T100 WS 1S3 3S3A	–	4	Light grey	40		1	22.600	**2007 87 0**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.



Junction box T 100 WS 1S3 2S3D, Wieland connector and socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T100 WS 1S3 2S3D	–	4	Light grey	40		1	20.700	**2007 87 6**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black-/w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

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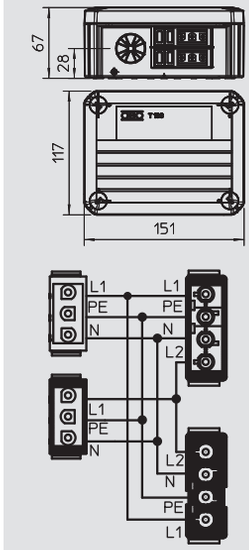
Thermoplastic junction box, T series with strain relief

Junction box T 100 WS 1S4 2S3C, Wieland connector and socket

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T100 WS 1S4 2S3C	–	4	Light grey	40		1	24.500	**2007 87 4**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries and pre-terminated Wieland connection sockets, type GST-18-13 (s = black- /w = white). The strain relief entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover with labelling panel and lead-sealed.

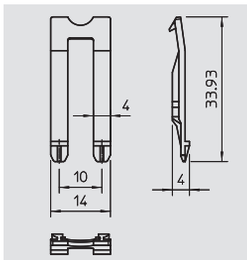


Locking, junction boxes T100 Wieland

Type		Pack. pcs	Weight kg/100 pcs.	Item No.
TV WB SW		100	0.050	**2007 86 0**
TV WB WS		100	0.050	**2007 86 5**

PA Polyamide /pc.

Zum nachträglichen Einbau in 3-, 4- oder 5 poligen Wielandsteckbuchsen. Somit können Wielandbuchsen nachträglich mit einer Zugentlastung ausgestattet werden.

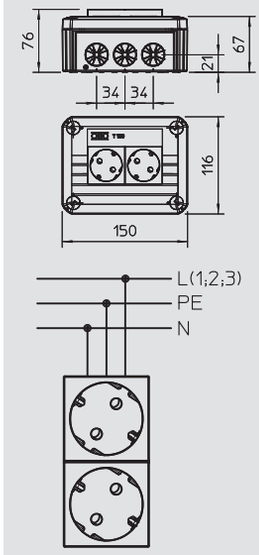


Junction box, T 100 MSD, 2 Modul 45 sockets in lid

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 2MSD WS	2 sockets, 33° white	10	Light grey	5		1	25.850	**2007 82 1**
T 100 2MSD RO	2 sockets, 33° red	10	Light grey	5		1	25.000	**2007 82 3**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries. These entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
Depending on the type, the cover contains two or four Modul 45 protective contact sockets in red or white.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover can be lead-sealed, with labelling panel for double sockets.



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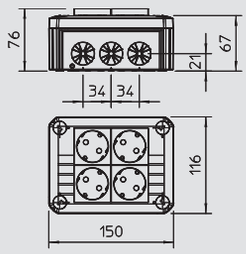
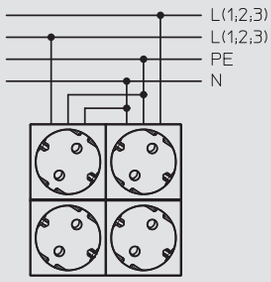




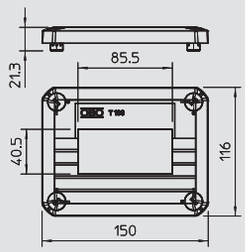
Junction box, T 100 MSD, 4 Modul 45 sockets in lid

500 V | IP 30 | Fluor Chlor Brom HALOGENFREE | 750°

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 4MSD WS	4 sockets, 33° white	10	Light grey	5		1	35.200	**2007 82 5**

PP Polypropylene /pc.

The junction boxes are made of a thermoplastic polypropylene polymer and are equipped with strain relief entries. These entries can be penetrated directly with the cables. The special structure of the opening means that the cables cannot be removed unintentionally. Suitable for cable diameters of between 7 and 21 mm.
Depending on the type, the cover contains two or four Modul 45 protective contact sockets in red or white.
The junction boxes can be mounted on mounting plates in the openings on the floor using steel screws 3.5 x 9.5.
Cover can be lead-sealed, with labelling panel for double sockets.



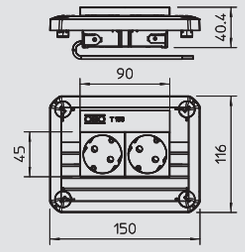
Junction box lid, T-100, unfitted for Modul 45 sockets

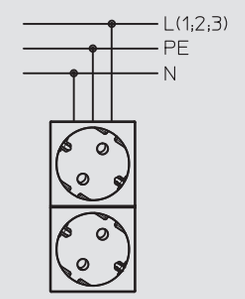
500 V | IP 30 | Fluor Chlor Brom HALOGENFREE | 750°

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 D MSD2A	For 2 Modul 45 accessories	–	Light grey	8		1	6.200	**2007 82 6**

PP Polypropylene /pc.

Cover for T 100 propylene junction boxes. Depending on the type, opening for Modul 45 devices or with two or four Modul 45 protective contact sockets in white.
Cover can be lead-sealed, with labelling panel for double sockets.





Junction box lid, T-100, with 2 Modul 45 sockets

500 V | IP 30 | Fluor Chlor Brom HALOGENFREE | 750°

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 D 2MSD RO	2 sockets, 33° white	–	Light grey	4		1	15.600	**2007 82 4**

PP Polypropylene /pc.

Cover for T 100 propylene junction boxes. Depending on the type, opening for Modul 45 devices or with two or four Modul 45 protective contact sockets in white.
Cover can be lead-sealed, with labelling panel for double sockets.

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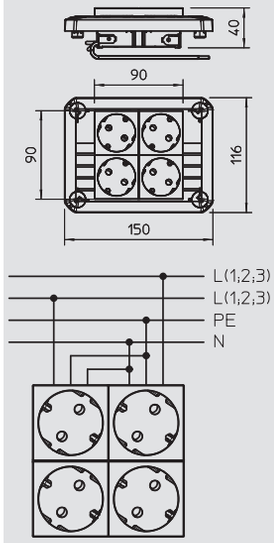
Thermoplastic junction box, T series with strain relief

Junction box lid, T-100, with 4 Modul 45 sockets

Type	Version	Entries	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 D 4MSD WS	4 sockets, 33° white	–	Light grey	4		1	24.900	**2007 82 9**

PP Polypropylene /pc.

Cover for T 100 propylene junction boxes. Depending on the type, opening for Modul 45 devices or with two or four Modul 45 protective contact sockets in white.
Cover can be lead-sealed, with labelling panel for double sockets.

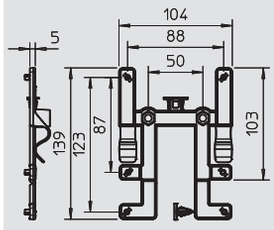


Fastening element for cable tray

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
BE TS KR	10		10	2.800	**2007 83 5**

PC Polycarbonate /100 pc.

The fastening element BE TS KR can be used to attach OBO junction boxes, type T60 and T100, to all standard cable trays in a few actions, quickly and without tools.
This keeps the junction box securely in position. However, it can be quickly dismantled as necessary. This is all done without using tools.

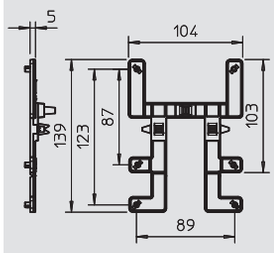


Fastening element for mesh cable tray

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
BE TS GR	10		10	2.300	**2007 83 3**

PC Polycarbonate /100 pc.

The fastening element BE TS GR can be used to attach OBO junction boxes, type T60 and T100, to all standard mesh cable trays in a few actions, quickly and without tools. This is all done without using tools.
This keeps the junction box securely in position. However, it can be quickly dismantled as necessary.



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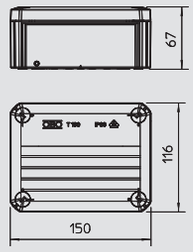


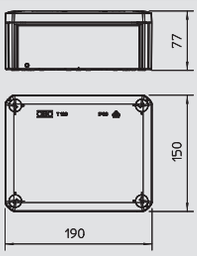
Junction box, FireBox T 100

IP 65 E30 E90

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 100 E 4-5	Pastel orange	17		1	27.400	**7205 51 0**

PP Polypropylene /pc.

Halogen-free junction box, approved for electrical function maintenance according to DIN 4102 Part 12. Function maintenance classes E30 to E90
Including premounted connection unit made of high temperature-resistant special ceramic and labelled protective conductor terminal. Supplied with fire protection screw ties for anchorless fastening.
Power cable nominal cross-sections: 1.5 to 4 mm², data cables with 0.8 mm wire Ø. Maximum of 2 1.5 mm² rigid copper cables per terminal (remove wire protection).
High protection rating IP65, impact resistance class IK07. VDE-tested.
Details on the cable types and manufacturers can be found in the general construction test certificate of the material testing institute MPA NRW, Erwitte.
Number of terminals including protective conductor terminal
Internal clearance: 136 x 102 x 57 mm



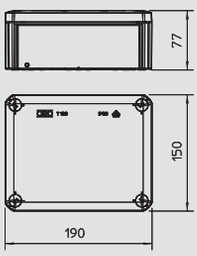
Junction box, FireBox T 160

IP 65 E30 E90

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 160 E 10-5	Pastel orange	5		1	48.700	**7205 52 4**
T 160 E 16-5	Pastel orange	5		1	53.800	**7205 52 8**

PP Polypropylene /pc.

Halogen-free junction box, approved for electrical function maintenance according to DIN 4102 Part 12. Function maintenance classes E30 to E90
Including premounted connection unit made of high temperature-resistant special ceramic and labelled protective conductor terminal. Supplied with fire protection screw ties for anchorless fastening.
Power cable nominal cross-sections: 10 mm², data cables with 0.8 mm wire Ø. Maximum of 2 4 mm² rigid copper cables per terminal (remove wire protection).
High protection rating IP65, impact resistance class IK07. VDE-tested.
Details on the cable types and manufacturers can be found in the general construction test certificate of the material testing institute MPA NRW, Erwitte.
Number of terminals including protective conductor terminal
Internal clearance: 176 x 135 x 67 mm



Junction box, FireBox T 160 D

IP 65 E30 E90

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T 160 E 4-8D	Pastel orange	5		1	46.500	**7205 52 0**

PP Polypropylene /pc.

Halogen-free junction box, approved for electrical function maintenance according to DIN 4102 Part 12. Function maintenance classes E30 to E90

Including premounted connection unit made of high temperature-resistant special ceramic with fire protection screw ties for anchorless fastening.
Nominal cross-section: data cables with 0.8 mm wire Ø.
High protection rating IP65, impact resistance class IK06. VDE-tested.

Details on the cable types and manufacturers can be found in the general construction test certificate of the material testing institute MPA NRW, Erwitte.

Number of terminals without protective conductor terminal
Internal clearance: 176 x 135 x 67 mm

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T series FireBox thermoplastic junction box

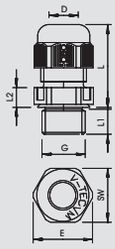
Cable gland for FireBox

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM20 OR	M20 x 1,5	Pastel orange	600		50	0.860	**7205 59 4**
V-TEC VM25 OR	M25 x 1,5	Pastel orange	300		25	1.360	**7205 59 7**
V-TEC VM32 OR	M32 x 1,5	Pastel orange	240		20	2.240	**7205 60 0**
V-TEC VM40 OR	M40 x 1,5	Pastel orange	120		10	3.500	**7205 60 3**

PA Polyamide /100 pc.

Robust cap nut cable gland with metric connecting thread to IEC 423. For high tightness requirements. Strain relief, wringing protection and tightness over the whole clamping area. Sealing ring made of polychloroprene/acrylnitrilbutadiene rubber. Moulded shaped sealing lip on intermediate support, no connection thread sealing ring required.
VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar for 1 hr.
For electrical function maintenance according to DIN 4102 Part 12 in connection with the junction boxes of the FireBox T series.

G	D mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm
M20 x 1.5	6 - 13	24	27	23.5	30.5	10	6
M25 x 1.5	9 - 17	29	32	26	35	10	6
M32 x 1.5	15 - 21	36	41	29	40	11	6
M40 x 1.5	16 - 28	44	50	36	46	11	7

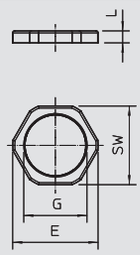


Locknut for FireBox

Type	Thread	Colour	SW mm	Dimension E mm	Dimension L mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
116 M20 OR PA	M20 x 1,5	Pastel orange	26	29	6	1200		100	0.250	**7205 64 4**
116 M25 OR PA	M25 x 1,5	Pastel orange	32	36	6.5	1000		100	0.350	**7205 64 7**
116 M32 OR PA	M32 x 1,5	Pastel orange	41	46	7	500		50	0.570	**7205 65 0**
116 M40 OR PA	M40 x 1,5	Pastel orange	50	56	7.5	250		25	0.470	**7205 65 3**

PA Polyamide /100 pc.

Locknut DIN 46319, with metric thread IEC 423.
For electrical function maintenance according to DIN 4102 Part 12 in connection with the junction boxes of the FireBox T series.



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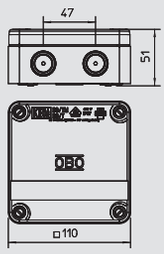
Always indicate the item number when ordering.

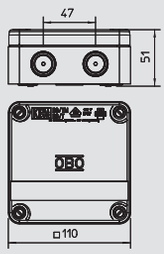


Junction box B 9/T, with perforation membrane

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 9 T M 5	1 terminal strip	Light grey	40		5	17.500	**2001 84 5**
B 9 T M	–	Light grey	40		5	13.100	**2001 85 3**
B 9 T M NL	3 cable glands	Light grey	40		5	17.100	**2001 86 1**
B 9 T M RO	–	Red grey	40		5	13.100	**2001 88 8**

PP Polypropylene /100 pc.

The wet-room junction box comprises two halogen-free plastic components, 8 threaded entries (M20 x 1.5), 1 additional entry in base with perforation membrane (for cable diameter up to 15 mm).
Where cable glands are used (giving additional strain relief) there is no need to remove the membrane (this saves time). Protection IP 67 with cable gland and for the perforation membrane.
Rated voltage 400 V; nominal cross-section 4 - 6 mm².
The lid is sealed with 4 pre-fitted rapid fastenings (180°). The fastening holes are additionally moulded with a soft plastic component for bolt ø 5 mm (spacing 75 mm).
2 fastening bolt caps and 1 fastening bolt.
Clear internal dimensions: 98 x 98 x 40 mm

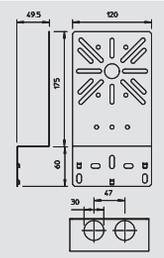


Junction box B 9/T, without perforation membrane

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 9 T 5	–	Light grey	40		5	17.500	**2001 80 2**

PP Polypropylene /100 pc.

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: 98 x 98 x 40

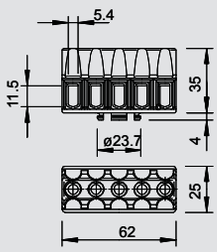


Mounting plate, junction box B 9/T

Type	Height mm	Width mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MP WI KL. FS	210	120		20	20.200	**7084 76 5**
MP WI KL. DD	210	120		20	20.200	**7085 11 1**

St Steel FS Strip-galvanised DD Zinc-aluminium coated, double-dip /pc.

Curved mounting plate, for fastening on the side rail of the cable tray.



Terminal strip, junction box, B 9/T

Type	Colour	No. of screwless terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL-T 02-06	Light grey	5	1.5-6	400	120		10	4.380	**2016 18 5**

PA Polyamide /100 pc.

Steel terminal block and bolts, galvanised and transparently passivated, nominal 1,5 - 6 mm², nominal voltage 400 V, 5-pole, with terminal sockets, Max. connectable cross-sections per terminal: 3 x 6 mm², 4 x 4 mm² or 6 x 2.5 mm² .

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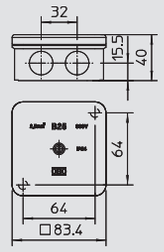
Junction box, Duroplast, B series

Junction box, B 25 M, without thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 25 M 5	1 terminal strip	Light grey	80		5	13.100	**2001 12 8**
B 25 M	–	Light grey	80		5	10.400	**2001 13 6**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, rated voltage 660 V, nominal cross-section 2,5 mm², two fastening holes for bolts of up to 4.5 mm Ø in the interior of the box (seals and covers included), M6 fastening thread and adhesive area under the base, 1 cover bolt, 7 break-out entries Ø 21 mm (M 20), with 4 cable entries EDVS 20 for cable diameters 7.5–14 mm.
Clear internal dimensions: 73 x 73 x 35 mm.

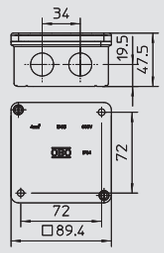


Junction box, B 40 M, without thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 40 M 5	1 terminal strip	Light grey	80		5	16.500	**2001 16 0**
B 40 M	–	Light grey	80		5	12.000	**2001 17 9**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, nominal voltage 660 V, nominal cross-section 4 mm², two fastening holes for bolts up to 4.5 mm Ø on the inside of the box, but outside the terminals. M6 fastening thread and adhesive area under the base. Two cover bolts, 7 break-out entries Ø 20 mm (M20), with 4 cable entries EDVS 20 for cable diameters 20–15 mm.
Clear internal dimensions: 78 x 78 x 43 mm.

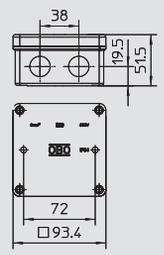


Junction box, B 60 M, without thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 60 M 5	1 terminal strip	Light grey	80		5	18.300	**2001 20 9**
B 60 M	–	Light grey	80		5	14.700	**2001 21 7**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, rated voltage 660 V, nominal cross-section 6 mm², two fastening holes for bolts of up to 4.5 mm Ø in the interior of the box (seals and covers included), M6 fastening thread and adhesive area under the base, four cover bolts, 7 break-out entries Ø 20.5 mm (M 20), with 4 cable entries EDVS 20 for cable diameters 7.5–15 mm.
Clear internal dimensions: 83 x 83 x 47 mm.

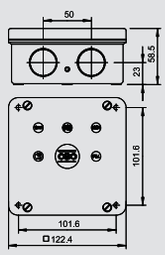


Junction box, B 100 M, without thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 100 M 5	1 terminal strip	Light grey	30		5	38.000	**2001 24 1**
B 100 M	–	Light grey	30		5	31.000	**2001 26 8**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, nominal voltage 660 V, nominal cross-section 10 mm², four fastening holes for bolts up to 5 mm Ø on the inside of the box, but outside the terminals. Four cover bolts, sealable with sealing caps supplied, 6 break-out entries Ø 25.5 mm (M25), with 4 push-in seals EDVS 25 for cable diameters 7.5–22 mm.
Clear internal dimensions: 108 x 108 x 51 mm.



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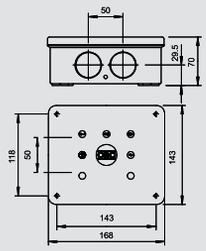
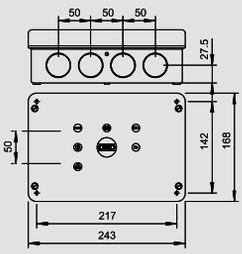


Junction box, B 160 M, without thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 160 M 5	1 Terminal strip	Light grey	10		1	70.000	**2001 29 2**
B 160 M	–	Light grey	10		1	55.000	**2001 30 6**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, nominal voltage 660 V, nominal cross-section 16 mm², four fastening holes for bolts up to 5.5 mm Ø on the inside of the box, but outside the terminals.
Four cover bolts, sealable with sealing caps supplied, 8 break-out entries Ø 32.5 mm (M 32), with 4 cable entries EDVS 32 for cable diameters 12–30 mm.
Clear internal dimensions: 150 x 125 x 61 mm.

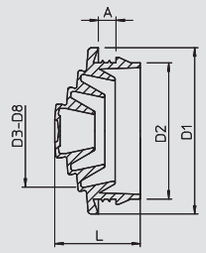


Junction box, B 250 M, without thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 250 M	–	Light grey	6		1	85.000	**2001 34 9**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, nominal voltage 660 V, nominal cross-section 25 mm², four fastening holes for bolts up to 5.5 mm Ø on the inside of the box, but outside the terminals.
Four cover bolts, sealable with sealing caps supplied, 12 break-out entries Ø 32.5 mm (M 32), with 4 push-in seals EDVS 32 for cable diameters 12–30 mm.
Clear internal dimensions: 224 x 149 x 75 mm.



Plug-in seal, B-series junction box

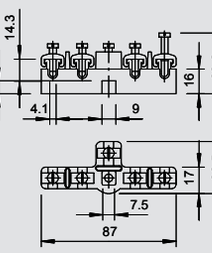
Type	Size	For Ø mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
EDVS M20 LGR	M 20	0-17	Light grey	1200		100	0.130	**2012 37 5**
EDVS M25 LGR	M 25	0-22	Light grey	1200		100	0.190	**2012 38 3**
EDVS M32 LGR	M 32	0-28	Light grey	600		50	0.300	**2012 39 1**

PE Polyethylene /100 pc.

The push-in nipple can be cut back to suit the relevant cable diameter.

Important dimensions, plug-in seal

G	L mm	A mm	D1 mm	D2 mm	D3 mm	D4 mm	D5 mm	D6 mm	D7 mm	D8 mm
M20	12.8	3.4	24.8	20.3	0 - 6	5 - 10	9 - 15	14 - 17		
M25	14.5	4.3	29.5	25.3	0 - 6	5 - 10	9 - 15	14 - 20	19 - 22	
M32	17.8	4.4	36.3	32.3	0 - 6	5 - 10	9 - 15	14 - 20	19 - 25	24 - 28



Terminal strip, junction box, B series

Type	No. of screw-less terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL 100	5	4-10	660	60		5	7.000	**2016 12 5**

MF Duroplast, melamine resin, type 150 /100 pc.

Nickel-plated brass terminals, steel screws, galvanised and transparently passivated, nominal cross-section 4 - 10 mm², nominal voltage 660 V, 5-pole, with terminal sockets, max. connectable cross-sections per terminal: 3 x 10 mm², 4 x 6 mm² or 4 x 4 mm².

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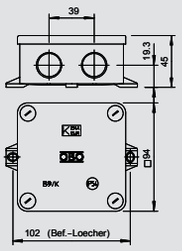
Junction box, Duroplast, B series

Junction box, B 9/K M empty, with thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 9 K M	3 cable glands	Light grey	60		5	13.500	**2001 94 2**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, empty box for use with individual terminals, four plastic cover bolts, thus absolute corrosion-protection, two fastening bases for bolts of up to 5 mm Ø, 7 break-out entries with thread M20 x 1.5. 3 polyamide cable glands for cable diameters of 9–12 mm, type 106 M.
Clear internal dimensions: 84 x 84 x 34 mm.

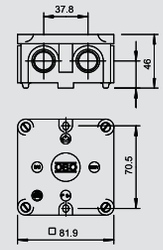


Junction box, B 9/B M, with thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 9 B M 5	1 terminal strip	Light grey	80		5	16.000	**2001 61 6**
B 9 B M	–	Light grey	80		5	9.960	**2001 63 2**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, nominal voltage 660 V, nominal cross-section 2,5 mm², two fastening holes for bolts up to 5 mm Ø on the outside of the box, four cover bolts, 7 break-out entries with thread M20 x 1.5, primarily for cable glands with short connecting thread.
Clear internal dimensions: 73 x 73 x 35 mm.

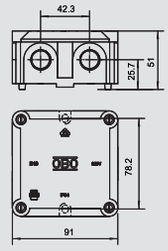


Junction box, B 10 M, with thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 10 M 5	1 terminal strip	Light grey	80		5	22.480	**2002 14 0**
B 10 M	–	Light grey	80		5	17.360	**2002 16 7**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, rated voltage 660 V, nominal cross-section 2,5 - 4, in combination with the earthing terminal 700/6 M, the box has the nominal cross-section 4 mm², two fastening holes for bolts of up to 5 mm Ø on the outer side of the box. Four cover lids, 7 break-out entries with thread M20 x 1.5, primarily for cable glands with short connecting thread.
Clear internal dimensions: 80 x 80 x 39 mm.

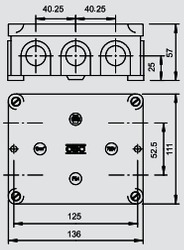


Junction box, B 11 M, with thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 11 M 5	1 terminal strip	Light grey	24		1	39.700	**2002 32 9**
B 11 M	–	Light grey	24		1	32.200	**2002 34 5**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, nominal voltage 660 V, nominal cross-section 10 mm², two fastening holes for bolts up to 6 mm Ø on the outside of the box, four cover bolts, 10 break-out entries with thread M20 x 1.5, primarily for cable glands with short connecting thread.
Clear internal dimensions: 125 x 100 x 44 mm.



Always indicate the item number when ordering.

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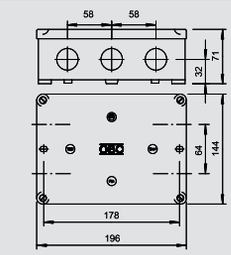
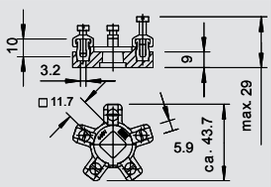


Junction box, B 12 M, with thread

Type	Accessories	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
B 12 M 5	1 terminal strip	Light grey	12		1	96.700	**2002 50 7**
B 12 M	–	Light grey	12		1	65.500	**2002 52 3**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, nominal voltage 660 V, nominal cross-section 16 mm², two fastening holes for bolts up to 6 mm Ø on the outside of the box. Four cover bolts, 10 break-out entries with thread M25 x 1.5.
Clear internal dimensions: 178 x 126 x 57 mm.

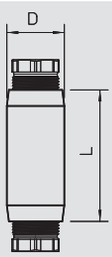


Terminal strip, junction box, B series

Type	No. of screw-less terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
700 6	5	4-6	660	120		10	3.460	**2017 29 6**

MF Duroplast, melamine resin, type 150 /100 pc.

Nickel-plated brass terminals, steel screws, galvanised and transparently passivated, nominal cross-section 4 - 6 mm², nominal voltage 660 V, 5-pole, with terminal sockets, max. connectable cross-sections per terminal: 3 x 6 mm², 4 x 4 mm² 5 x 2.5 mm² or 8 x 1.5 mm².



Cable connection sleeve

Type	Entries	Dimension D mm	Dimension L mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
117 5x2.5	Pg 16	28	64	Light grey	100		10	5.310	**2022 02 8**
117 5x6	Pg 21	33.5	82	Light grey	60		5	14.600	**2022 06 0**

PS Polystyrene /100 pc.

Protection rating IP54, nominal voltage 660 V. VDE specifications state that connection sleeves are only intended for local routing.

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Always indicate the item number when ordering.

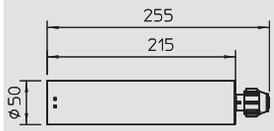
Aquasit cold casting compound

IP 68 | 400 V | Fluor Chlor Brom HALOGENFREE

Aquasit cartridge

Type	Contents		Pack.	Weight	Item No.
	ml		pcs	kg/100 pcs.	
KVM	250		1	42.000	**2363 01 0**

/pc.



Aquasit is a two-component casting compound in a cartridge, for applications in areas with continuous and extremely high levels of moisture. It can also be used against mechanical shock and vibrations.
The cartridge is suitable for use in standard cartridge pistols. At room temperature, the unopened aluminium packaging can be stored for up to 18 months. When the cartridge is opened, the material should be used within 24 hours.
Aquasit properties:
Protection rating: IP68 at 1.8 bar/1.000 h
Rated voltage: 400 V
Penetration resistance: >20 kv/mm to VDE 0291 Part 2
Insulation resistance: > 50 MΩ
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

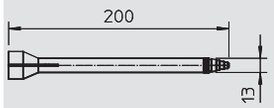
Aquasit material consumption

Type	A6	A8	A11	A14	A18	T25	T40	T60	T100	B9/T
Quantity Cartridges per junction box	0.3	0.5	0.8	1.1	1.4	0.7	1.0	1.7	2.9	1.6

AQUASIT mixer pipe

Type		Pack.	Weight	Item No.
		PU	kg/100 PUs	
KVM-M		1	17.000	**2363 01 5**

/VPE

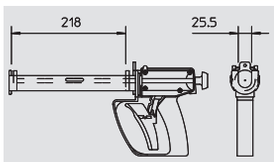


10 mixer pipes in the set.
Simple, automatic mixing of OBO AQUASIT when pressing out the compound from the cartridge.

Aquasit cartridge pistol

Type		Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
KVM-P		2	100.000	**2363 01 9**

/pc.



High-quality one-component cartridge pistol for use with the AQUASIT cold casting compound.
The cartridge pistol can also be used with normal 300 ml cartridges.

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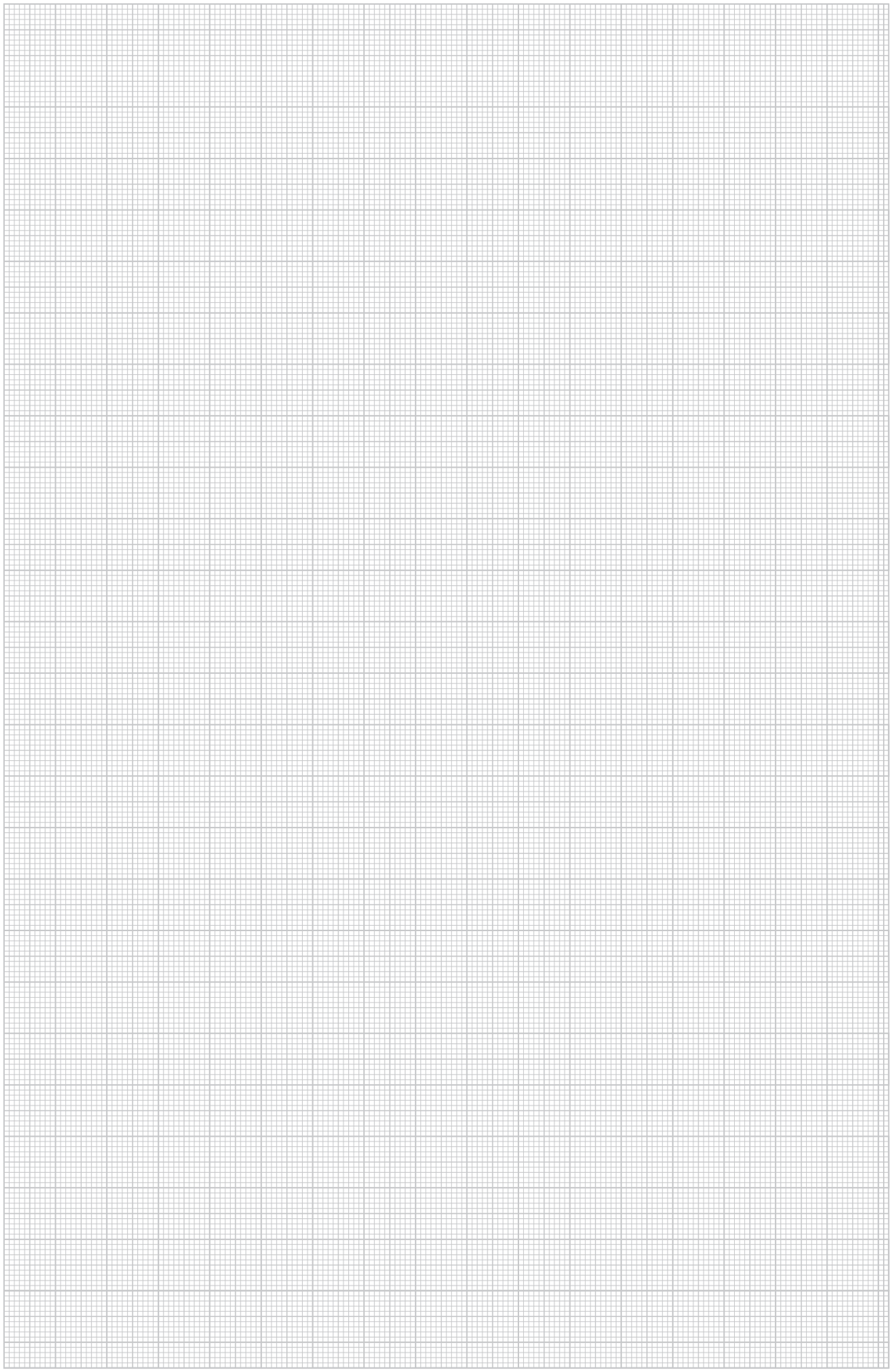
Always indicate the item number when ordering.



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Concealed and cavity wall systems

	Concealed	Concealed accessory socket	192
		Concealed accessory/connection socket	192
		Concealed accessory/connection socket	192
		Concealed accessory socket with nail strap	192
		Concealed accessory/connection socket with nail strap	193
		Concealed connection socket	193
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		Concealed accessory socket Modul 45	198
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		Cavity wall, double accessory socket	199
		Modul 45 cavity wall accessory socket	201

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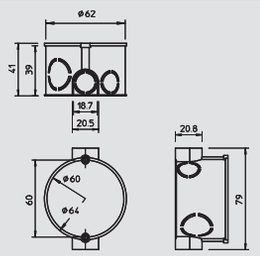
Ø 60

Concealed accessory box

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 D	Concealed	Black	300		25	1.490	**2003 01 5**

PS Polystyrene /100 pc.

Accessory socket with torsion-resistant guaranteed standard combination spacing of 71 mm (to DIN 49 073–1) through snap-lock coupling. 7 break-out openings for cables and pipes Ø 20 mm and Ø 25 mm. Combinable for spreading and screw fastening, low-laying plaster holders, device screw spacing 60 mm, for screw fastening with self-tapping screws 3.2 mm, with two screw domes without screws, protection rating IP20.



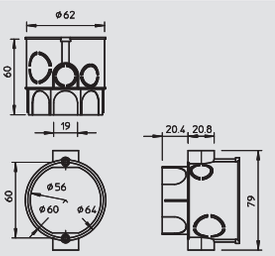
Ø 60

Concealed accessory/connection socket

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 VD	Concealed	Black	200		25	1.800	**2003 01 9**

PS Polystyrene /100 pc.

Accessory/connection socket with torsion-resistant guaranteed standard combination spacing of 71 mm (to DIN 49 073–1) through snap-lock coupling. 13 break-out openings for cables and pipes Ø 20 mm and Ø 25 mm. Combinable for spreading and screw fastening, low-laying plaster holders, device screw spacing 60 mm, for screw fastening with self-tapping screws 3.2 mm, with two screw domes without screws, protection rating IP20.



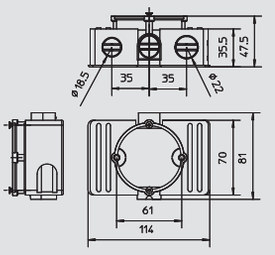
Ø 60

Concealed accessory/connection box

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 VK	Concealed	Black	100		10	4.600	**2003 02 3**

PS Polystyrene /100 pc.

Accessory/connection socket with increased socket volume on both sides of device installation opening to accept connection terminals. Torsion-resistant guaranteed standard combination spacing of 71 mm (to DIN 49 073–1) through snap-lock coupling. 8 break-out openings for cables and pipes to Ø 21 mm, low-laying plaster holders, device screw spacing 60 mm, for screw fastening with self-tapping screws 3.2 mm, with four screw domes and two device screws, protection rating IP20.

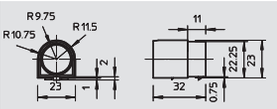


Expansion support for concealed accessory sockets

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG AS	Concealed	Black	500		25	0.290	**2003 21 2**

PS Polystyrene /100 pc.

Expansion support suitable for all sockets with tunnel support. Suitable for the combination of heavy and weak current devices and telecommunications equipment using separated covers, combination spacing 90 mm.



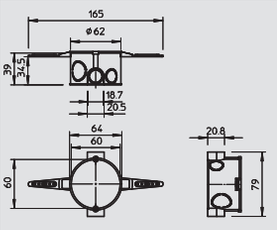
Ø 60

Concealed accessory socket with nail strap

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 D NL	Concealed	Black	100		100	2.100	**2003 03 1**

PS Polystyrene /100 pc.

Accessory socket with nail straps. These are used as a mounting aid to prefix the sockets, nail diameter max. 3 mm, plaster thickness min. 8 mm. Torsion-resistant guaranteed standard combination spacing of 71 mm (to DIN 49 073–1) through snap-lock coupling, 7 break-out openings for cables and pipes Ø 20 mm and Ø 25 mm. Combinable for spreading and screw fastening, low-laying plaster holders, device screw spacing 60 mm, for screw fastening with self-tapping screws 3.2 mm, with two screw domes without screws, protection rating IP20.



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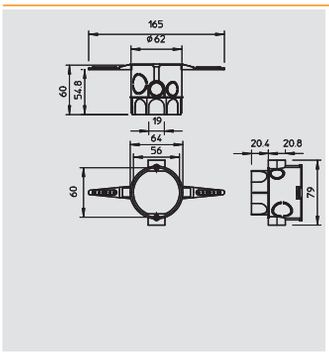


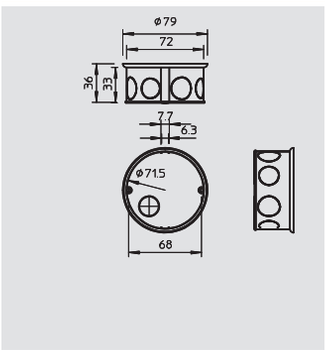
Concealed accessory/connection socket with nail strap

Ø 60

Type	Colour	Height mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 VD NL	Black	62	100		100	2.480	**2003 03 5**

PS Polystyrene /100 pc.

Accessory/connection socket with nail straps. These are used as a mounting aid to prefix the sockets. Nail diameter max. 3 mm, plaster thickness min. 8 mm, with increased socket volume to accept connection terminals. Torsion-resistant guaranteed standard combination spacing of 71 mm (to DIN 49 073–1) through snap-lock coupling. 13 break-out openings for cables and pipes Ø 20 mm and Ø 25 mm. Combinable for spreading and screw fastening, low-laying plaster holders, device screw spacing 60 mm, for screw fastening with self-tapping screws 3.2 mm, with two screw domes without screws, protection rating IP20.



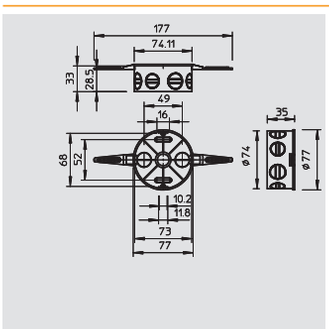
Concealed connection socket

Ø 70 ÖVE DVE

Type	Colour	Height mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UV 70 D	Black	36	250		25	1.880	**2003 04 3**

PS Polystyrene /100 pc.

Connection socket for connecting six terminals 1.5 mm² or five terminals 2.5 mm². 9 break-out openings for cables and pipes to Ø 21 mm, in conjunction with the cover and cover bolts, the connection sockets achieve the VDE test mark to 0606 and are flame-resistant to VDE 0471/DIN 695 Part 2-1, testing temperature 750 °C, protection rating IP20.



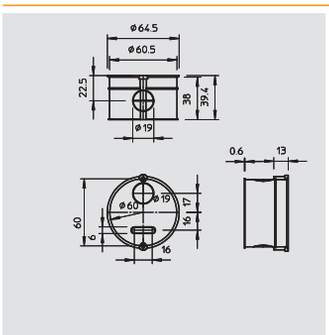
Concealed connection socket with nail strap

Ø 70 ÖVE DVE

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UV 70 D NL	Concealed	Black	100		100	2.250	**2003 04 7**

PS Polystyrene /100 pc.

Connection socket with nail straps. These are used as a mounting aid to prefix the sockets. Nail diameter max. 3 mm, plaster thickness min. 8 mm. Connection socket for connecting six terminals 1.5 mm² or five terminals 2.5 mm². 9 break-out openings for cables and pipes to Ø 21 mm, in conjunction with cover and cover bolts, the connection sockets achieve the VDE test mark to 0606 and are flame-resistant to VDE 0471/DIN 695 Part 2-1, testing temperature 750 °C, protection rating IP20.



Concealed accessory socket without support

Ø 60 ÖVE

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 DOS	Concealed	Black	250		25	1.530	**2003 05 8**

PS Polystyrene /100 pc.

Accessory socket without support is suitable for use in facing masonry, 3 break-out openings for cables and pipes Ø 19 mm combinable for spreading and screw fastening, low-laying plaster holders, device screw spacing 60 mm, for screw fastening with self-tapping screws 3.2 mm, with two screw domes without screws, protection rating IP20.

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Concealed connection box

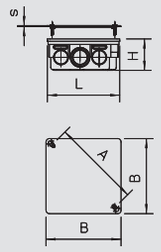
Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UV 80 K	Concealed	Black	50		50	4.500	**2003 11 2**
UV 100 K	Concealed	Black	100		100	6.400	**2003 11 8**
UV 150 K	Concealed	Black	30		30	15.670	**2003 12 4**
UV 200 K	Concealed	Black	10		10	35.710	**2003 13 0**
UV 250 K	Concealed	Black	10		10	52.000	**2003 13 6**

PS Polystyrene /100 pc.

Connection box for connecting terminals, with cover and cover bolts (15 mm), cover edge is flush, surface is roughened, in conjunction with cover and cover bolts, the connection sockets achieve the VDE test mark to VDE 060 and are flame-resistant to VDE 0471/DIN 695 Part 2-1, testing temperature 750 °C, protection rating IP20.

Important dimensions, connection box

Type	A mm	B mm	H mm	L mm	s mm
UV80K	102	97	45	85	1.5
UV100K	130	114	45	107	1.5
UV150K	200	170	65	150	1.75
UV200K	260	210	65	200	2.0
UV250K	328	260	65	250	2.5

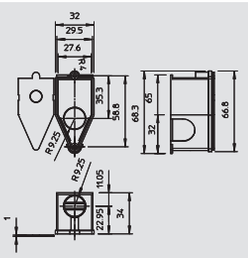


Wall light connection socket

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UWA	Concealed	Cream	250		25	1.120	**2003 08 2**

PS Polystyrene /100 pc.

Wall light connection socket with internal cover, compartment for three connection terminals, use according to VDE 0100, 3 break-out openings for cables and pipes Ø 18.7 mm, do not use as connection socket, protection rating IP20.

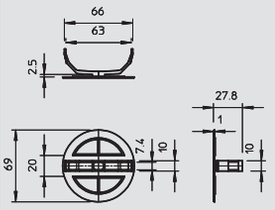


Sprung cover, 60 mm

Type	Colour	Ø max.	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 FD	White	69	500		25	0.810	**2003 22 3**

PS Polystyrene /100 pc.

Sprung cover with centrally moulded, elastic spreading spring, for sockets with Ø 60 mm, cover edge is flush, surface is roughened.

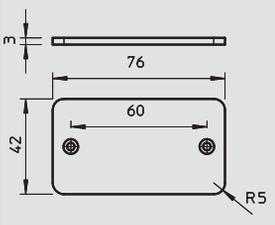


Wall light socket cover

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UW AD	Concealed	White	250		10	0.600	**2003 21 8**

PS Polystyrene /100 pc.

Wall light socket cover for flush closure of the wall outlet socket, surface is roughened, cover bolts can be lowered. Delivery including two 15 mm bolts.

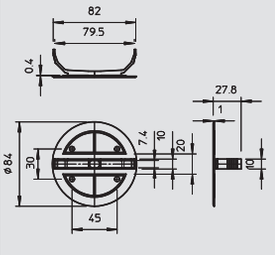


Sprung cover, 70 mm

Type	Colour	Ø max.	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UV 70 FD	White	84	500		25	1.200	**2003 22 7**

PS Polystyrene /100 pc.

Sprung cover with centrally moulded, elastic spreading spring, for sockets with Ø 70 mm, cover edge is flush, surface is roughened.



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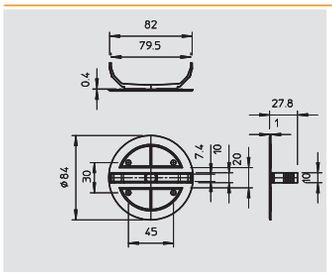


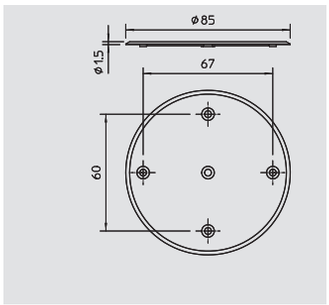
Sprung cover, 80 mm

Ø 74

Type	Colour	Ø max.	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UV 80 FD	White	95	500		25	1.500	**2004 63 4**

PS Polystyrene /100 pc.

Sprung cover with centrally moulded, elastic spreading spring, for sockets with Ø 80 mm, cover edge is flush, surface is roughened.

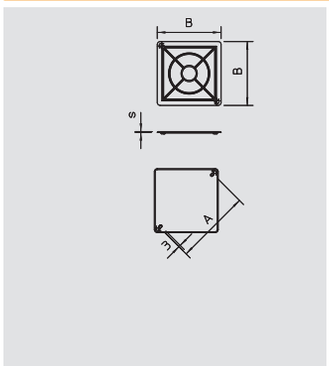


Universal cover

Type	Colour	Ø max.	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG UD	White	84	400		20	1.070	**2003 23 6**

PS Polystyrene /100 pc.

Universal cover for all socket types, cover with central fastening for connection sockets, bolt hole spacing 60 mm for accessory sockets and device connection sockets, bolt hole spacing 67 mm for connection sockets, cover edge is flush, surface is roughened, lowerable cover bolts.

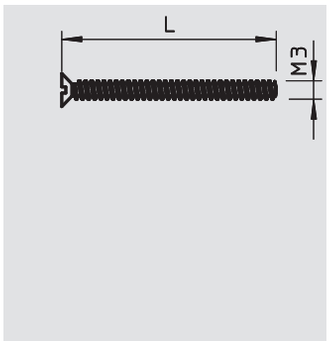


Box cover

Type	Installation type	Dimension A mm	Dimension B mm	Dimension s mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UV 80 D	Concealed	102	97	1.5	White	250		10	1.270	**2003 24 0**
UV 100 D	Concealed	130	114	1.5	White	240		10	2.000	**2003 24 4**
UV 150 D	Concealed	200	170	1.75	White	150		5	4.850	**2003 24 8**
UV 200 D	Concealed	260	210	2	White	50		5	9.500	**2003 25 2**
UV 250 D	Concealed	328	260	2.5	White	25		5	17.190	**2003 25 6**

PS Polystyrene /100 pc.

Box cover suitable for the connection sockets, type UV...K, cover edge is flush, surface is roughened, cover bolts can be lowered.

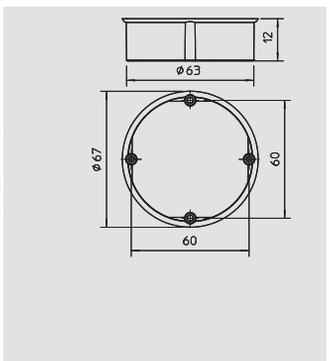


Device screw

Type	Dimension L mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
U 15 GS	15	3000		100	0.060	**2003 26 5**
U 20 GS	20	2500		100	0.090	**2004 67 6**
U 25 GS	25	2000		100	0.090	**2003 26 9**
U 30 GS	30	2000		100	0.110	**2004 68 0**
U 35 GS	35	1500		100	0.120	**2003 27 3**
U 40 GS	40	1000		100	0.140	**2003 27 7**

St Steel G Electrogalvanised /100 pc.

Screws suitable for different types of device and lid fastening, with self-tapping thread Ø 3.2 mm.



Surface equalisation ring, 12 mm, accessory sockets

Ø 60

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 PA 12	Concealed	Red	250		25	0.700	**2003 28 7**

PS Polystyrene /100 pc.

Compensation ring to screw onto deeply concealed accessory sockets and accessory connection sockets, can be combined, when they are screwed on at a 90° offset. Compensation heights selectable by combining the different types, with two device/cover screws 15 mm and two fastening screws, protection rating IP20.

Concealed systems

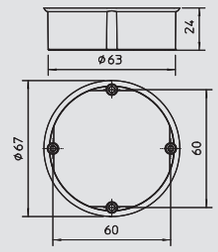
Ø 60

Surface equalisation ring, 24 mm, accessory sockets

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 PA 24	Concealed	Red	250		25	1.100	**2003 29 5**

PS Polystyrene /100 pc.

Compensation ring to screw onto deeply concealed accessory sockets and accessory connection sockets, can be combined, when they are screwed on at a 90° offset. Compensation heights selectable by combining the different types, with two device/cover screws 15 mm and two fastening screws, protection rating IP20.



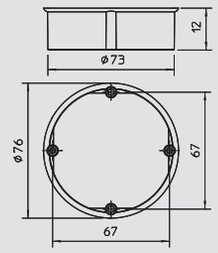
Ø 70

Surface equalisation ring, 12 mm, connection sockets

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UV 70 PA 12	Concealed	Red	100		25	1.150	**2003 29 1**

PS Polystyrene /100 pc.

Compensation ring to screw onto deeply concealed connection sockets, can be combined, when they are screwed on at a 90° offset. Compensation heights selectable through combination of the various types, with 2 device/cover screws 15 mm and 2 fastening screws, protection rating IP20.



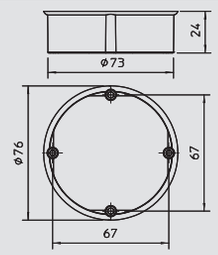
Ø 70

Surface equalisation ring, 24 mm, connection sockets

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UV 70 PA 24	Concealed	Red	100		25	1.850	**2003 29 9**

PS Polystyrene /100 pc.

Compensation ring to screw onto deeply concealed connection sockets, can be combined, when they are screwed on at a 90° offset. Compensation heights selectable through combination of the various types, with 2 device/cover screws 15 mm and 2 fastening screws, protection rating IP20.



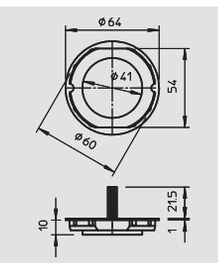
Ø 60

Signal cover 60 mm, accessory sockets

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UG 60 SD	Concealed	Red	500		50	0.550	**2003 31 7**

PE Polyethylene /100 pc.

Signal covers protect the interior, the screw domes and screw heads on plastering. The marking bristles allow simple location of the sockets and boxes after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.



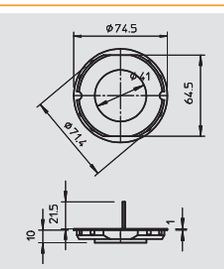
Ø 70

Signal cover, 70 mm, connection sockets

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UV 70 SD	Concealed	Red	25		25	0.680	**2003 32 1**

PE Polyethylene /100 pc.

Signal covers protect the interior, the screw domes and screw heads on plastering. The marking bristles allow simple location of the sockets and boxes after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.



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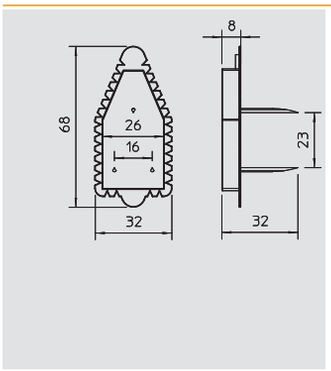
Always indicate the item number when ordering.

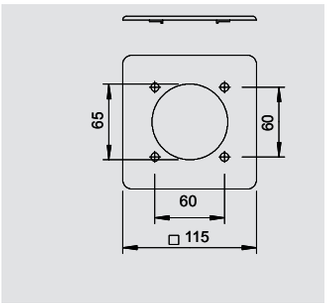


Signal cover, wall luminaire socket

Type	Installation type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
UW ASD	Concealed	Red	100		100	0.200	**2003 32 5**

PE Polyethylene /100 pc.

Signal covers protect the interior, the screw domes and screw heads on plastering. The marking bristles allow simple location of the sockets and boxes after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.



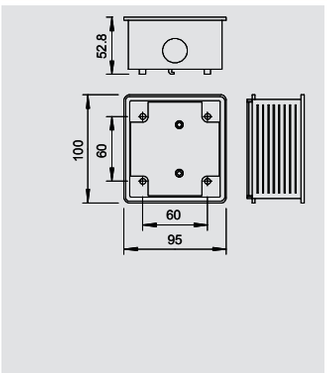
CEE cover plate for fitted plug

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
2393 UP	Light grey		5	4.300	**6024 10 6**

PA Polyamide /pc.

The cover plate, together with the concealed installation box, allows tidy wall closure.

The underfloor box is placed on the floor connectors and fastened in the centre with a bolt.



CEE installation box

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
2392	Light grey		5	10.500	**6024 00 9**

PA/GF Polyamide, fibre-glass reinforced /pc.

Underfloor box for mounting CEE sockets in WDK trunking. Also suitable as concealed installation box for CEE sockets.

Concealed installation box for installing CEE sockets. The underfloor box can also be used for installing WDK trunking.
Straight version, 16 and 32 A, with 60 x 60 mm hole spacing.
Supplied complete with one strain relief clip.
1 plug-in seal ED 16.
1 screw plug VS 16 and 4 cylinder bolts M5 x 18 to fasten the socket.

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Modul 45 concealed systems

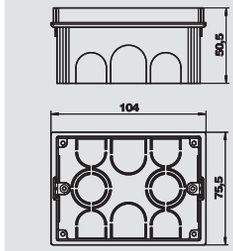
Concealed accessory socket Modul 45, single

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
UG-UPM1	Natural		1	3.200	**6119 94 0**

/pc.

Concealed accessory socket, rectangular, to accept support plates, type TG-UPM1, for Modul 45 devices of up to 1.5x module width = 67.5 mm, with breakable openings for cables and pipes.

Note: Always plaster the concealed accessory socket together with the appropriate plaster cover.



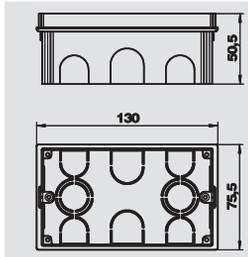
Concealed accessory socket Modul 45, double

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
UG-UPM2	Natural		1	4.550	**6119 94 1**

/pc.

Concealed accessory socket, rectangular, to accept support plates, type TG-UPM2, for Modul 45 devices of up to 2x module width = 90 mm, with breakable openings for cables and pipes.

Note: Always plaster the concealed accessory socket together with the appropriate plaster cover.



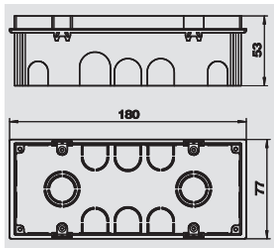
Concealed accessory socket Modul 45, triple

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
UG-UPM3	Natural		1	6.220	**6119 94 3**

/pc.

Concealed accessory socket, rectangular, to accept support plates, type TG-UPM3, for Modul 45 devices of up to 3x module width = 135 mm, with breakable openings for cables and pipes.

Note: Always plaster the concealed accessory socket together with the appropriate plaster cover.

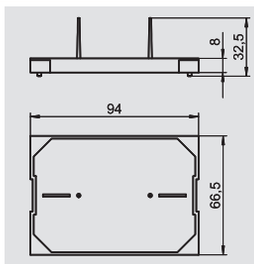


Signal cover for Modul 45 accessory socket, single

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
PD-UPM1	Red		1	0.550	**6119 94 5**

/pc.

The signal cover for the concealed accessory socket UG-UGM1 protects the interior, the bolt domes and bolt heads on plastering. The marking bristles allow simple location of the sockets after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.

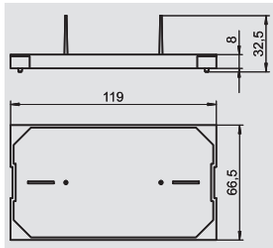


Signal cover for Modul 45 accessory socket, double

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
PD-UPM2	Red		1	0.100	**6119 94 6**

/pc.

The signal cover for the concealed accessory socket UG-UGM2 protects the interior, the bolt domes and bolt heads on plastering. The marking bristles allow simple location of the sockets after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.

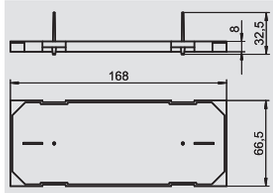


Signal cover for Modul 45 accessory socket, triple

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
PD-UPM3	Red		1	1.300	**6119 94 7**

/pc.

The signal cover for the concealed accessory socket UG-UGM3 protects the interior, the bolt domes and bolt heads on plastering. The marking bristles allow simple location of the sockets after plastering. The signal covers can be used several times. After plastering, simply push the cover into the socket and remove the signal cover.



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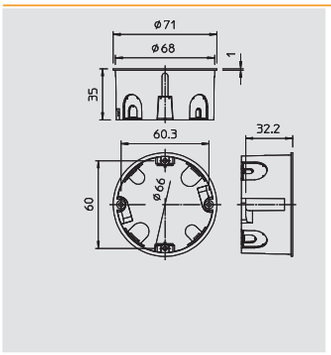
Always indicate the item number when ordering.



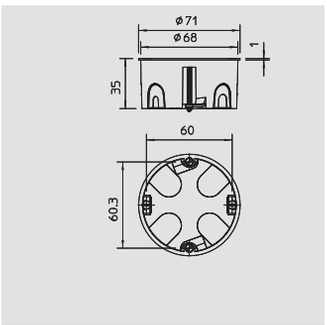
Cavity wall accessory socket

Ø 68

Type	Colour	Milling hole Ø mm	Height mm	Ø max.	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HG 60-35	Orange	68	35	68	250	25	1.810	**2003 42 6**

PP Polypropylene /100 pc.

Cavity wall accessory socket. Dimensions to DIN 49073-1, for plate thickness 7–35 mm. Standard combination spacing 71 mm, option for continuous wiring using connection support for combinations between accessory sockets and accessory connection sockets, 8 break-out openings for NYM cables, data cables and pipes Ø 20 mm, accessory sockets can also be used as connection sockets to VDE 0606-1 with double bolt fastening and screw-on cover, protection rating IP20.



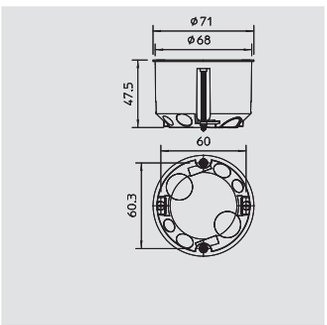
Cavity wall accessory socket, wind-proof

Ø 68

Type	Colour	Milling hole Ø mm	Height mm	Ø max.	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HG 60-35 MW	Orange	68	35	68	250	25	1.280	**2003 60 3**

PP Polypropylene /100 pc.

Cavity wall accessory socket, wind-tight version through soft entry membrane. Dimensions to DIN 49073–1, for plate thickness 7–35 mm. Standard combination spacing 71 mm, option for continuous wiring using connection support for combinations between accessory sockets and accessory connection sockets, 8 wind-proof insertion membrane for NYM cables, data cables and pipes Ø 20 mm, accessory sockets can also be used as connection sockets to VDE 0606–1 with double bolt fastening and screw-on cover, protection rating IP40.



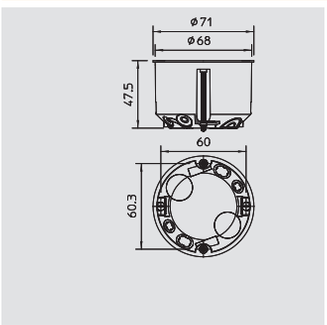
Cavity wall accessory socket

Ø 68

Type	Colour	Milling hole Ø mm	Height mm	Ø max.	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HG 60	Orange	68	47	68	250	25	2.240	**2003 41 4**

PP Polypropylene /100 pc.

Cavity wall accessory socket. Dimensions to DIN 49073-1, for plate thickness 7–35 mm. Standard combination spacing 71 mm, option for continuous wiring using connection support for combinations between accessory sockets and accessory connection sockets, 8 break-out openings for NYM cables, data cables and pipes Ø 20 mm, accessory sockets can also be used as connection sockets to VDE 0606-1 with double bolt fastening and screw-on cover, protection rating IP20.



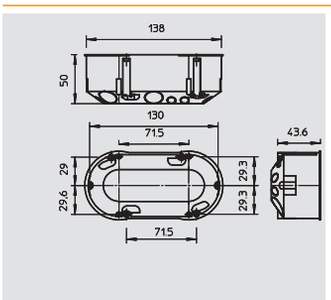
Cavity wall accessory socket, wind-proof

Ø 68

Type	Colour	Milling hole Ø mm	Height mm	Ø max.	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HG 60 MW	Orange	68	47	68	250	25	1.490	**2003 61 1**

PP Polypropylene /100 pc.

Cavity wall accessory socket, wind-tight version through soft entry membrane. Dimensions to DIN 49073–1, for plate thickness 7–35 mm. Standard combination spacing 71 mm, option for continuous wiring using connection support for combinations between accessory sockets and accessory connection sockets, 8 wind-proof insertion membrane for NYM cables, data cables and pipes Ø 20 mm, accessory sockets can also be used as connection sockets to VDE 0606–1 with double bolt fastening and screw-on cover, protection rating IP40.



Cavity wall, double accessory socket

Ø 68

Type	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HG 60 2	Orange	100	10	4.850	**2003 42 2**

PP Polypropylene /100 pc.

Double accessory socket, for two service units or one double service unit, with four device bolts. Dimensions to DIN 49073-1, for plate thickness 7–35 mm. Standard combination spacing 71 mm,
14 break-out openings for NYM cables, data cables and pipes Ø 20 mm, protection rating IP20.

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Cavity wall systems

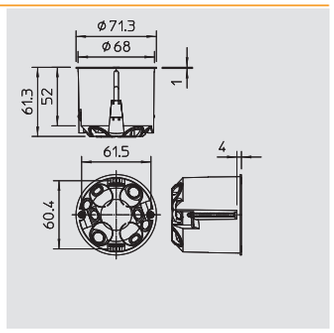
Ø 68

Cavity wall accessory/connection socket

Type	Colour	Milling hole Ø mm	Height mm	Ø max.	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HV 60	Orange	68	61	68	200	25	2.740	**2003 44 2**

PP Polypropylene /100 pc.

Cavity wall accessory/connection socket. Dimensions to DIN 49073-1, for plate thickness 7–35 mm. Standard combination spacing 71 mm, option for continuous wiring using connection support for combinations between accessory sockets and accessory connection sockets, 8 break-out openings for NYM cables, data cables and pipes Ø 20 mm, accessory sockets can also be used as connection sockets to VDE 0606-1 with double bolts fastening and screw-on cover, protection rating IP20.



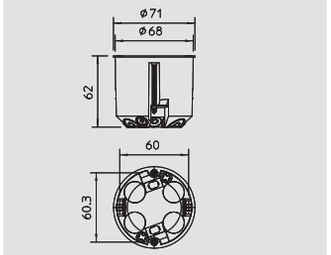
Ø 68

Cavity wall accessory/connection socket, wind-proof

Type	Colour	Milling hole Ø mm	Height mm	Ø max.	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HV 60 MW	Orange	68	61	68	200	25	1.850	**2003 61 9**

PP Polypropylene /100 pc.

Cavity wall accessory/connection socket, wind-tight version through soft entry membrane. Dimensions to DIN 49073–1, for plate thickness 7–35 mm. Standard combination spacing 71 mm, option for continuous wiring using connection support for combinations between accessory sockets and accessory connection sockets, 8 wind-proof insertion membrane for NYM cables, data cables and pipes Ø 20 mm, accessory sockets can also be used as connection sockets to VDE 0806–1 with double bolt fastening and screw-on cover, protection rating IP40.



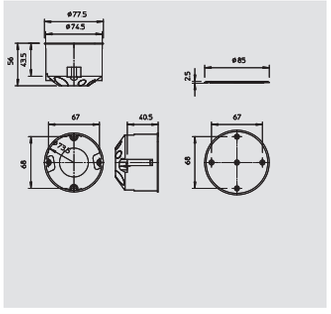
Ø 74

Cavity wall connection socket with cover

Type	Colour	Milling hole Ø mm	Height mm	Ø max.	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HV 70 D	Orange	74	50	74	100	10	3.650	**2003 43 0**

PP Polypropylene /100 pc.

Cavity wall connection socket with cover, dimensions to DIN 49073-1, for plate thickness 7–35 mm. 8 break-out openings for NYM cables, data cables and pipes Ø 20 mm, protection rating IP20.

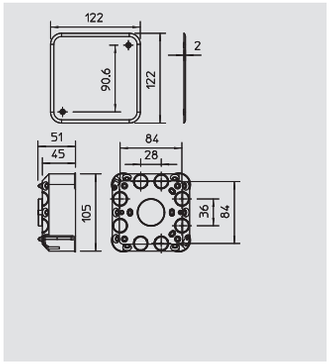


Cavity wall connection box

Type	Colour	Height mm	Length mm	Width mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HV 100 KD	Orange	50	105	105	25	25	6.300	**2003 44 9**

PP Polypropylene /100 pc.

Cavity wall connection box, 20 break-out openings for NYM cables, data cables and pipes Ø 20 mm, with cover and cover bolt, with white cover and cover bolts (flame-resistant to VDE 0471/DIN 695 Part 2–1, testing temperature 750 °C), for plate thickness 7–35 mm. Suitable for installation of standard rails (hat and support rails) for series terminals, protection rating IP20.

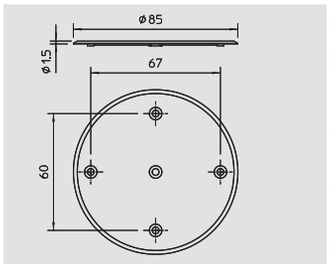


Universal cover

Type	Colour	Ø max.	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
UG UD	White	84	400	20	1.070	**2003 23 6**

PS Polystyrene /100 pc.

Universal cover for all socket types, cover with central fastening for connection sockets, bolt hole spacing 60 mm for accessory sockets and device connection sockets, bolt hole spacing 67 mm for connection sockets, cover edge is flush, surface is roughened, lowerable cover bolts.



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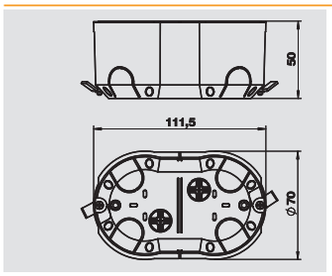
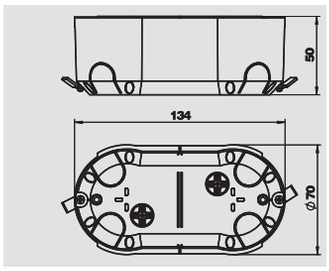


Modul 45 cavity wall accessory socket, single

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
HG-UPM1	Blue		1	3.300	**6119 95 0**

/pc.

Cavity wall accessory socket, oval, to accept support plates, type TG-UPM1, for Modul 45 devices of up to 1.5x module width = 67.5 mm, drill hole diameter 68 mm, hole spacing 45 mm.

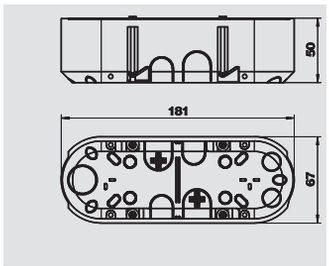


Modul 45 cavity wall accessory socket, double

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
HG-UPM2	Blue		1	4.600	**6119 95 1**

/pc.

Cavity wall accessory socket, oval, to accept support plates, type TG-UPM2, for Modul 45 devices of up to 2x module width = 90 mm, drill hole diameter 68 mm, hole spacing 68 mm.



Modul 45 cavity wall accessory socket, triple

Type	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
HG-UPM3	Blue		1	6.300	**6119 95 2**

/pc.

Cavity wall accessory socket, oval, to accept support plates, type TG-UPM3, for Modul 45 devices of up to 3x module width = 135 mm, drill hole diameter 68 mm, hole spacing 112 mm.

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Terminal systems

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	Screwless terminals	Screwless terminals	208
		Luminaire connection terminals	208
	Screw terminals for junction boxes	Terminal strips and accessories	209

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Screw terminals

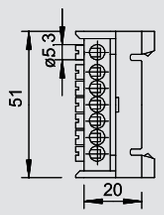
Neutral and protective conductor terminals, 7-pole

16 mm² – 7 – Fluor Chlor Brom HALOGENFREE – 960°

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
60 N 7x16 BL	Blue	100		10	2.900	**2054 00 0**
60 S 7x16 GBGN	Yellow green	100		10	2.900	**2054 01 9**

PA Polyamide /100 pc.

With 7 terminals to 16 mm².
Clamping rail, nickel-plated brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 mm hat rails to DIN EN 50022 (transverse) or flat rails 10 x 2–2.5 mm (lengthwise).



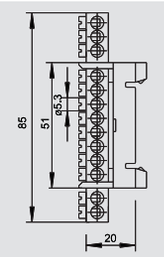
Neutral and protective conductor terminals, 12-pole

16 mm² – 12 – Fluor Chlor Brom HALOGENFREE – 960°

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
60 N 12x16 BL	Blue	200		10	4.200	**2054 08 6**
60 S 12x16 GBGN	Yellow green	200		10	4.200	**2054 09 4**

PA Polyamide /100 pc.

With 12 terminals to 16 mm².
Clamping rail, nickel-plated brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 mm hat rails to DIN EN 50022 (transverse) or flat rails 10 x 2–2.5 mm (lengthwise).



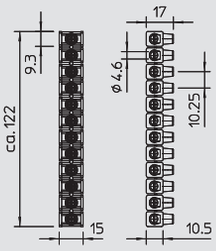
Dolü branch terminals, open on both sides

2,5 mm² – 12 – Fluor Chlor Brom HALOGENFREE – VDE

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
70 VDE	(sorted)	400		10	2.500	**2055 02 3**

PA Polyamide /100 pc.

* 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.



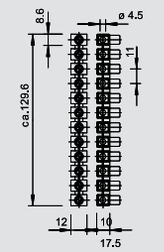
Dolü branch terminals, open on one side

2,5 mm² – 12 – Fluor Chlor Brom HALOGENFREE – VDE

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
70 S	(sorted)	180		10	2.600	**2055 20 1**

PA Polyamide /100 pc.

Terminals made of brass, screws of steel, galvanised and transparently passivated, 12-pole, strip separable into individual terminals, only open on one side.
Closed on one side, captive upwards screw.
Nominal cross-section 2,5 mm².
Nominal voltage 380 V.
Nominal current 20 A.
Max. connectable cross-sections per terminal: 4 x 2.5 mm², 5 x 1.5 mm² or 6 x 1 mm².
Delivery sorted by colour: 3 black, 2 blue, 3 yellow-green, 1 brown and 1 grey strip in each packaging unit.



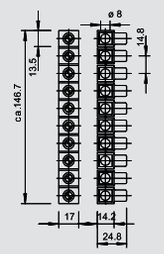
Dolü branch terminals, open on both sides

10 mm² – 10 – Fluor Chlor Brom HALOGENFREE – 960°

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
71	Black	120		10	7.030	**2055 50 3**

PP Polypropylene /100 pc.

Terminals made of brass, screws of steel, galvanised and transparently passivated, 10-pole, strip separable into individual terminals, open on both sides.
Captive upwards screw.
Nominal cross-section 10 mm².
Nominal voltage 380 V.
Max. connectable cross-sections per terminal: 3 x 10 mm², 4 x 6 mm².



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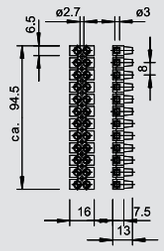
Always indicate the item number when ordering.

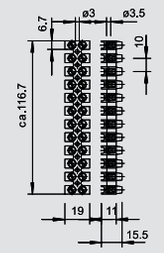


4 mm² series connector, polyamide

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
72 VDE	Transparent	500		10	2.000	**2055 92 9**

PA Polyamide /100 pc.

Brass terminals, steel screws, galvanised and blue passivated, 12-pole, individual terminals detachable.
Captive upwards screw.
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 fine wire with wire end sleeve.
Maximum approved ambient temperature to EN 60998: –5 to +85 °C.

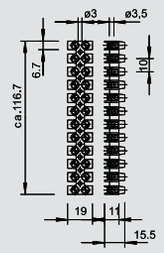


6 mm² series connectors, polyamide

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
74 VDE	Transparent	200		10	3.580	**2056 14 3**

PA Polyamide /100 pc.

Tested to EN 60998.
Brass terminals, steel screws, electrogalvanised and blue passivated, 12pole, individual terminals detachable.
Captive upwards screw.
Nominal cross-section 6 mm².
Nominal voltage 450 V.
Nominal current 32 A.
Max. attachment each side: 6 mm² single wire with wire end sleeve.
Maximum approved ambient temperature to EN 60998: –5 to +85 °C.

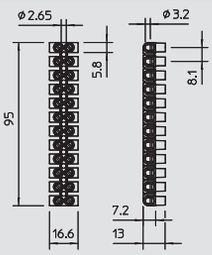


Series connectors, polyamide wire protection clamp

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
74 D	Transparent	200		10	3.680	**2056 17 8**

PA Polyamide /100 pc.

With wire protection clamp.
Tested to EN 60998.
Brass terminals, steel screws, galvanised and blue passivated, 12-pole, individual terminals detachable.
Captive upwards screw.
Nominal cross-section 4 mm².
Nominal voltage 450 V.
Nominal current 32 A.
Max. attachment each side: 4 mm² single-wire or 4 mm² fine-wire without wire end sleeve.
Maximum approved ambient temperature to EN 60998: –5 to +85 °C.



4 mm² series connectors, polypropylene

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
72 CE WS	White	500		10	1.800	**2056 07 0**
72 CE SW	Black	500		10	1.800	**2056 08 9**

PP Polypropylene /100 pc.

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 4 mm².
Nominal voltage 450 V.
Nominal current 32 A.
Max. attachment each side: 4 mm² single-wire or 4 mm² fine-wire without wire end sleeve.

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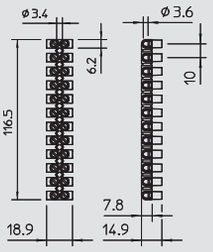
Screw terminals

6 mm² series connectors, polypropylene

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
74 CE WS	White	200		10	2.600	**2056 22 4**
74 CE SW	Black	200		10	2.600	**2056 23 2**

PP Polypropylene /100 pc.

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 6 mm².
Nominal voltage 450 V.
Nominal current 41 A.
Max. attachment each side: 6 mm² single-wire or 4 mm² fine-wire without wire end sleeve.

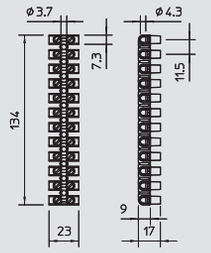


10 mm² series connectors, polypropylene

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
76 CE WS	White	100		10	4.300	**2056 37 2**
76 CE SW	Black	100		10	4.300	**2056 38 0**

PP Polypropylene /100 pc.

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 fine-wire without wire end sleeve.

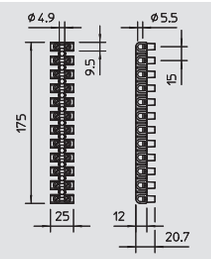


16 mm² series connectors, polypropylene

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
78 CE WS	White	100		10	7.500	**2056 55 0**
78 CE SW	Black	100		10	7.500	**2056 56 9**

PP Polypropylene /100 pc.

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 multi-wire or 10 mm² fine-wire without wire end sleeve.

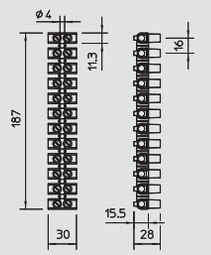


25 mm² series connectors, polypropylene

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
79 CE WS	White	50		10	11.200	**2056 57 7**
79 CE SW	Black	50		10	11.200	**2056 58 5**

PP Polypropylene /100 pc.

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 without wire end sleeve.



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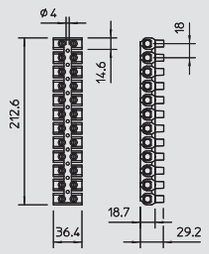

35 mm² series connectors, polypropylene

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
80 CE WS	White	50		10	17.400	**2056 59 0**
80 CE SW	Black	50		10	17.400	**2056 59 3**

PP Polypropylene /100 pc.

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 1000 V.
Nominal current 125 A.
Max. attachment each side: 35 mm² multi-wire or 25 mm² fine-wire without wire end sleeve.

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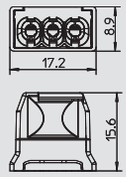
Screwless terminals

Screwless terminals, 3-pole

Type	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
61 325 LGR	Light grey	2000	100	0.140	**2054 48 5**

PA Polyamide /100 pc.

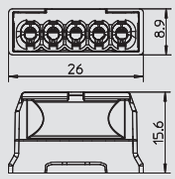


Screwless terminal to connect single-strand cables.
Nominal cross-section:
3 x 0.5 mm² to 2.5 mm² single-wire cable.
3 x 1.5 mm² to 2.5 mm² rigid, multi-wire cable.
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).

Screwless terminals, 5-pole

Type	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
61 525 LGR	Light grey	2000	100	0.300	**2054 50 7**

PA Polyamide /100 pc.

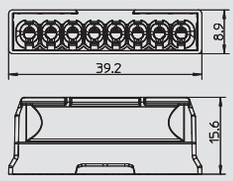


Screwless terminal to connect single-strand cables.
Nominal cross-section:
5 x 0.5 mm² to 2.5 mm² single-wire cable
5 x 1.5 mm² to 2.5 mm² rigid, multi-wire cable
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).

Screwless terminals, 8-pole

Type	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
61 825 LGR	Light grey	1000	50	0.490	**2054 52 3**

PA Polyamide /100 pc.

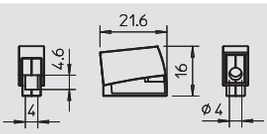


Screwless terminal to connect single-strand cables.
Nominal cross-section:
8 x 0.5 mm² to 2.5 mm² single-wire cable.
8 x 1.5 mm² to 2.5 mm² rigid, multi-wire cable.
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).

Luminaire connection terminal with 2 connections

Type	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
61 1/1 25 GR	Grey	2000	100	0.200	**2054 75 0**

PA Polyamide /100 pc.

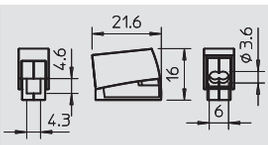


Luminaire connection terminal for toolless connection of remote cables. Tested according to EN 60998
Screwless terminal to connect single-strand cables to multi-wire cables.
Nominal cross-section:
0.5 - 2.5
Rated voltage 450 V
Rated current 24 A
Stripping length: 8–9 mm
Inspection opening: Phase tester and testing pin (max. Ø 2 mm)
Max. approved ambient temperature according to EN 60998: max. 110°C

Luminaire connection terminal with 3 connections

Type	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
61 2/1 25 WS	White	2000	100	0.230	**2054 75 5**

PA Polyamide /100 pc.



Luminaire connection terminal for toolless connection of remote cables. Tested according to EN 60998
Screwless terminal to connect single-strand cables to multi-wire cables.
Nominal cross-section:
0.5 - 2.5
Rated voltage 450 V
Rated current 24 A
Stripping length: 8–9 mm
Inspection opening: Phase tester and testing pin (max. Ø 2 mm)
Max. approved ambient temperature according to EN 60998: max. 110°C

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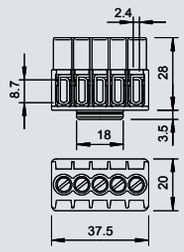
Always indicate the item number when ordering.



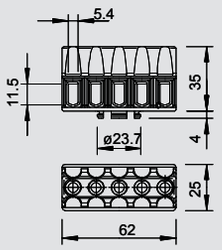
Terminal strip, junction box, T series

2,5-4 mm² - 5 - VDE

Type	Colour	No. of screwless terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL-T 01-04	Light grey	5	1-4	400	100		10	2.100	**2016 18 0**

PA Polyamide /100 pc.

Steel terminal block and bolts, galvanised and transparently passivated, nominal 1 - 4 mm², nominal voltage 400 V, 5-pole, with terminal sockets, Max. connectable cross-sections per terminal max. 4 x 2.5 mm², 5 x 1.5 mm² or 6 x 1 mm² .



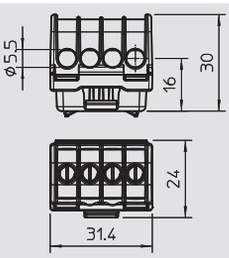
Terminal strip, junction box, T series

4-6 mm² - 5 - VDE

Type	Colour	No. of screwless terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL-T 02-06	Light grey	5	1.5-6	400	120		10	4.380	**2016 18 5**

PA Polyamide /100 pc.

Steel terminal block and bolts, galvanised and transparently passivated, nominal 1,5 - 6 mm², nominal voltage 400 V, 5-pole, with terminal sockets, Max. connectable cross-sections per terminal: 3 x 6 mm², 4 x 4 mm² or 6 x 2.5 mm² .



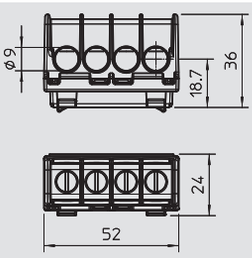
Terminal strip, junction box, T series

16 mm² VDE

Type	Colour	No. of screwless terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL-T 06-16	Light grey	4	6-16	400	120		10	–	**2016 19 0**

PA Polyamide /100 pc.

Brass terminals, 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 max. 4 x 16 mm², 4 x 10 mm², 8x6 mm² or 12 x 4 mm².



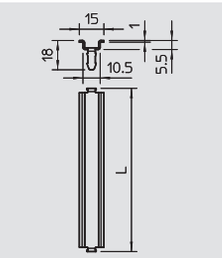
Terminal strip, junction box, T series

35 mm² VDE

Type	Colour	No. of screwless terminals	Nominal cross section mm²	Nominal voltage V	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KL-T 16-35	Light grey	4	16-35	400	120		10	–	**2016 19 5**

PA Polyamide /100 pc.

Brass terminals, steel screws, electrogalvanised and transparently passivated, nominal cross-section 16 - 35 mm², nominal voltage 400 V, 1-pole, with terminal sockets, Max. connectable conductors per terminal max. 4 x 35 mm², 4 x 25 mm², 8x16 mm² or 12 x 10 mm².



Hat profile rail, junction box T series

Type	Version	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
46277 T160 Q GTP	For T 160 lengthwise + T 100 crosswise	99		10	–	**1115 27 0**
46277 T250 Q GTP	For T 250 lengthwise + T 160 crosswise	139		10	–	**1115 27 4**
46277 T250 L GTP	For T 250 lengthwise	189		10	–	**1115 27 8**
46277 T350 Q GTP	For T 350 crosswise	161		10	–	**1115 28 2**
46277 T350 L GTP	For T 350 lengthwise	168		10	–	**1115 28 6**

St Steel GTP Electrogalvanised, transparently passivated /100 pc.

Hat profile rail 15 x 5 mm to DIN EN 60715 (formerly DIN EN 50045).

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Cable fastening systems, plastic

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		Multiple sealing insert Reducing seal insert Dust protection plate	222 222 222
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Always indicate the item number when ordering.

Cable gland, metric thread

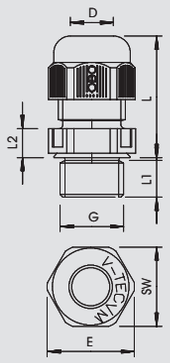
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM12 SGR	M12 x 1,5	Silver grey	500		50	0.320	**2022 84 3**
V-TEC VM16 SGR	M16 x 1,5	Silver grey	500		50	0.640	**2022 84 5**
V-TEC VM20 SGR	M20 x 1,5	Silver grey	600		50	0.860	**2022 84 7**
V-TEC VM25 SGR	M25 x 1,5	Silver grey	300		25	1.360	**2022 84 9**
V-TEC VM32 SGR	M32 x 1,5	Silver grey	240		20	2.230	**2022 85 1**
V-TEC VM40 SGR	M40 x 1,5	Silver grey	120		10	3.470	**2022 85 3**
V-TEC VM50 SGR	M50 x 1,5	Silver grey	60		5	5.470	**2022 85 5**
V-TEC VM63 SGR	M63 x 1,5	Silver grey	60		5	8.310	**2022 85 7**
V-TEC VM12 LGR	M12 x 1,5	Light grey	500		50	0.320	**2022 86 2**
V-TEC VM16 LGR	M16 x 1,5	Light grey	500		50	0.640	**2022 86 4**
V-TEC VM20 LGR	M20 x 1,5	Light grey	600		50	0.860	**2022 86 6**
V-TEC VM25 LGR	M25 x 1,5	Light grey	300		25	1.360	**2022 86 8**
V-TEC VM32 LGR	M32 x 1,5	Light grey	240		20	2.230	**2022 87 0**
V-TEC VM40 LGR	M40 x 1,5	Light grey	120		10	3.470	**2022 87 2**
V-TEC VM50 LGR	M50 x 1,5	Light grey	60		5	5.470	**2022 87 4**
V-TEC VM63 LGR	M63 x 1,5	Light grey	60		5	8.310	**2022 87 6**
V-TEC VM12 SW	M12 x 1,5	Black	500		50	0.320	**2022 88 3**
V-TEC VM16 SW	M16 x 1,5	Black	500		50	0.640	**2022 88 5**
V-TEC VM20 SW	M20 x 1,5	Black	600		50	0.860	**2022 88 7**
V-TEC VM25 SW	M25 x 1,5	Black	300		25	1.360	**2022 88 9**
V-TEC VM32 SW	M32 x 1,5	Black	240		20	2.230	**2022 89 1**
V-TEC VM40 SW	M40 x 1,5	Black	120		10	3.470	**2022 89 3**
V-TEC VM50 SW	M50 x 1,5	Black	60		5	5.470	**2022 89 5**
V-TEC VM63 SW	M63 x 1,5	Black	60		5	8.310	**2022 89 7**

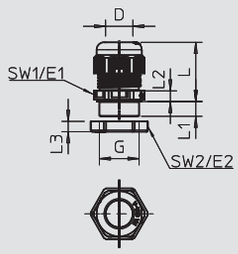
PA Polyamide /100 pc.

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 IP 68 is achieved. Strain relief and tightness have been tested to DIN EN 50262. The connecting threads of the cable glands are metric or Pg and are therefore suitable for universal use. Once screwed in place the fitting is there for ever, 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.

Important dimensions, V-TEC cable gland

G	D mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm
M12 x 1.5	3.5 - 7	15	16.5	18.5	23.5	8	5
M16 x 1.5	4.5 - 10	20	22	21.5	29	8	5
M20 x 1.5	6 - 13	24	27	23.5	30.5	10	6
M25 x 1.5	9 - 17	29	32	26	35	10	6
M32 x 1.5	15 - 21	36	41	29	40	11	6
M40 x 1.5	16 - 28	44	50	36	46	11	7
M50 x 1.5	23 - 35	54	60	43	52	12	8
M63 x 1.5	36 - 48	67	75	48	60	12	9





Cable gland, metric thread, set with locknut

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM12+ LGR	M12 x 1,5	Light grey	600		50	0.340	**2022 76 2**
V-TEC VM16+ LGR	M16 x 1,5	Light grey	500		50	0.800	**2022 76 4**
V-TEC VM20+ LGR	M20 x 1,5	Light grey	600		50	1.110	**2022 76 6**
V-TEC VM25+ LGR	M25 x 1,5	Light grey	300		25	1.710	**2022 76 8**
V-TEC VM32+ LGR	M32 x 1,5	Light grey	240		20	2.840	**2022 77 0**
V-TEC VM40+ LGR	M40 x 1,5	Light grey	120		10	5.150	**2022 77 2**
V-TEC VM50+ LGR	M50 x 1,5	Light grey	60		5	6.360	**2022 77 4**
V-TEC VM63+ LGR	M63 x 1,5	Light grey	60		5	10.140	**2022 77 6**

PA Polyamide /100 pc.

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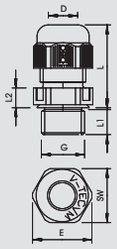
Applications: from private housing with junction boxes up to industrial applications in the distributor cabinet.

Important dimensions, V-TEC cable gland

G	D mm	SW1 mm	E1 mm	SW2 mm	E2 mm	L min. mm	L max. mm	L2 mm	L2 mm	L3 mm
M12 x 1.5	3.5 - 7	15	16.5	17	19	18.5	23.5	8	5	5
M16 x 1.5	4.5 - 10	20	22	22	25	21.5	23.5	8	5	5
M20 x 1.5	6 - 13	24	27	24	27	23.5	30.5	9	5	6
M25 x 1.5	9 - 17	29	32	32	36	26	35	10	6	6.5
M32 x 1.5	15 - 21	36	41	41	46	29	40	11	6	7
M40 x 1.5	16 - 28	44	50	50	56	36	46	11	7	7.5
M50 x 1.5	23 - 35	54	60	60	68	43	52	12	8	8
M63 x 1.5	36 - 48	67	75	75	83	48	60	12	9	8.5



Cable gland, metric thread, with reducing seal insert

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM12RD LGR	M12 x 1,5	Light grey	500		50	0.320	**2023 00 8**
V-TEC VM16RD LGR	M16 x 1,5	Light grey	500		50	0.640	**2023 01 0**
V-TEC VM20RD LGR	M20 x 1,5	Light grey	600		50	0.860	**2023 01 2**
V-TEC VM25RD LGR	M25 x 1,5	Light grey	300		25	1.340	**2023 01 4**
V-TEC VM32RD LGR	M32 x 1,5	Light grey	240		20	2.230	**2023 01 6**
V-TEC VM40RD LGR	M40 x 1,5	Light grey	120		10	3.470	**2023 01 8**
V-TEC VM50RD LGR	M50 x 1,5	Light grey	60		5	5.470	**2023 02 0**
V-TEC VM63RD LGR	M63 x 1,5	Light grey	60		5	8.310	**2023 02 2**

PA Polyamide /100 pc.

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Applications: from private housing with junction boxes up to industrial applications in the distributor cabinet.

Important dimensions, V-TEC cable gland

G	D mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm
M12 x 1.5	2-5	15	16.5	18.5	23.5	8	5
M16 x 1.5	2.5-7	20	22	21.5	23.5	8	5
M20 x 1.5	4-9	24	27	23.5	30.5	9	5
M25 x 1.5	6-13	29	32	26	35	10	6
M32 x 1.5	11-16	36	41	29	40	11	6
M40 x 1.5	12-23	44	50	36	46	11	7
M50 x 1.5	18-29	54	60	43	52	12	8
M63 x 1.5	36 - 48	67	75	48	60	12	9

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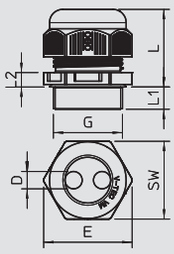
Cable gland, metric thread with multi-way seal insert

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM20 2x4	M20 x 1,5	Light grey	600		50	0.860	**2022 11 0**
V-TEC VM20 4x5	M20 x 1,5	Light grey	600		50	0.860	**2022 11 2**
V-TEC VM20 2x6	M20 x 1,5	Light grey	600		50	0.860	**2022 11 4**
V-TEC VM25 5x4	M25 x 1,5	Light grey	300		25	1.360	**2022 12 0**
V-TEC VM25 3x6	M25 x 1,5	Light grey	300		25	1.360	**2022 12 2**
V-TEC VM25 2x6	M25 x 1,5	Light grey	300		25	1.360	**2022 12 4**
V-TEC VM25 3x7	M25 x 1,5	Light grey	300		25	1.360	**2022 12 6**
V-TEC VM25 2x8	M25 x 1,5	Light grey	300		25	1.360	**2022 12 8**
V-TEC VM32 2x8	M32 x 1,5	Light grey	240		20	2.240	**2022 13 6**
V-TEC VM32 4x8	M32 x 1,5	Light grey	240		20	2.240	**2022 13 8**

PA Polyamide /100 pc.



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 IP 68 is achieved. Strain relief and tightness have been tested to DIN EN 50262. The connecting threads of the cable glands are metric or Pg and are therefore suitable for universal use. Once screwed in place the fitting is there for ever, 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.

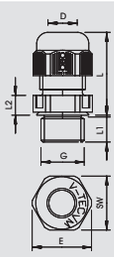
Important dimensions, V-TEC cable gland

G	Drill holes Quantity	D mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm
M20 x 1.5	2	4	24	27	23.5	30.5	10	6
M20 x 1.5	4	5	24	27	23.5	30.5	10	6
M25 x 1.5	5	4	29	32	26	35	10	6
M25 x 1.5	3	6	29	32	26	35	10	6
M25 x 1.5	2	6	29	32	26	35	10	6
M25 x 1.5	3	7	29	32	26	35	10	6
M25 x 1.5	2	8	29	32	26	35	10	6
M32 x 1.5	2	8	36	41	29	40	11	6
M32 x 1.5	4	8	36	41	29	40	11	6

Cable gland, metric thread, UV-resistant

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM12UV LGR	M12 x 1,5	Light grey	500		50	0.320	**2022 90 0**
V-TEC VM16UV LGR	M16 x 1,5	Light grey	500		50	0.590	**2022 90 1**
V-TEC VM20UV LGR	M20 x 1,5	Light grey	600		50	0.590	**2022 90 2**
V-TEC VM25UV LGR	M25 x 1,5	Light grey	300		25	1.360	**2022 90 3**
V-TEC VM32UV LGR	M32 x 1,5	Light grey	240		20	2.240	**2022 90 4**
V-TEC VM40UV LGR	M40 x 1,5	Light grey	120		10	3.500	**2022 90 5**
V-TEC VM50UV LGR	M50 x 1,5	Light grey	60		5	5.480	**2022 90 6**
V-TEC VM63UV LGR	M63 x 1,5	Light grey	60		5	8.330	**2022 90 7**

PA Polyamide /100 pc.



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Applications: from private housing with junction boxes up to industrial applications in the distributor cabinet.

Important dimensions, V-TEC cable gland

G	D mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm	L3 mm
M12 x 1.5	3.5 - 7	15	16.5	18.5	23.5	8	5	
M16 x 1.5	4.5 - 10	20	22	21.5	23.5	8	5	
M20 x 1.5	6 - 13	24	27	23.5	30.5	9	5	
M25 x 1.5	9 - 17	29	32	26	35	10	6	
M32 x 1.5	15 - 21	36	41	29	40	11	6	
M40 x 1.5	16 - 28	44	50	36	46	11	7	
M63 x 1.5	36 - 48	67	75	48	60	12	9	

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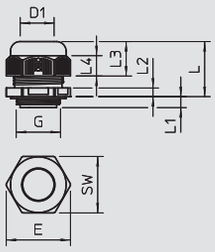


Cable gland, short metric thread

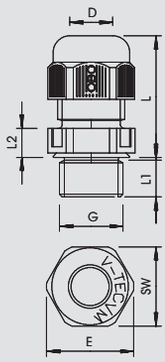
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC M KA M20	M20x1,5	Light grey	600		50	0.970	**2024 82 9**

PA Polyamide /100 pc.

With short metric connection thread to IEC 423, particularly suitable for junction boxes with metric connection thread. Robust cable gland with cap nut design for high tightness requirements. Strain relief, torsion protection and tightness over the entire clamping range. Sealing ring made of polychloroprene/acrylnitrilbutadiene rubber. Moulded shaped sealing lip on intermediate support, thus no connection thread sealing ring required, VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar 1 h. Temperature range –20 °C to +65 °C.

Important dimensions, V-TEC cable gland

G	D	SW	E	L min.	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm
M20 x 1.5	6–13	24	27	23	30	7	5	18



Cable gland, long metric thread

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM L12 SGR	M12 x 1,5	Silver grey	500		50	0.390	**2022 92 1**
V-TEC VM L16 SGR	M16 x 1,5	Silver grey	500		50	0.730	**2022 92 4**
V-TEC VM L20 SGR	M20 x 1,5	Silver grey	600		50	0.880	**2022 92 6**
V-TEC VM L25 SGR	M25 x 1,5	Silver grey	300		25	1.600	**2022 92 8**
V-TEC VM L32 SGR	M32 x 1,5	Silver grey	240		20	2.050	**2022 93 0**
V-TEC VM L40 SGR	M40x1,5	Silver grey	120		10	3.170	**2022 93 3**
V-TEC VM L50 SGR	M50x1,5	Silver grey	60		5	5.010	**2022 93 5**
V-TEC VM L63 SGR	M63x1,5	Silver grey	60		5	7.390	**2022 93 7**
V-TEC VM L12 LGR	M12x1,5	Light grey	500		50	0.390	**2022 94 3**
V-TEC VM L16 LGR	M16x1,5	Light grey	500		50	0.730	**2022 94 5**
V-TEC VM L20 LGR	M20x1,5	Light grey	600		50	0.880	**2022 94 7**
V-TEC VM L25 LGR	M25x1,5	Light grey	300		25	1.600	**2022 94 9**
V-TEC VM L32 LGR	M32x1,5	Light grey	240		20	2.050	**2022 95 1**
V-TEC VM L40 LGR	M40x1,5	Light grey	120		10	3.170	**2022 95 3**
V-TEC VM L50 LGR	M50x1,5	Light grey	60		5	5.010	**2022 95 5**
V-TEC VM L63 LGR	M63x1,5	Light grey	60		5	7.390	**2022 95 7**
V-TEC VM L12 SW	M12x1,5	Black	500		50	0.390	**2022 96 4**
V-TEC VM L16 SW	M16x1,5	Black	500		50	0.730	**2022 96 6**
V-TEC VM L20 SW	M20x1,5	Black	600		50	0.880	**2022 96 8**
V-TEC VM L25 SW	M25x1,5	Black	300		25	1.600	**2022 97 0**
V-TEC VM L32 SW	M32x1,5	Black	240		20	2.050	**2022 97 2**
V-TEC VM L40 SW	M40x1,5	Black	120		10	3.170	**2022 97 4**
V-TEC VM L50 SW	M50x1,5	Black	60		5	5.010	**2022 97 6**
V-TEC VM L63 SW	M63x1,5	Black	60		5	7.390	**2022 97 8**

PA Polyamide /100 pc.

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 IP 68 is achieved. Strain relief and tightness have been tested to DIN EN 50262. The connecting threads of the cable glands are metric or Pg and are therefore suitable for universal use. Once screwed in place the fitting is there for ever, 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.

Important dimensions, V-TEC cable gland

G	D	SW	E	L min.	L max.	L1	L2
	mm	mm	mm	mm	mm	mm	mm
M12 x 1.5	3.5 - 7	15	16.5	17.5	24	15	5
M16 x 1.5	4.5 - 10	20	22	20.5	29.5	15	5
M20 x 1.5	6 - 13	24	27	22.5	32.5	15	5
M25 x 1.5	9 - 17	29	32	25.5	36	15	6
M32 x 1.5	15 - 21	36	41	28	40	15	6
M40 x 1.5	16 - 28	44	50	32	46	18	7
M50 x 1.5	23 - 35	54	60	37.5	54.3	18	8
M63 x 1.5	36 - 48	68	75	41.5	60.3	18	9

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Cap nut cable gland

Cable gland, metric thread, extra long

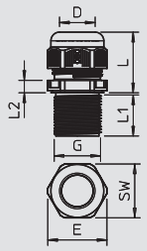
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM LL16 SW	M16x1,5	Black	500		50	0.800	**2022 98 5**
V-TEC VM LL20 SW	M20x1,5	Black	600		50	1.000	**2022 98 7**
V-TEC VM LL25 SW	M25x1,5	Black	300		25	1.700	**2022 98 9**
V-TEC VM LL32 SW	M32x1,5	Black	240		20	2.200	**2022 99 1**
V-TEC VM LL40 SW	M40x1,5	Black	120		10	2.200	**2022 99 3**
V-TEC VM LL50 SW	M50x1,5	Black	60		5	5.500	**2022 99 5**
V-TEC VM LL63 SW	M63x1,5	Black	60		5	7.500	**2022 99 7**

PA Polyamide /100 pc.

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 IP 68 is achieved. Strain relief and tightness have been tested to DIN EN 50262. The connecting threads of the cable glands are metric or Pg and are therefore suitable for universal use. Once screwed in place the fitting is there for ever, 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.

Important dimensions, V-TEC cable gland

G	D mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm
M16 x 1.5	4.5 - 10	20	22	20.5	29.5	15	15.5
M20 x 1.5	6 - 13	24	27	22.5	32.5	15	17.5
M25 x 1.5	9 - 17	29	32	25.5	36	15	19.5
M32 x 1.5	15 - 21	36	41	28	40	15	22
M50 x 1.5	23 - 35	54	60	37.5	54.3	18	29.5
M63 x 1.5	36 - 48	68	75	41.5	60.3	18	32.5



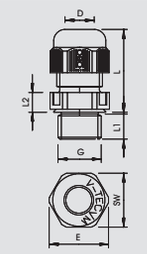
Cable gland, metric thread, for function maintenance

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM20 OR	M20 x 1,5	Pastel orange	600		50	0.860	**7205 59 4**
V-TEC VM25 OR	M25 x 1,5	Pastel orange	300		25	1.360	**7205 59 7**
V-TEC VM32 OR	M32 x 1,5	Pastel orange	240		20	2.240	**7205 60 0**
V-TEC VM40 OR	M40 x 1,5	Pastel orange	120		10	3.500	**7205 60 3**

PA Polyamide /100 pc.

Robust cap nut cable gland with metric connecting thread to IEC 423. For high tightness requirements. Strain relief, wringing protection and tightness over the whole clamping area. Sealing ring made of polychloroprene/acrylnitrilbutadiene rubber. Moulded shaped sealing lip on intermediate support, no connection thread sealing ring required.
VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar for 1 hr.
For electrical function maintenance according to DIN 4102 Part 12 in connection with the junction boxes of the FireBox T series.

G	D mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm
M20 x 1.5	6 - 13	24	27	23.5	30.5	10	6
M25 x 1.5	9 - 17	29	32	26	35	10	6
M32 x 1.5	15 - 21	36	41	29	40	11	6
M40 x 1.5	16 - 28	44	50	36	46	11	7



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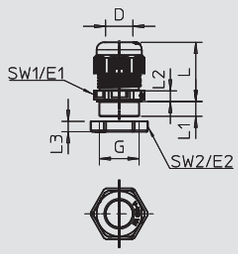

Cable gland, PG thread, set with locknut

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC PG7+ LGR	Pg 7	Light grey	600		50	0.500	**2024 65 5**
V-TEC PG9+ LGR	Pg 9	Light grey	500		50	0.800	**2024 65 7**
V-TEC PG11+ LGR	Pg 11	Light grey	500		50	1.070	**2024 65 9**
V-TEC PG13,5+LGR	Pg 13,5	Light grey	400		50	1.280	**2024 66 1**
V-TEC PG16+ LGR	Pg 16	Light grey	250		25	1.710	**2024 66 3**
V-TEC PG21+ LGR	Pg 21	Light grey	300		25	2.760	**2024 66 5**
V-TEC PG29+ LGR	Pg 29	Light grey	240		20	5.120	**2024 66 7**
V-TEC PG36+ LGR	Pg 36	Light grey	120		10	7.710	**2024 66 9**
V-TEC PG42+ LGR	Pg 42	Light grey	60		5	9.410	**2024 67 1**
V-TEC PG48+ LGR	Pg 48	Light grey	60		5	11.290	**2024 67 3**

PA Polyamide /100 pc.

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 IP 68 is achieved. Strain relief and tightness have been tested to DIN EN 50262. The connecting threads of the cable glands are metric or Pg and are therefore suitable for universal use. Once screwed in place the fitting is there for ever, 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.

Table column D1: sealing range to VDE 0619, in which no strain relief is required.

Important dimensions, V-TEC cable gland

G	D1 mm	D2 mm	SW1 mm	E1 mm	SW2 mm	E2 mm	L min. mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 7	2.5 - 6.5	3 - 6.5	15	16.5	19	21	18	23	8	5	5
Pg 9	2.5 - 8	3.5 - 8	19	21	22	24	21	27	8	5	5
Pg 11	3.5 - 10	4.5 - 10	22	25	24	26	22	29	8	5	5
Pg 13.5	5 - 12	6 - 12	24	27	27	29	23	30	9	5	6
Pg 16	7 - 14	7 - 14	27	30	30	33	25	33	10	6	6
Pg 21	9 - 18	12 - 18	33	37.5	36	39	28	38	11	6	7
Pg 29	14 - 25	17 - 25	42	47.5	46	50	32	43	11	7	7
Pg 36	18 - 32	20 - 32	53	60	60	66	39	54	13	8	8
Pg 42	24 - 38	26 - 38	60	68.5	65	73	42	57	13	9	8
Pg 48	30 - 44	30 - 44	65	74	70	78	42	58	14	9	8

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Cap nut cable gland

Cable gland, PG thread

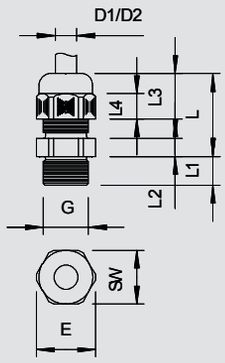
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC PG7 SGR	Pg 7	Silver grey	500		50	0.410	**2022 60 5**
V-TEC PG9 SGR	Pg 9	Silver grey	500		50	0.630	**2022 61 3**
V-TEC PG11 SGR	Pg 11	Silver grey	500		50	0.890	**2022 62 1**
V-TEC PG13.5 SGR	Pg 13,5	Silver grey	400		50	1.020	**2022 64 8**
V-TEC PG16 SGR	Pg 16	Silver grey	250		25	1.380	**2022 65 6**
V-TEC PG21 SGR	Pg 21	Silver grey	300		25	2.290	**2022 66 4**
V-TEC PG29 SGR	Pg 29	Silver grey	240		20	4.020	**2022 67 2**
V-TEC PG36 SGR	Pg 36	Silver grey	120		10	6.040	**2022 68 0**
V-TEC PG42 SGR	Pg 42	Silver grey	60		5	7.650	**2022 69 9**
V-TEC PG48 SGR	Pg 48	Silver grey	60		5	9.460	**2022 70 2**
V-TEC PG7 LGR	Pg 7	Light grey	500		50	0.410	**2024 70 5**
V-TEC PG9 LGR	Pg 9	Light grey	500		50	0.630	**2024 71 3**
V-TEC PG11 LGR	Pg 11	Light grey	500		50	0.890	**2024 72 1**
V-TEC PG13 LGR	Pg 13,5	Light grey	400		50	1.020	**2024 74 8**
V-TEC PG16 LGR	Pg 16	Light grey	250		25	1.380	**2024 75 6**
V-TEC PG21 LGR	Pg 21	Light grey	300		25	2.290	**2024 76 4**
V-TEC PG29 LGR	Pg 29	Light grey	240		20	4.020	**2024 77 2**
V-TEC PG36 LGR	Pg 36	Light grey	120		10	6.030	**2024 78 0**
V-TEC PG42 LGR	Pg 42	Light grey	60		5	7.650	**2024 79 9**
V-TEC PG48 LGR	Pg 48	Light grey	60		5	9.460	**2024 80 2**

PA Polyamide /100 pc.

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 IP 68 is achieved. Strain relief and tightness have been tested to DIN EN 50262. The connecting threads of the cable glands are metric or Pg and are therefore suitable for universal use. Once screwed in place the fitting is there for ever, 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.

Important dimensions, V-TEC cable gland

G	D1 mm	D2 mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 7	2.5 - 6.5	3 - 6.5	15	16.5	18	23	8	5	12.6
Pg 9	2.5 - 8	3.5 - 8	19	21	21	27	8	5	15.5
Pg 11	3.5 - 10	4.5 - 10	22	25	22	29	8	5	17
Pg 13.5	5 - 12	6 - 12	24	27	23	30	9	5	18
Pg 16	7 - 14	7 - 14	27	30	25	33	10	6	19
Pg 21	9 - 18	12 - 18	33	37.5	28	38	11	6	22
Pg 29	14 - 25	17 - 25	42	47.5	32	43	11	7	24.5
Pg 36	18 - 32	20 - 32	53	60	39	54	13	8	31
Pg 42	24 - 38	26 - 38	60	68.5	42	57	13	9	32.5
Pg 48	30 - 44	30 - 44	65	74	42	58	14	9	33



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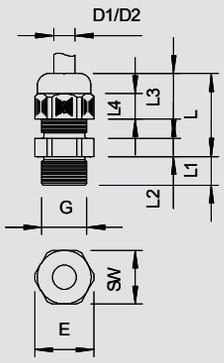


Cable gland, long PG thread

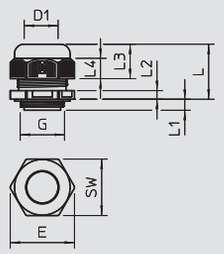
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC L PG7 SGR	Pg 7	Silver grey	500		50	0.410	**2024 17 9**
V-TEC L PG9 SGR	Pg 9	Silver grey	500		50	0.670	**2024 18 7**
V-TEC L PG11 SGR	Pg 11	Silver grey	500		50	0.930	**2024 19 5**
V-TEC L PG13 SGR	Pg 13,5	Silver grey	600		50	1.090	**2024 20 9**
V-TEC L PG16 SGR	Pg 16	Silver grey	250		25	1.490	**2024 21 7**
V-TEC L PG21 SGR	Pg 21	Silver grey	300		25	2.330	**2024 22 5**
V-TEC L PG29 SGR	Pg 29	Silver grey	240		20	3.860	**2024 23 3**
V-TEC L PG36 SGR	Pg 36	Silver grey	120		10	7.750	**2024 24 1**
V-TEC L PG7 LGR	Pg 7	Light grey	500		50	0.410	**2024 28 4**
V-TEC L PG9 LGR	Pg 9	Light grey	500		50	0.670	**2024 29 2**
V-TEC L PG11 LGR	Pg 11	Light grey	500		50	0.930	**2024 30 6**
V-TEC L PG13 LGR	Pg 13,5	Light grey	600		50	1.090	**2024 31 4**
V-TEC L PG16 LGR	Pg 16	Light grey	250		25	1.490	**2024 32 2**
V-TEC L PG21 LGR	Pg 21	Light grey	300		25	2.330	**2024 33 0**
V-TEC L PG29 LGR	Pg 29	Light grey	240		20	3.860	**2024 34 9**
V-TEC L PG36 LGR	Pg 36	Light grey	120		10	7.750	**2024 35 7**
V-TEC L PG42 LGR	Pg 42	Light grey	60		5	10.070	**2024 36 5**
V-TEC L PG48 LGR	Pg 48	Light grey	60		5	10.730	**2024 37 3**

PA Polyamide /100 pc.

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 IP 68 is achieved. Strain relief and tightness have been tested to DIN EN 50262. The connecting threads of the cable glands are metric or Pg and are therefore suitable for universal use. Once screwed in place the fitting is there for ever, 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.

Important dimensions, V-TEC cable gland

G	D1	D2	SW	E	L min.	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Pg 7	2.5 - 6.5	3 - 6.5	15	16.5	18	23	15	5	12.6
Pg 9	2.5 - 8	3.5 - 8	19	21	21	27	15	5	15.5
Pg 11	3.5 - 10	4.5 - 10	22	25	22	29	15	5	17
Pg 13.5	5 - 12	6 - 12	24	27	23	30	15	5	18
Pg 16	7 - 14	7 - 14	27	30	25	33	15	6	19
Pg 21	9 - 18	12 - 18	33	37.5	28	38	15	6	22
Pg 29	14 - 25	17 - 25	42	47.5	32	43	15	7	24.5
Pg 36	18 - 32	20 - 32	53	60	39	54	18	8	31



Cable gland, short PG thread

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC KA PG16LGR	PG 16	Light grey	250		25	1.200	**2024 86 1**

PA Polyamide /100 pc.

With short metric connection thread to IEC 423, particularly suitable for junction boxes with metric connection thread. Robust cable gland with cap nut design for high tightness requirements. Strain relief, torsion protection and tightness over the entire clamping range. Sealing ring made of polychloroprene/acrylnitrilbutadiene rubber. Moulded shaped sealing lip on intermediate support, thus no connection thread sealing ring required, VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar 1 h. Temperature range -20 °C to +65 °C.

Important dimensions, V-TEC cable gland

G	D	SW	E	L min.	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm
Pg16	7–14	27	30	25	33	7	6	18

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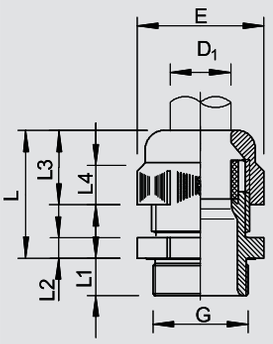
Cap nut cable gland

Cable gland, EX area, metric thread

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
VTEC EX M12 SW	M12 x 1,5	Black	600		50	0.360	**2050 30 7**
VTEC EX M16 SW	M16 x 1,5	Black	500		50	0.630	**2050 31 5**
VTEC EX M20 SW	M20 x 1,5	Black	400		50	1.000	**2050 32 3**
VTEC EX M25 SW	M25 x 1,5	Black	300		25	2.350	**2050 33 1**
VTEC EX M32 SW	M32 x 1,5	Black	240		20	3.900	**2050 35 8**
VTEC EX M40 SW	M40 x 1,5	Black	120		10	7.500	**2050 36 6**
VTEC EX M50 SW	M50 x 1,5	Black	60		5	9.200	**2050 37 4**
VTEC EX M63 SW	M63 x 1,5	Black	60		5	9.460	**2050 38 2**

PA Polyamide /100 pc.



Cable gland with EG design type approval certificate for products and protection systems for use in accordance with the regulations in explosion-hazard area. Directive 94/9/EC
EC design type approval certificate number: PTB 99 ATEX 3112X and ... 3113X.
With metric connecting thread to IEC 423.
Robust cap-nut cable gland with large sealing area, strain relief and torsion protection for high sealing requirements.
Sealing ring of chloroprene/nitrile rubber, moulded sealing, so no connection thread sealing ring needed. Tested to VDE standards
Protection IP 68 at 5 bar.

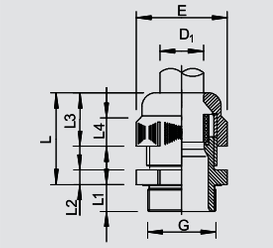
Important dimensions, V-TEC cable gland

G	D1 mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm	L3 mm
M12 x 1.5	3.5 - 6.5	15	16.5	18	23	8	5	12.6
M16 x 1.5	5 - 8	19	21	21	27	8	5	15.5
M20 x 1.5	7 - 12	24	27	23	30	9	5	18
M25 x 1.5	12 - 18	33	37.5	28	38	11	6	22
M32 x 1.5	17 - 25	42	47.5	32	43	11	7	24.5
M40 x 1.5	21 - 32	53	60	39	54	13	8	31
M50 x 1.5	24 - 37	60	68.5	42	57	13	9	32.5
M63 x 1.5	30 - 44	65	74	42	58	14	9	33

Cable gland, EX area, PG thread

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
VTEC EX PG7 SW	Pg 7	Black	600		50	0.410	**2050 00 5**
VTEC EX PG9 SW	Pg 9	Black	500		50	0.630	**2050 01 3**
VTEC EX PG11 SW	Pg 11	Black	500		50	0.890	**2050 02 1**
VTEC EX PG13.5SW	Pg 13,5	Black	400		50	1.020	**2050 04 8**
VTEC EX PG16 SW	Pg 16	Black	250		25	1.380	**2050 05 6**
VTEC EX PG21 SW	Pg 21	Black	300		25	2.290	**2050 06 4**
VTEC EX PG29 SW	Pg 29	Black	240		20	4.020	**2050 07 2**
VTEC EX PG36 SW	Pg 36	Black	120		10	6.030	**2050 08 0**
VTEC EX PG42 SW	Pg 42	Black	60		5	7.650	**2050 09 9**
VTEC EX PG48 SW	Pg 48	Black	60		5	9.460	**2050 10 2**

PA Polyamide /100 pc.



Cable gland with EG design type approval certificate for products and protection systems for use in accordance with the regulations in explosion-hazard area. Directive 94/9/EC.
EC design type approval certificate number: PTB 99 ATEX 3112X and ... 3113X.
With PG connection thread according to IEC 423.
Robust cap-nut cable gland with large sealing area, as well as strain relief and torsion protection for high sealing demands.
Sealing ring of chloroprene/nitrile rubber, moulded sealing, so no connection thread sealing ring needed, VDE-tested.
Protection rating IP 68 at 5 bar.

Important dimensions, V-TEC cable gland

G	D1 mm	SW mm	E mm	L min. mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 7	3.5 - 6.5	15	16.5	18	23	8	5	12.6
Pg 9	5 - 8	19	21	21	27	8	5	17
Pg 11	4.5 - 10	22	25	22	29	8	5	17
Pg 13.5	6.5 - 12	24	27	23	30	9	5	18
Pg 16	7 - 14	27	30	25	33	10	6	19
Pg 21	12 - 18	33	37.5	28	38	11	6	22
Pg 29	17 - 25	42	47.5	32	43	11	7	24.5
Pg 36	21 - 32	53	60	39	54	13	8	31
Pg 42	24 - 38	60	68.5	42	57	13	9	32.5
Pg 48	30 - 44	65	74	42	58	14	9	33

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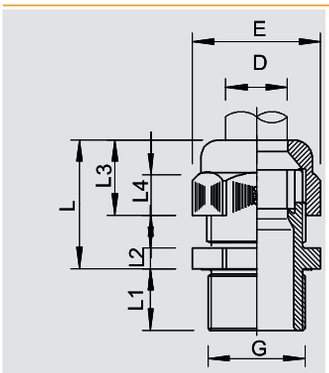


Cable gland, EX area, long PG thread

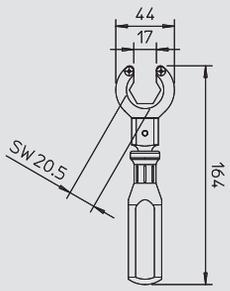
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
VTEC EXL PG9 SW	Pg 9	Black	500		50	0.670	**2050 14 5**
VTEC EXL PG11 SW	Pg 11	Black	500		50	0.930	**2050 15 3**
VTEC EXL PG13 SW	Pg 13,5	Black	400		50	1.090	**2050 16 1**
VTEC EXL PG16 SW	Pg 16	Black	250		25	1.490	**2050 18 8**
VTEC EXL PG21 SW	Pg 21	Black	300		25	2.330	**2050 19 6**

PA Polyamide /100 pc.

Cable gland with EG design type approval certificate for products and protection systems for use in accordance with the regulations in explosion-hazard area.
Directive 94/9/EC EC design type approval certificate number: PTB 99 ATEX 3112X and ... 3113X.
Robust cap-nut cable gland with large sealing area, as well as strain relief and torsion protection for high sealing demands.
Sealing ring of chloroprene/nitrile rubber,
moulded sealing, so no connecting sealing ring needed. Tested to VDE standards Protection IP 68 at 5 bar.

Important dimensions, V-TEC cable gland

G	D1	SW	E	L min.	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm
Pg 9	5 - 8	19	21	21	27	15	5	15.5
Pg 11	4.5 - 10	22	25	22	29	15	5	17
Pg 13.5	6.5 - 12	24	27	23	30	15	5	18
Pg 16	7 - 14	27	30	25	33	15	6	19
Pg 21	12 - 18	33	37.5	28	38	15	6	22

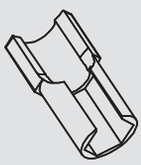


Ground ratchet

Type		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC RA		1	11.000	**3010 20 1**

/pc.

Professional cable gland ratchet, including grip, also to tighten and slacken previously mounted cable glands. The special principle gives this system time-saving and slip-free tightening, without annoying removal and re-gripping during screwing. Even cable glands, which are mounted very closely to each other and may be in the second or third row, can be reached without any problems. If necessary, the supplied grip can be replaced with an appropriate standard torque wrench.
Load capacity to max. 20 Nm.

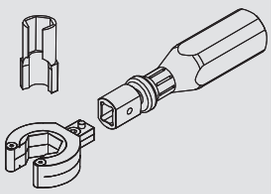


Socket spanner attachment

Type	Size	SW mm		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC ST15	M12	15		1	3.500	**3010 23 6**
V-TEC ST20	M16	20		1	3.700	**3010 24 4**
V-TEC ST24	M20	24		1	6.600	**3010 25 2**
V-TEC ST29	M25	29		1	8.500	**3010 26 0**

/pc.

Socket spanner attachment opened at the side with side for ground ratchet, V-TEC GR.

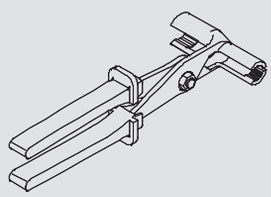


Ratchet set

Type	Accessories		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC RA SET	1 ground ratchet 1 grip for ground ratchet 4 socket spanner attachments		1	71.600	**3010 27 5**

/pc.

Set consisting of a ground ratchet, type V-TEC RA, a grip for ground ratchet, type V-TEC GR, and four socket spanner attachments in sizes WAF 15, WAF 20, WAF 24 and WAF 29.



Special tongs for cable glands

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
186	25		1	47.000	**3010 10 4**

/pc.

Universal tool for easy tightening of all glands up to size PG 21 or M25 x 1.5, also usable with glands very close to one another.
Small opening PG 7–PG 11.
Large opening PG 13.5–PG 21.

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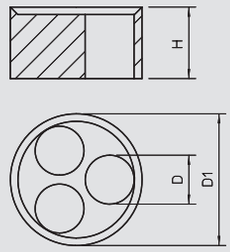
M

Multiple sealing insert, metric

Type	Size	Dimension D	Dimension H	Dimension D1	Number of drill holes	Shipping box		Pack.	Weight	Item No.
	mm	mm	mm	mm		pcs		pcs	kg/100 pcs.	
107 C VM 20 2x4	M20	4	8.1	15.1	2	750		50	0.130	**2029 67 2**
107 C VM 20 4x5	M20	5	8.1	15.1	4	750		50	0.080	**2029 67 5**
107 C VM 20 2x6	M20	6	8.1	15.1	2	750		50	0.100	**2029 67 7**
107 C VM 25 5x4	M25	4	10	19.8	5	500		50	0.180	**2029 67 9**
107 C VM 25 3x6	M25	6	10	19.8	3	500		50	0.210	**2029 68 2**
107 C VM 25 2x6	M25	6	10	19.8	2	500		50	0.260	**2029 68 5**
107 C VM 25 3x7	M25	7	10	19.8	3	500		50	0.180	**2029 68 8**
107 C VM 25 2x8	M25	8	10	19.8	2	500		50	0.200	**2029 69 0**
107 C VM 32 2x8	M32	8	13.4	25.1	2	500		25	0.530	**2029 69 3**
107 C VM 32 4x8	M32	8	13.4	25.1	4	500		25	0.400	**2029 69 6**

NBR-SBR Rubber mixture /100 pc.

Use to insert multiple thin cables in the V-TEC VM cable glands, is replaced with the simple sealing ring of the cable gland.



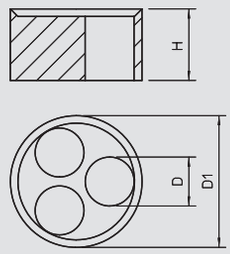
Pg

Multiple sealing insert, PG

Type	Dimension H	Dimension D1	Shipping box	Size	Number of drill holes	Dimension D		Pack.	Weight	Item No.
	mm	mm	pcs	mm		mm		pcs	kg/100 pcs.	
107 C V 16 5x4	9.5	17.5	750	Pg 16	5	4		50	0.210	**2029 61 8**
107 C V 16 3x5	9.5	17.5	750	Pg 16	3	5		50	0.210	**2029 62 6**
107 C V 16 2x6	9.5	17.5	750	Pg 16	2	6		50	0.210	**2029 63 4**
107 C V 16 3x6	9.5	17.5	750	Pg 16	3	6.5		50	0.160	**2029 64 2**
107 C V 21 3x7	12	23	500	Pg 21	3	7		25	0.450	**2029 65 0**
107 C V 21 2x8	12	23	500	Pg 21	2	8		25	0.340	**2029 66 9**

NBR-SBR Rubber mixture /100 pc.

Use to insert multiple thin cables in the V-TEC cable glands, is replaced with the simple sealing ring of the cable gland.



M

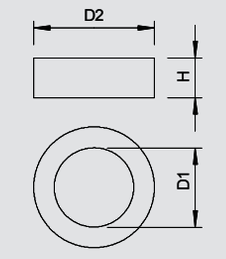
Reducing sealing insert, metric

Type	Size	Sealing range D	Dimension D1	Dimension D2	Dimension H	Shipping box		Pack.	Weight	Item No.
	mm	mm	mm	mm	mm	pcs		pcs	kg/100 pcs.	
107CR VM 12	M12	2-5	5	8.9	7.2	1300		50	0.050	**2029 56 0**
107CR VM 16	M16	2.5-7	7	12.7	8.1	1300		50	0.120	**2029 56 3**
107CR VM 20	M20	4-9	9	16	9.3	1200		50	0.210	**2029 56 6**
107CR VM 25	M25	6-13	13	20.7	10.5	1200		50	0.340	**2029 56 9**
107CR VM 32	M32	11-16	16	25.7	12.3	350		25	0.630	**2029 57 2**
107CR VM 40	M40	12-23	23	33.7	15	300		25	1.140	**2029 57 5**
107CR VM 50	M50	18-29	29	41.7	18.5	250		25	2.080	**2029 57 8**
107CR VM 63	M63	29-40	40	54.8	20.2	150		25	3.560	**2029 58 1**

NBR-SBR Rubber mixture /100 pc.

Reduces the sealing area D of the cable gland V-TEC VM and V-TEC VM L.

Important dimensions, sealing ring



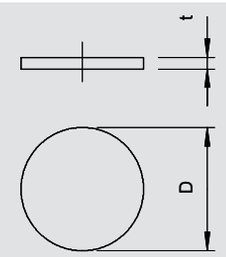
M

Dust protection plate, metric

Type	Size	Dimension D	Dimension t	Shipping box		Pack.	Weight	Item No.
	mm	mm	mm	pcs		pcs	kg/100 pcs.	
107 S VTEC M12	M12	12	1.5	12000		100	0.000	**2028 87 0**
107 S VTEC M16	M16	16	1.5	10000		100	0.000	**2028 87 3**
107 S VTEC M20	M20	20	1.5	12000		100	0.000	**2028 87 5**
107 S VTEC M25	M25	25	1.5	1500		100	0.010	**2028 87 7**
107 S VTEC M32	M32	32	1.5	1000		100	0.010	**2028 88 0**
107 S VTEC M40	M40	40	1.5	1200		100	0.020	**2028 88 3**
107 S VTEC M50	M50	50	1.5	1000		100	0.040	**2028 88 5**

ZPE Cellular polyethylene /100 pc.

Cellular polyethylene.
Small protective disc to protect the V-TEC VM and V-TEC VM 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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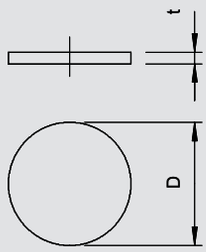


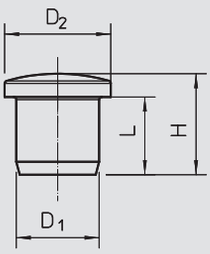
Dust protection plate, PG

Pg

Type	Shipping box pcs	Size mm	Dimension D mm	Dimension t mm	Pack. pcs	Weight kg/100 pcs.	Item No.
107 S VTEC PG7	12000	Pg 7	11	1.5	100	0.000	**2028 89 1**
107 S VTEC PG9	12000	Pg 9	14	1.5	100	0.000	**2028 90 5**
107 S VTEC PG11	12000	Pg 11	16.5	1.5	100	0.000	**2028 91 3**
107 S VTEC PG13	10000	Pg 13,5	18.5	2	100	0.000	**2028 92 1**
107 S VTEC PG16	8000	Pg 16	21	2	100	0.010	**2028 94 8**
107 S VTEC PG21	12000	Pg 21	26.5	2	100	0.010	**2028 95 6**
107 S VTEC PG29	1000	Pg 29	34.5	2	100	0.020	**2028 96 4**
107 S VTEC PG36	1200	Pg 36	44	3	100	0.040	**2028 97 2**
107 S VTEC PG42	1200	Pg 42	50	3	100	0.050	**2028 98 0**
107 S VTEC PG48	1200	Pg 48	56	3	100	0.060	**2028 99 9**

ZPE Cellular polyethylene /100 pc.

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.



Screw plug, metric and PG

Type	Size	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
107VS VM 5 PA	für M12 / Pg9	Light grey	600	50	0.040	**2029 51 1**
107VS VM 9 PA	für M16 / Pg13,5	Light grey	750	50	0.090	**2029 51 4**
107VS VM 12 PA	für M20 / Pg16	Light grey	500	50	0.130	**2029 51 7**
107VS VM 16 PA	für M25 / Pg21	Light grey	500	50	0.190	**2029 52 0**
107VS VM 20 PA	für M32 / Pg29	Light grey	300	25	0.250	**2029 52 3**

PA Polyamide /100 pc.

Screw plug for dust-proof and waterproof closure of installed but (as yet) unfilled V-TEC... Cable glands.

Important dimensions, screw plug

G	D1 mm	L mm	H mm	D2 mm
For M12	5.5	9	12.5	10
For M16	9.5	12	16	13.5
For M20	12	12	16.5	16.5
For M25	16	15	19.5	20.5
For M32	20	17	21.5	24.5

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Cone cable gland, polyamide

Cable gland, metric thread

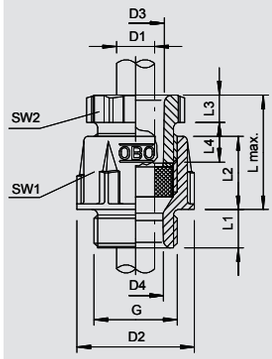
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 M 12 PA	M12 x 1,5	Light grey	1000		50	0.420	**2035 41 3**
106 M 16 PA	M16 x 1,5	Light grey	600		50	0.610	**2035 42 1**
106 M 20 PA	M20 x 1,5	Light grey	600		50	1.060	**2035 44 8**
106 M 25 PA	M25 x 1,5	Light grey	600		50	2.330	**2035 45 6**
106 M 32 PA	M32 x 1,5	Light grey	120		10	3.830	**2035 46 4**
106 M 40 PA	M40 x 1,5	Light grey	80		10	7.800	**2035 47 2**
106 M 50 PA	M50 x 1,5	Light grey	60		5	16.400	**2035 48 0**
106 M 63 PA	M63 x 1,5	Light grey	60		5	18.900	**2035 49 9**

PA Polyamide /100 pc.

Standard cable gland, shape A, to DIN 46320 with simple NR/SBR sealing ring and metric connection thread to IEC 423.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Important dimensions, cone cable gland

G	D1 mm	D2 mm	D3 mm	D4 mm	SW1 mm	SW2 mm	L1 mm	L2 mm	L3 mm	L4 mm	L max. mm
M12 x 1.5	3.5–6.5	16.5	7	7	15	13	8	13	5	8.5	23
M16 x 1.5	4.5–7	21.5	10.2	10	19	16	8	14	5	9	25
M20 x 1.5	9–13	25	11.3	13	24	21	8	15	5	10	27
M25 x 1.5	10–14	27	13.4	16	27	23	9	16	5	10.8	28
M32 x 1.5	18–25	30	15.8	26	42	40	10	16.5	6	12	30
M40 x 1.5	25–33	37.5	21.2	33	53	50	11	19	7	17	38
M50 x 1.5	30–38	47.5	30	40.5	60	55	11	20.5	8	18	42
M63 x 1.5	37–44	58	38	45.5	65	60	12	24	8	17	43



Cable gland, PG thread

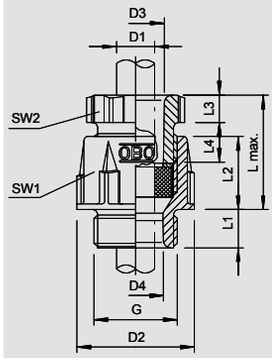
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 VDE PG9 PA	Pg 9	Light grey	600		50	0.610	**2036 51 7**
106 VDE PG11 PA	Pg 11	Light grey	500		50	0.870	**2036 53 3**
106 VDE PG13 PA	Pg 13,5	Light grey	600		50	1.060	**2036 57 6**
106 VDE PG16 PA	Pg 16	Light grey	600		50	1.370	**2036 59 2**
106 VDE PG21 PA	Pg 21	Light grey	600		50	2.330	**2036 61 4**
106 VDE PG29 PA	Pg 29	Light grey	120		10	3.830	**2036 63 0**
106 VDE PG36 PA	Pg 36	Light grey	80		10	7.800	**2036 65 7**

PA Polyamide /100 pc.

Standard cable gland, shape A, to DIN 46320 with simple NR/SBR sealing ring PG connection thread to DIN 40430.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Important dimensions, cone cable gland

G	D1 mm	D2 mm	D3 mm	D4 mm	SW1 mm	SW2 mm	L1 mm	L2 mm	L3 mm	L4 mm	L max. mm
Pg 9	4.5–7	21.5	10.2	10.2	19	16	8	14	5	9	25
Pg 11	5.5–10	25	11.3	11.5	22	19	8	15	5	10	27
Pg 13.5	9–13	27	13.4	13.5	24	21	9	16	5	10.8	28
Pg 16	10–14	30	15.8	16.5	27	23	10	16.5	6	12	30
Pg 21	14–18	37.5	21.2	21	33	30	11	19	7	17	38
Pg 29	18–25	47.5	30	27.5	42	40	11	20.5	8	18	42
Pg 36	25–33	58	38	34.5	53	50	12	24	8	17	43



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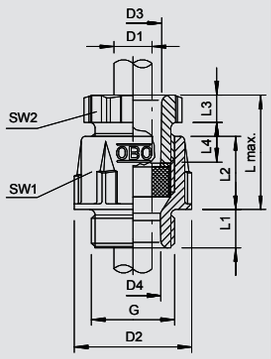
Always indicate the item number when ordering.



Cable gland, metric thread

IP 54 IP 65 M Fluor Chlor Brom HALOGENFREE

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 M12 PS	M12 x 1,5	Light grey	900		50	0.400	**2035 31 6**
106 M16 PS	M16 x 1,5	Light grey	600		50	0.560	**2035 32 4**
106 M 20 PS	M20 x 1,5	Light grey	600		50	0.900	**2035 33 2**
106 M 25 PS	M25 x 1,5	Light grey	600		50	2.110	**2035 34 0**
106 M 32 PS	M32 x 1,5	Light grey	120		10	3.700	**2035 35 9**
106 M 40 PS	M40 x 1,5	Light grey	80		10	6.240	**2035 36 7**
106 M 50 PS	M50 x 1,5	Light grey	50		5	8.500	**2035 37 5**
106 M 63 PS	M63 x 1,5	Light grey	50		5	9.630	**2035 38 3**

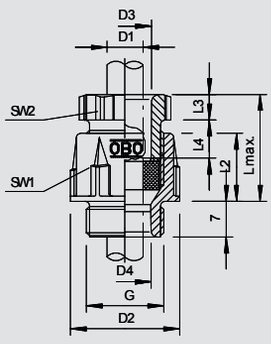
PS Polystyrene /100 pc.

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.

Shock-resistant

Important dimensions, cone cable gland

G	D1 mm	D2 mm	D3 mm	D4 mm	SW1 mm	SW2 mm	L1 mm	L2 mm	L3 mm	L4 mm	L max. mm
M12 x 1.5	3.5–6.5	16.5	7	7	15	13	8	13	5	8.5	23
M16 x 1.5	4.5–7	21.5	10.2	10	19	16	8	14	5	9	25
M20 x 1.5	9–13	27	13.4	13.5	24	21	9	16	5	10.8	28
M25 x 1.5	10–14	30	15.8	16	27	23	10	16.5	6	12	30
M32 x 1.5	18–25	47.5	30.3	26	42	40	11	20.5	8	18	42
M40 x 1.5	25–33	58	38.4	33	53	50	12	24	8	17	43
M50 x 1.5	30–38	65	44.5	40.5	60	55	13	27	9	18.5	48
M63 x 1.5	37–44	70	50	45.5	65	60	14	27	9	18.5	48



Cable gland, short metric thread

IP 54 IP 65 M Fluor Chlor Brom HALOGENFREE

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 K M20 PS	M20x1,5	Light grey	600		50	0.960	**2038 07 2**

PS Polystyrene /100 pc.

Cable gland, shape A, to DIN 46320, however with shorter connection thread, particularly suitable for junction box with metric connection thread with simple NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Shock-resistant

Important dimensions, cone cable gland

G	D1 mm	D2 mm	D3 mm	D4 mm	SW1 mm	SW2 mm	L2 mm	L3 mm	L4 mm	L max. mm
M20 x 1.5	9–13	27	13.4	14	24	21	16	5	10.8	26

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Cable gland, polystyrene

Cable gland, PG thread

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 PG7	Pg 7	Light grey	900		50	0.400	**2036 06 1**
106 PG9	Pg 9	Light grey	600		50	0.560	**2036 09 6**
106 PG11	Pg 11	Light grey	500		50	0.800	**2036 11 8**
106 PG13.5	Pg 13,5	Light grey	600		50	0.900	**2036 13 4**
106 PG16	Pg 16	Light grey	600		50	1.230	**2036 16 9**
106 PG21	Pg 21	Light grey	600		50	2.120	**2036 21 5**
106 PG29	Pg 29	Light grey	120		10	3.700	**2036 29 0**
106 PG36	Pg 36	Light grey	80		10	6.240	**2036 36 3**
106 PG42	Pg 42	Light grey	50		5	8.500	**2036 42 8**
106 PG48	Pg 48	Light grey	50		5	9.630	**2036 48 7**

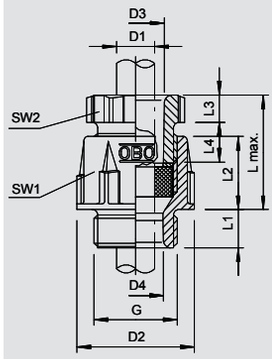
PS Polystyrene /100 pc.

Standard cable gland, shape A, to DIN 46320 with simple NR/SBR sealing ring PG connection thread to DIN 40430.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Shock-resistant

Important dimensions, cone cable gland

G	D1 mm	D2 mm	D3 mm	D4 mm	SW1 mm	SW2 mm	L1 mm	L2 mm	L3 mm	L4 mm	L max. mm
Pg 7	3.5–6.5	16.5	7	7	15	13	8	13	5	8.5	23
Pg 9	4.5–7	21.5	10.2	10.2	19	16	8	14	5	9	25
Pg 11	5.5–10	25	11.3	11.5	22	19	8	15	5	10	27
Pg 13.5	9–13	27	13.4	13.5	24	21	9	16	5	10.8	28
Pg 16	10–14	30	15.8	16.5	27	23	10	16.5	6	12	30
Pg 21	14–18	37.5	21.2	21	33	30	11	19	7	17	38
Pg 29	18–25	47.5	30	27.5	42	40	11	20.5	8	18	42
Pg 36	25–33	58	38	34.5	53	50	12	24	8	17	43
Pg 42	30–38	65	44.5	40.5	60	55	13	27	9	18.5	48
Pg 48	37–44	70	50	45.5	65	60	14	27	9	18.5	48



Cable gland, short PG thread

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 K PG16 PS	Pg 16	Light grey	250		25	1.170	**2038 04 8**

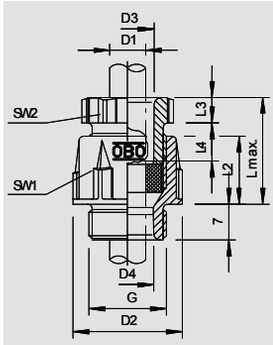
PS Polystyrene /100 pc.

Cable gland, shape A, to DIN 46320, however with shorter connection thread, particularly suitable for junction box with PG thread with simple NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Shock-resistant

Important dimensions, cone cable gland

G	D1 mm	D2 mm	D3 mm	D4 mm	SW1 mm	SW2 mm	L2 mm	L3 mm	L4 mm	L max. mm
Pg 16	10–14	30	15.8	15.5	27	23	16.5	6	12	27



Cable gland, long PG thread

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 L PG9 PS	Pg 9	Light grey	600		50	0.670	**2039 02 8**
106 L PG11 PS	Pg 11	Light grey	500		50	0.730	**2039 04 4**
106 L PG13.5 PS	Pg 13,5	Light grey	600		50	1.050	**2039 06 0**
106 L PG16 PS	Pg 16	Light grey	250		25	1.430	**2039 08 7**
106 L PG21 PS	Pg 21	Light grey	300		25	2.580	**2039 10 9**

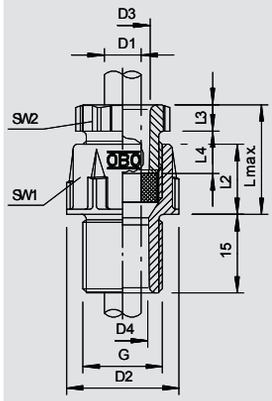
PS Polystyrene /100 pc.

Cable gland, shape A, to DIN 46320 with long PG connection thread to DIN 40430, (preferably for use with locknut), with simple NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Shock-resistant

Important dimensions, cone cable gland

G	D1 mm	D2 mm	D3 mm	D4 mm	SW1 mm	SW2 mm	L2 mm	L3 mm	L4 mm	L max. mm
Pg 9	4.5–7	21.5	10.2	10	19	16	14	5	9	32
Pg 11	5.5–10	25	11.3	12	22	19	15	5	10	34
Pg 13.5	9–13	27	13.4	14	24	21	16	5	10.8	34
Pg 16	10–14	30	15.8	16	27	23	16.5	6	12	35
Pg 21	14–18	37.5	21.2	21	33	30	19	7	17	42



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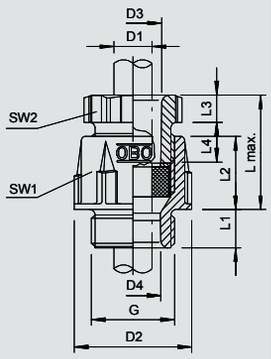


Cable gland, metric cutting ring

IP 54 IP 65 M

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 B M16 PS	M16 x 1,5	Light grey	600		50	0.560	**2035 51 0**
106 B M20 PS	M20 x 1,5	Light grey	600		50	0.900	**2035 51 2**
106 B M25 PS	M25 x 1,5	Light grey	600		50	2.110	**2035 51 4**
106 B M32 PS	M32 x 1,5	Light grey	120		10	3.700	**2035 51 6**
106 B M40 PS	M40 x 1,5	Light grey	80		10	6.240	**2035 51 8**
106 B M50 PS	M50 x 1,5	Light grey	50		5	8.500	**2035 52 0**
106 B M63 PS	M63 x 1,5	Light grey	50		5	9.630	**2035 52 2**

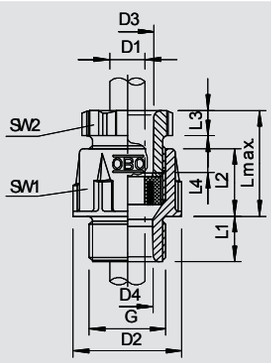
PS Polystyrene /100 pc.

Cable gland, shape A, to DIN 46320 with NR/SBR cutting ring, giving an extended sealing area, with metric connection thread to IEC 423. Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Shock-resistant

Important dimensions, cone cable gland

G	D1	D2	D3	D4	SW1	SW2	L1	L2	L3	L4	L max.
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
M16 x 1.5	5–10	21.5	10.2	10.2	19	16	8	14	5	9	25
M20 x 1.5	7.5–13	27	13.4	13.5	24	21	9	16	5	10.8	28
M25 x 1.5	7.5–15	30	15.8	16.5	27	23	10	16.5	6	12	30
M32 x 1.5	18–27	47.5	30	27.5	42	40	11	20.5	8	18	42
M40 x 1.5	24–34	58	38	34.5	53	50	12	24	8	17	43
M50 x 1.5	30–40	65	45	40.5	60	55	13	27	9	18.5	48
M63 x 1.5	36–45	70	50	45.5	65	60	14	27	9	18.5	48



Cable gland, PG cutting ring

IP 54 IP 65 Pg

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 B PG9 PS	Pg 9	Light grey	600		50	0.700	**2036 08 8**
106 B PG11 PS	Pg 11	Light grey	500		50	0.980	**2036 12 6**
106 B PG13.5 PS	Pg 13,5	Light grey	600		50	1.050	**2036 14 2**
106 B PG16 PS	Pg 16	Light grey	600		50	1.590	**2036 15 0**
106 B PG21 PS	Pg 21	Light grey	600		50	2.590	**2036 22 3**
106 B PG29 PS	Pg 29	Light grey	120		10	5.490	**2036 30 4**
106 B PG36 PS	Pg 36	Light grey	160		10	10.240	**2036 37 1**
106 B PG42 PS	Pg 42	Light grey	50		5	18.510	**2036 43 6**

PS Polystyrene /100 pc.

Cable gland, shape A, to DIN 46320.
With PG connection thread to DIN 40430.
With NR/SBR cutting ring, giving an extended sealing area.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Important dimensions, cone cable gland

G	D1	D2	D3	D4	SW1	SW2	L1	L2	L3	L4	L max.
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Pg 9	5–10	21.5	10.2	10.2	19	16	8	14	5	9	25
Pg 11	7.5–11.5	25	11.3	11.5	22	19	8	15	5	10	27
Pg 13.5	7.5–13	27	13.4	13.5	24	21	9	16	5	10.8	28
Pg 16	7.5–15	30	15.8	16.5	27	23	10	16.5	6	12	30
Pg 21	10–20	37.5	21.2	21	33	30	11	19	7	17	38
Pg 29	18–27	47.5	30	27.5	42	40	11	20.5	8	18	42
Pg 36	24–34	58	38	34.5	53	50	12	24	8	17	43
Pg 42	30–40	65	44.5	40.5	60	55	13	27	9	18.5	48

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Cable gland, polystyrene

Reducing cone cable gland, PG thread

Type	External thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 R PG13-9 PS	Pg 13,5	Light grey	500		50	0.600	**2040 04 2**
106 R PG13-11 PS	Pg 13,5	Light grey	500		50	0.740	**2040 06 9**
106 R PG16-13 PS	Pg 16	Light grey	300		25	1.030	**2040 10 7**

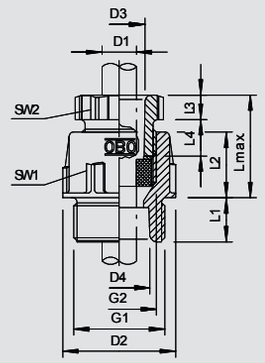
PS Polystyrene /100 pc.

The reducing cable glands are used anywhere in which, with a PG thread, smaller cable diameters must be sealed.
Dimensions according to DIN 46320.
PG connection thread to DIN 40430.
With simple NR/SBR sealing ring.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Shock-resistant

Important dimensions, reducing cone cable gland

G1	G2	D1	D2	D3	D4	SW1	SW2	L1	L2	L3	L4	L max.
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Pg 13.5	Pg 9	4.5–7	25.5	102	10	19	16	9	14.5	5	9	26
Pg 13.5	Pg 11	5–10	25.5	113	12	22	19	9	15	5	10	27
Pg 16	Pg 13.5	9–13	28	13.4	14	24	21	11	16.5	5	10.8	29.5



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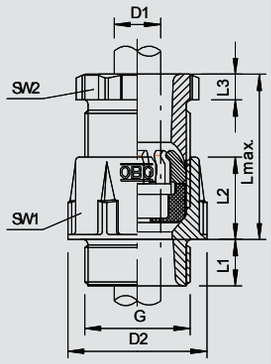


Cable gland, PG strain relief

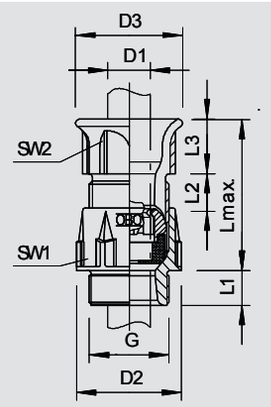
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 Z PG9 PC	Pg 9	Light grey	300		50	0.630	**2023 50 4**
106 Z PG11 PC	Pg 11	Light grey	500		50	0.860	**2023 51 2**
106 Z PG13.5 PC	Pg 13,5	Light grey	600		50	1.100	**2023 52 0**
106 Z PG16 PC	Pg 16	Light grey	250		25	1.420	**2023 53 9**
106 Z PG21 PC	Pg 21	Light grey	300		25	2.500	**2023 54 7**

PC Polycarbonate /100 pc.

Cable gland with external dimensions to DIN 46320, however with integrated centrically acted strain relief.
PG connection thread to DIN 40430.
Sealing ring made of chloroprene rubber with double-action sealing function.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Important dimensions, cone cable gland

G	D1	D2	SW1	SW2	L1	L2	L3	L max.
	mm	mm	mm	mm	mm	mm	mm	mm
Pg 9	5–8	21.5	19	16	8	14	5	25
Pg 11	6–10	25	22	19	8	15	5	27
Pg 13.5	8–12	27	24	21	9	16	5	28
Pg 16	10–14	30	27	33	10	16.5	6	30
Pg 21	13–18	37.5	33	30	11	19	7	38



Cable gland, PG bend protection

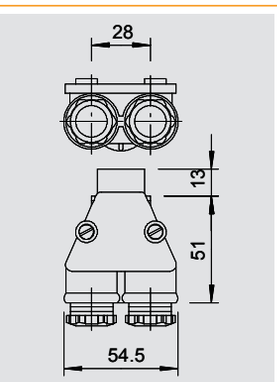
Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
106 ZB PG9 PC	Pg 9	Light grey	500		50	0.730	**2023 70 9**
106 ZB PG11 PC	Pg 11	Light grey	600		50	0.960	**2023 71 7**
106ZB PG13.5 PC	Pg 13,5	Light grey	600		50	1.190	**2023 72 5**
106 ZB PG16 PC	Pg 16	Light grey	250		25	1.610	**2023 73 3**
106 ZB PG21 PC	Pg 21	Light grey	300		25	2.600	**2023 74 1**
106 ZB PG29 PC	Pg 29	Light grey	240		15	4.500	**2023 76 8**

PC Polycarbonate /100 pc.

Cable gland with integrated centrically acted strain relief and bend protection trumpet.
Sealing ring made of chloroprene rubber with double-action sealing function.
PG connection thread to DIN 40430.
Protection rating: with connection thread sealing ring IP65, without connection thread sealing ring IP54.

Important dimensions, cone cable gland

G	D1	D2	D3	SW1	SW2	L1	L2	L3	L max.
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Pg 9	5–8	21.5	23.5	19	16	8	14	10.2	30
PG 11	6–10	25	26	22	19	8	15	13	35
Pg 13.5	8–12	27	27.5	24	21	9	16	14	37
Pg 16	10–14	30	32	27	23	10	16.5	16	40
Pg 21	10–14	30	32	27	23	10	16.5	16	40
Pg 29	17–24	47.5	49	42	40	11	20.5	20	54



Twin gland, PG thread

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
113 PG13.5 LGR	Pg 13,5	Light grey	60		5	4.670	**2024 13 6**
113 PG16 LGR	Pg 16	Light grey	60		5	4.360	**2024 16 0**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, with removable polystyrene cover, as well as two polyethylene connection thread sealing rings.

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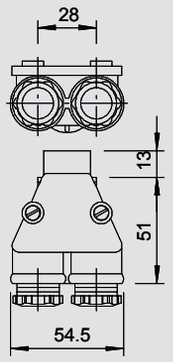
Cable gland, special

Twin gland, metric thread

Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
113 M20 LGR	M 20 x 1,5	Light grey	60		5	4.670	**2024 06 3**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

Protection rating IP54, with removable polystyrene cover, as well as two polyethylene connection thread sealing rings.
With connection thread M20 x 1.5, two half glands PG 13.5 for cable diameters 6.5–10.5 mm.



Flat cable threaded connection, metric thread M20

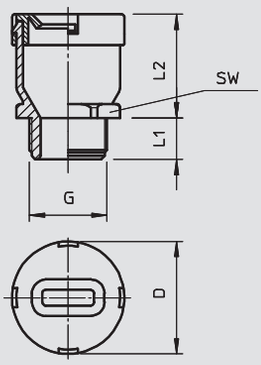
Type	Colour	Shipping box pcs	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
106 FL M20 8 19	Stone grey	600	M20	6-8	17-19	50	1.350	**2013 00 2**

PE Polyethylene /100 pc.

Flat-cable entry, choke-nipple design with metric connecting thread to IEC 432, protection rating IP 31, with pre-mounted support sealing ring 107/F.

Important dimensions, flat cable threaded connection

G	D	L1	L2	SW
	mm	mm	mm	mm
M20	32.5	12	30	27



Flat cable threaded connection, metric thread M25 - M40

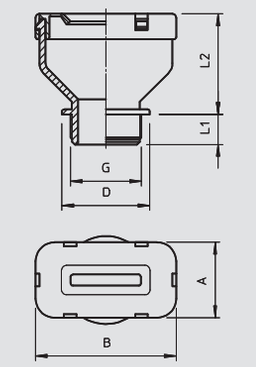
Type	Colour	Shipping box pcs	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
106 FL M25 6 30	Stone grey	200	M25	4-6	27-30	25	2.630	**2013 00 6**
106 FL M25 8 33	Stone grey	200	M25	6-8	30-33	25	2.630	**2013 00 7**
106 FL M25 9 22	Stone grey	200	M25	7-9	19-22	25	2.630	**2013 00 8**
106 FL M25 9 39	Stone grey	200	M25	7-9	36-39	25	2.630	**2013 00 9**
106 FL M25 10 29	Stone grey	200	M25	8-10	26-29	25	2.630	**2013 01 0**
106 FL M25 10 31	Stone grey	200	M25	8.5-10.5	28.5-31.5	25	2.630	**2013 01 1**
106 FL M25 12 35	Stone grey	200	M25	9-12	31-35	25	2.630	**2013 01 2**
106 FL M25 14 40	Stone grey	200	M25	11-14	37-40	25	2.680	**2013 01 3**
106 FL M32 6 30	Stone grey	180	M32	4-6	27-30	15	3.450	**2013 01 5**
106 FL M32 8 33	Stone grey	180	M32	6-8	30-33	15	3.450	**2013 01 6**
106 FL M32 9 22	Stone grey	180	M32	7-9	19-22	15	3.450	**2013 01 7**
106 FL M32 9 39	Stone grey	180	M32	7-9	36-39	15	3.450	**2013 01 8**
106 FL M32 10 29	Stone grey	180	M32	8-10	26-29	15	3.450	**2013 01 9**
106 FL M32 10 31	Stone grey	180	M32	8.5-10.5	28.5-31.5	15	3.450	**2013 02 0**
106 FL M32 12 35	Stone grey	180	M32	9-12	31-35	15	3.450	**2013 02 1**
106 FL M32 14 40	Stone grey	180	M32	11-14	37-40	15	3.500	**2013 02 2**
106 FL M40 6 30	Stone grey	180	M40	4-6	27-30	15	3.450	**2013 02 5**
106 FL M40 8 33	Stone grey	180	M40	6-8	30-33	15	3.450	**2013 02 6**
106 FL M40 9 22	Stone grey	180	M40	7-9	19-22	15	3.450	**2013 02 7**
106 FL M40 9 39	Stone grey	180	M40	7-9	36-39	15	3.450	**2013 02 8**
106 FL M40 10 29	Stone grey	180	M40	8-10	26-29	15	3.450	**2013 02 9**
10 6FL M40 10 31	Stone grey	180	M40	8.5-10.5	28.5-31.5	15	3.450	**2013 03 0**
106 FL M40 12 35	Stone grey	180	M40	9-12	31-35	15	3.450	**2013 03 1**
106 FL M40 14 40	Stone grey	180	M40	11-14	37-40	15	3.500	**2013 03 2**

PE Polyethylene /100 pc.

Flat-cable entry, choke-nipple design with metric connecting thread to IEC 432, protection rating IP31, with pre-mounted support sealing ring 107/F.

Important dimensions, flat cable threaded connection

G	D	L1	L2	A	B
	mm	mm	mm	mm	mm
M25	35	12	40	30	56
M32	46	13	46	30	56
M40	46	13	46	30	56



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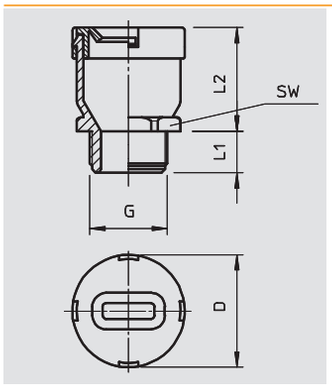


Flat cable threaded connection, PG thread Pg16

IP 31 Pg

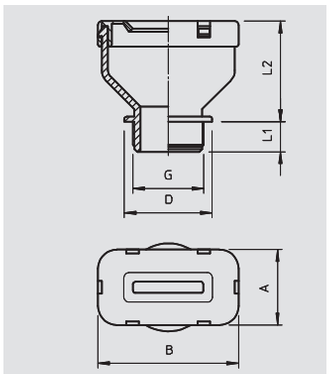
Type	Colour	Shipping box pcs	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
106 FL 16 8 19	Stone grey	600	Pg 16	6-8	17-19	50	1.350	**2012 75 8**

PE Polyethylene /100 pc.

Flat-cable entry, choke-nipple design with PG connecting thread to DIN 40430, protection rating IP31, with pre-mounted support sealing ring 107/F.

Important dimensions, flat cable threaded connection

G	D	L1	L2	SW
	mm	mm	mm	mm
PG16	32.5	12	30	27



Flat cable threaded connection, PG thread Pg21-Pg29

IP 31 Pg

Type	Colour	Shipping box pcs	Thread	Flat cables/ thickness mm	Flat cables/ width mm	Pack. pcs	Weight kg/100 pcs.	Item No.
106 FL 21 6 30	Stone grey	200	Pg 21	4-6	27-30	25	2.630	**2012 85 5**
106 FL 21 8 33	Stone grey	200	Pg 21	6-8	30-33	25	2.630	**2012 78 2**
106 FL 21 9 22	Stone grey	200	Pg 21	7-9	19-22	25	2.630	**2012 82 0**
106 FL 21 9 39	Stone grey	200	Pg 21	7-9	36-39	25	2.630	**2012 80 4**
106 FL 21 10 29	Stone grey	200	Pg 21	8-10	26-29	25	2.630	**2012 83 9**
106 FL 21 10 31	Stone grey	200	Pg 21	8.5-10.5	28.5-31.5	25	2.630	**2012 87 1**
106 FL 21 12 35	Stone grey	200	Pg 21	9-12	31-35	25	2.630	**2012 84 7**
106 FL 21 14 40	Stone grey	200	Pg 21	11-14	37-40	25	2.680	**2012 92 8**
106 FL 29 14 40	Stone grey	180	Pg 29	11-14	37-40	15	3.500	**2012 77 4**

PE Polyethylene /100 pc.

Flat-cable entry, choke-nipple design with PG connecting thread to DIN 40430, protection rating IP31, with pre-mounted support sealing ring 107/F.

Important dimensions, flat cable threaded connection

G	D	L1	L2	A	B
	mm	mm	mm	mm	mm
PG21	35	12	40	30	56
PG29	46	13	46	30	56

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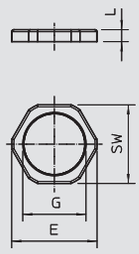
Locknuts, polyamide

Locknut, metric thread

Type	Thread	Colour	SW mm	Dimension E mm	Dimension L mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
116 M12 SGR PA	M12x1,5	Silver grey	17	19	5	2000		100	0.100	**2048 75 2**
116 M16 SGR PA	M16x1,5	Silver grey	22	25	5	1000		100	0.160	**2048 76 0**
116 M20 SGR PA	M20x1,5	Silver grey	26	29	6	1200		100	0.250	**2048 77 9**
116 M25 SGR PA	M25x1,5	Silver grey	32	36	6.5	1000		100	0.350	**2048 78 7**
116 M32 SGR PA	M32x1,5	Silver grey	41	46	7	500		50	0.610	**2048 79 5**
116 M40 SGR PA	M40x1,5	Silver grey	50	56	7.5	250		25	0.470	**2048 80 9**
116 M50 SGR PA	M50x1,5	Silver grey	60	68	8	250		25	1.760	**2048 81 7**
116 M63 SGR PA	M63x1,5	Silver grey	75	83	8.5	200		25	1.830	**2048 82 5**
116 M12 LGR PA	M12x1,5	Light grey	17	19	5	2000		100	0.100	**2048 90 6**
116 M16 LGR PA	M16x1,5	Light grey	22	25	5	1000		100	0.160	**2048 91 4**
116 M20 LGR PA	M20x1,5	Light grey	26	29	6	1200		100	0.250	**2048 92 2**
116 M25 LGR PA	M25x1,5	Light grey	32	36	6.5	1000		100	0.350	**2048 93 0**
116 M32 LGR PA	M32x1,5	Light grey	41	46	7	500		50	0.610	**2048 94 9**
116 M40 LGR PA	M40x1,5	Light grey	50	56	7.5	250		25	1.680	**2048 95 7**
116 M50 LGR PA	M50x1,5	Light grey	60	68	8	250		25	0.890	**2048 96 5**
116 M63 LGR PA	M63x1,5	Light grey	75	83	8.5	200		25	1.830	**2048 97 3**
116 M12 SW PA	M12x1,5	Black	17	19	5	2000		100	0.100	**2049 06 6**
116 M16 SW PA	M16x1,5	Black	22	25	5	1000		100	0.160	**2049 07 4**
116 M20 SW PA	M20x1,5	Black	26	29	6	1200		100	0.250	**2049 08 2**
116 M25 SW PA	M25x1,5	Black	32	36	6.5	1000		100	0.350	**2049 09 0**
116 M32 SW PA	M32x1,5	Black	41	46	7	500		50	0.610	**2049 10 4**
116 M40 SW PA	M40x1,5	Black	50	56	7.5	250		25	1.680	**2049 11 2**
116 M50 SW PA	M50x1,5	Black	60	68	8	250		25	1.760	**2049 12 0**
116 M63 SW PA	M63x1,5	Black	75	83	8.5	200		25	1.830	**2049 13 9**

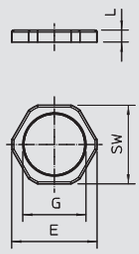


PA Polyamide /100 pc.

Locknut DIN 46319, with metric thread IEC 423.

Locknut, metric thread for function maintenance

Type	Thread	Colour	SW mm	Dimension E mm	Dimension L mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
116 M20 OR PA	M20 x 1,5	Pastel orange	26	29	6	1200		100	0.250	**7205 64 4**
116 M25 OR PA	M25 x 1,5	Pastel orange	32	36	6.5	1000		100	0.350	**7205 64 7**
116 M32 OR PA	M32 x 1,5	Pastel orange	41	46	7	500		50	0.570	**7205 65 0**
116 M40 OR PA	M40 x 1,5	Pastel orange	50	56	7.5	250		25	0.470	**7205 65 3**

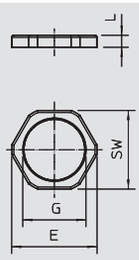


PA Polyamide /100 pc.

Locknut DIN 46319, with metric thread IEC 423.
For electrical function maintenance according to DIN 4102 Part 12 in connection with the junction boxes of the FireBox T series.

Locknut, PG thread

Type	Thread	Colour	SW mm	Dimension E mm	Dimension L mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
116 VDE PG7 PA	Pg 7	Light grey	19	21	5	2000		100	0.090	**2048 07 8**
116 VDE PG 9 PA	Pg 9	Light grey	22	24	5	2400		100	0.170	**2048 09 4**
116 VDE PG11 PA	Pg 11	Light grey	24	26	5	2400		100	0.180	**2048 11 6**
116 VDE PG13.5PA	Pg 13,5	Light grey	27	29	6	2000		100	0.260	**2048 13 2**
116 VDE PG16 PA	Pg 16	Light grey	30	33	6	2000		100	0.330	**2048 16 7**
116 VDE PG21 PA	Pg 21	Light grey	36	39	7	1200		100	0.470	**2048 22 1**
116 VDE PG29 PA	Pg 29	Light grey	46	50	7	500		50	1.100	**2048 29 9**
116 VDE PG36 PA	Pg 36	Light grey	60	66	8	250		25	1.680	**2048 36 1**
116 VDE PG42 PA	Pg 42	Light grey	65	73	8	250		25	1.760	**2048 42 6**
116 VDE PG48 PA	Pg 48	Light grey	70	78	8	200		25	1.830	**2048 48 5**



PA Polyamide /100 pc.

Locknut DIN 46320, with PG thread DIN 40430.

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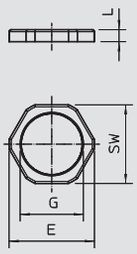
Always indicate the item number when ordering.



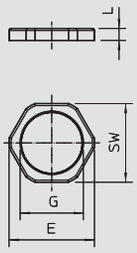
Locknut, metric thread

M

Type	Thread	Colour	SW	Dimension E	Dimension L	Shipping box		Pack.	Weight	Item No.
			mm	mm	mm	pcs		pcs	kg/100 pcs.	
116 M12 LGR PS	M12 x 1,5	Light grey	17	19	5	2000		100	0.100	**2049 50 3**
116 M16 LGR PS	M16 x 1,5	Light grey	22	25	5	1000		100	0.160	**2049 51 1**
116 M20 LGR PS	M20 x 1,5	Light grey	26	29	6	1200		100	0.250	**2049 53 8**
116 M25 LGR PS	M25 x 1,5	Light grey	32	36	6.5	1000		100	0.350	**2049 54 6**
116 M32 LGR PS	M32 x 1,5	Light grey	41	46	7	500		50	0.610	**2049 55 4**
116 M40 LGR PS	M40 x 1,5	Light grey	50	56	7.5	250		25	1.680	**2049 56 2**
116 M50 LGR PS	M50 x 1,5	Light grey	60	68	8	250		25	0.650	**2049 57 0**
116 M63 LGR PS	M63 x 1,5	Light grey	75	83	8.5	200		25	1.830	**2049 58 9**

PS Polystyrene /100 pc.

Locknut DIN 46319, with metric thread IEC 423.



Locknut, PG thread

Pg

Type	Thread	Colour	SW	Dimension E	Dimension L	Shipping box		Pack.	Weight	Item No.
			mm	mm	mm	pcs		pcs	kg/100 pcs.	
116 PG 7	Pg 7	Light grey	19	21	5	2000		100	0.080	**2043 07 6**
116 PG 9	Pg 9	Light grey	22	24	5	2400		100	0.110	**2043 09 2**
116 PG11	Pg 11	Light grey	24	26	5	2400		100	0.150	**2043 11 4**
116 PG13.5	Pg 13,5	Light grey	27	29	6	2000		100	0.210	**2043 13 0**
116 PG16	Pg 16	Light grey	30	33	6	2000		100	0.280	**2043 16 5**
116 PG21	Pg 21	Light grey	36	39	7	1200		100	0.340	**2043 21 1**
116 PG29	Pg 29	Light grey	46	50	7	500		50	0.660	**2043 29 7**
116 PG36	Pg 36	Light grey	60	66	8	250		25	1.380	**2043 35 1**
116 PG42	Pg 42	Light grey	65	73	8	250		25	1.440	**2043 42 4**
116 PG48	Pg 48	Light grey	70	78	8	200		25	1.500	**2043 48 3**

PS Polystyrene /100 pc.

Locknut DIN 46320, with PG thread DIN 40430.

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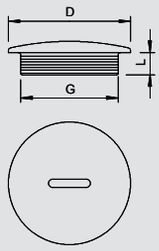
M

Screw plug, metric thread

Type	Colour	Shipping box pcs	Thread	Dimension D mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
108 M12 PS	Light grey	3000	M12 x 1,5	15	6	100	0.150	**2033 00 3**
108 M16 PS	Light grey	1800	M16 x 1,5	20	6	100	0.160	**2033 00 7**
108 M20 PS	Light grey	1200	M20 x 1,5	24	6	100	0.210	**2033 01 1**
108 M25 PS	Light grey	1000	M25 x 1,5	30	8	100	0.360	**2033 01 6**
108 M32 PS	Light grey	500	M32 x 1,5	37	8	50	0.350	**2033 02 1**
108 M40 PS	Light grey	300	M40 x 1,5	46	8	25	1.280	**2033 02 6**
108 M50 PS	Light grey	300	M50 x 1,5	56	10	25	1.400	**2033 03 2**
108 M63 PS	Light grey	300	M63 x 1,5	70	12	25	1.850	**2033 03 8**

PS Polystyrene /100 pc.

Screw plug in accordance with DIN 46320, with metric thread to IEC 423.



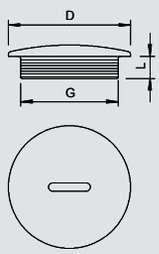
Pg

Screw plug, PG thread

Type	Colour	Shipping box pcs	Thread	Dimension D mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
108 PG 7	Light grey	2400	Pg 7	14	6	100	0.150	**2033 07 0**
108 PG 9	Light grey	1800	Pg 9	19	6	100	0.160	**2033 09 7**
108 PG11	Light grey	2000	Pg 11	22	6	100	0.180	**2033 11 9**
108 PG13.5	Light grey	1200	Pg 13,5	25	6.5	100	0.210	**2033 13 5**
108 PG16	Light grey	1000	Pg 16	27	6.5	100	0.240	**2033 15 1**
108 PG21	Light grey	1200	Pg 21	34	8	100	0.360	**2033 21 6**
108 PG29	Light grey	600	Pg 29	44	8	50	0.790	**2033 29 1**
108 PG36	Light grey	200	Pg 36	58	10	25	1.280	**2033 36 4**
108 PG42	Light grey	300	Pg 42	67	10	25	1.400	**2033 42 9**
108 PG48	Light grey	300	Pg 48	73	12	25	1.850	**2033 48 8**

PS Polystyrene /100 pc.

Screw plug in accordance with DIN 46320, with PG thread to DIN 40430.



Pg

Pressure screw, PG thread

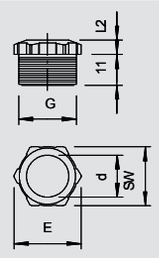
Type	Thread	Colour	Dimension D mm	SW mm	Dimension E mm	Dimension L1 mm	Dimension L2 mm	Pack. pcs	Weight kg/100 pcs.	Item No.
107 E PG7 PS	Pg 7	Light grey	7	13	14.7	8.5	5	100	0.120	**2025 07 8**
107 E PG9 PS	Pg 9	Light grey	10.2	16	18	9	5	100	0.170	**2025 09 4**
107 E PG11 PS	Pg 11	Light grey	11.3	19	21.5	10	5	100	0.180	**2025 11 6**
107 E PG13.5 PS	Pg 13,5	Light grey	13.4	21	23.8	10.5	5	100	0.330	**2025 13 2**
107 E PG16 PS	Pg 16	Light grey	15.8	23	26	12	6	100	0.400	**2025 16 7**
107 E PG21 PS	Pg 21	Light grey	21.2	30	34	17	7	50	0.700	**2025 21 3**
107 E PG29 PS	Pg 29	Light grey	30	40	45	18	8	25	1.300	**2025 29 9**
107 E PG36 PS	Pg 36	Light grey	38.2	50	56.5	17	8	25	2.510	**2025 36 1**
107 E PG42 PS	Pg 42	Light grey	44.5	55	62	18.5	9	10	4.540	**2025 42 6**
107 E PG48 PS	Pg 48	Light grey	50	60	68	18.5	9	10	5.580	**2025 48 5**

PS Polystyrene /100 pc.

Pressure screw (Part 1) to DIN 46320, with Pg thread DIN 40430.

Important dimensions, pressure screw

G	D mm	SW mm	E mm	L1 mm	L2 mm
Pg 7	7	13	14.7	8.5	5
Pg 9	10.2	16	18	9	5
Pg 11	11.3	19	21.5	10	5
Pg 13.5	13.4	21	23.8	10.5	5
Pg 16	15.8	23	26	12	6
Pg 21	21.2	30	34	17	7
Pg 29	30	40	45	18	8
Pg 36	38.2	50	56.5	17	8
Pg 42	44.5	55	62	18.5	9
Pg 48	50	60	68	18.5	9



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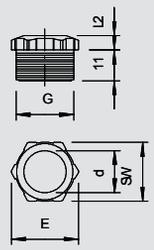


Pressure screw, PG thread

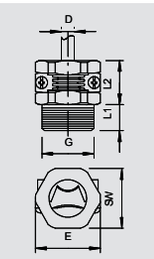
Type	Thread	Colour	Dimension D mm	SW mm	Dimension L1 mm	Dimension L2 mm		Pack. pcs	Weight kg/100 pcs.	Item No.
107 E PG11 PA	Pg 11	Light grey	11.3	19	10	5		100	0.230	**2025 53 1**
107 E PG13.5 PA	Pg 13,5	Light grey	13.4	21	10.5	5		100	0.350	**2025 56 6**
107 E PG21 PA	Pg 21	Light grey	21.2	30	17	7		50	0.780	**2025 60 4**
107 E PG36 PA	Pg 36	Light grey	38.2	50	17	8		25	2.830	**2025 64 7**

PA Polyamide /100 pc.

Pressure screw, Part 1, to DIN 46320, fibre-glass reinforced.

Important dimensions, pressure screw

G	D mm	SW mm	E mm	L1 mm	L2 mm
Pg 11	11.3	19	21.5	10	5
Pg 13.5	13.4	21	23.8	10.5	5
Pg 21	21.2	30	34	17	7
Pg 36	38.2	50	56.5	17	8



Pressure screw, PG strain relief

Type	Thread	Colour	Dimension D mm	Clamping range mm	Dimension L1 mm	Dimension L2 mm		Pack. pcs	Weight kg/100 pcs.	Item No.
107 Z PG 9 PA	Pg 9	Light grey	–	3.5-11.3	8.5	14.5		100	0.400	**2023 09 1**
107 Z PG11 PA	Pg 11	Light grey	–	4-13.3	9	16		100	0.600	**2023 11 3**
107 Z PG13.5 PA	Pg 13,5	Light grey	–	4.1-14.3	10	17		100	0.680	**2023 12 1**
107 Z PG16 PA	Pg 16	Light grey	–	5-16.2	10	19		50	0.900	**2023 16 4**
107 Z PG21 PA	Pg 21	Light grey	–	5.9-21.2	12.5	23.5		25	1.800	**2023 21 0**
107 Z PG29 PA	Pg 29	Light grey	–	7.1-29	16	30		25	3.000	**2023 29 6**

PA Polyamide /100 pc.

Pressure screw with transverse clip strain relief, electrogalvanised steel screws, PG thread to DIN 40430.

Important dimensions, pressure screw

G	D mm	SW mm	E mm	L1 mm	L2 mm
Pg 9	3.5–11.3	19	21	8.5	14.5
Pg 11	4–13.3	21	23	9	16
Pg 13.5	4.1–14.3	23	25	10	17
Pg 16	5–16.2	25	27	10	19
Pg 21	5.9–21.2	32	35	12.5	23.5
Pg 29	7.1–29	42	45	16	30

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Reduction, metric thread

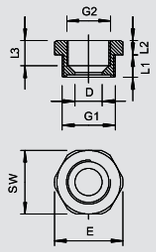
Type	External thread	Internal thread	Colour	SW mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
107 R M20-12 PA	M20	M12	Light grey	24	1200		100	0.500	**2030 61 6**
107 R M20-16 PA	M20	M16	Light grey	24	1200		100	0.700	**2030 61 9**
107 R M25-12 PA	M25	M12	Light grey	32	1200		100	0.850	**2030 62 4**
107 R M25-16 PA	M25	M16	Light grey	32	1200		100	0.850	**2030 62 6**
107 R M25-20 PA	M25	M20	Light grey	32	1200		100	0.650	**2030 62 8**
107 R M32-12 PA	M32	M12	Light grey	36	600		50	1.200	**2030 63 2**
107 R M32-16 PA	M32	M16	Light grey	36	600		50	1.100	**2030 63 4**
107 R M32-20 PA	M32	M20	Light grey	36	600		50	1.050	**2030 63 7**
107 R M32-25 PA	M32	M25	Light grey	36	600		50	1.000	**2030 64 0**
107 R M40-16 PA	M40	M16	Light grey	46	600		50	2.000	**2030 64 3**
107 R M40-20 PA	M40	M20	Light grey	46	600		50	1.850	**2030 64 6**
107 R M40-25 PA	M40	M25	Light grey	46	600		50	1.950	**2030 64 9**
107 R M40-32 PA	M40	M32	Light grey	46	600		50	1.400	**2030 65 2**
107 R M50-20 PA	M50	M20	Light grey	55	300		25	2.300	**2030 65 5**
107 R M50-25 PA	M50	M25	Light grey	55	300		25	2.250	**2030 65 9**
107 R M50-32 PA	M50	M32	Light grey	55	300		25	2.200	**2030 66 1**
107 R M50-40 PA	M50	M40	Light grey	55	300		25	2.050	**2030 66 4**
107 R M63-25 PA	M63	M25	Light grey	68	300		25	3.050	**2030 66 7**
107 R M63-32 PA	M63	M32	Light grey	68	300		25	3.070	**2030 67 0**
107 R M63-40 PA	M63	M40	Light grey	68	300		25	3.100	**2030 67 3**
107 R M63-50 PA	M63	M50	Light grey	68	300		25	3.000	**2030 67 5**

PA Polyamide /100 pc.

Reduction, with metric internal and external thread.

Important dimensions, reduction

G1	G2	SW mm	E mm	L1 mm	L3 mm
M20	M12	24	26.6	8	12
M20	M16	24	26.6	8	12
M25	M12	32	32	8	14
M25	M16	32	32	8	14
M25	M20	32	32	8	14
M32	M12	36	40	10	16
M32	M16	36	40	10	16
M32	M20	36	40	10	16
M32	M25	36	40	10	16
M40	M16	46	50.5	10	16
M40	M20	46	50.5	10	16
M40	M25	46	50.5	10	16
M40	M32	46	50.5	10	16
M50	M20	55	60	12	18
M50	M25	55	60	12	18
M50	M32	55	60	12	18
M50	M40	55	60	12	18
M63	M25	68	75	12	18
M63	M32	68	75	12	18
M63	M40	68	75	12	18
M63	M50	68	75	12	18



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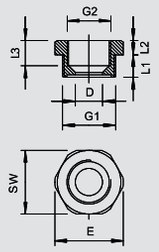


Reduction, PG thread

Pg

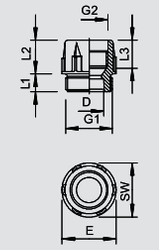
Type	External thread	Internal thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
107 R PG11- 7 PA	Pg 11	Pg 7	Light grey	500		50	0.400	**2030 70 5**
107 R PG13- 9 PA	Pg 13,5	Pg 9	Light grey	1200		50	0.450	**2030 71 3**
107 R PG16- 9 PA	Pg 16	Pg 9	Light grey	1000		50	0.600	**2030 74 8**
107 R PG16-11 PA	Pg 16	Pg 11	Light grey	1000		50	0.480	**2030 75 6**
107 R PG21-11 PA	Pg 21	Pg 11	Light grey	1000		50	0.910	**2030 76 4**
107 R PG21-13 PA	Pg 21	Pg 13,5	Light grey	500		50	0.800	**2030 77 2**
107 R PG21-16 PA	Pg 21	Pg 16	Light grey	500		50	0.650	**2030 78 0**
107 R PG29-16 PA	Pg 29	Pg 16	Light grey	600		50	1.460	**2030 79 9**
107 R PG29-21 PA	Pg 29	Pg 21	Light grey	250		25	1.500	**2030 80 2**
107 R PG36-21 PA	Pg 36	Pg 21	Light grey	300		25	2.350	**2030 82 9**
107 R PG36-29 PA	Pg 36	Pg 29	Light grey	300		25	2.200	**2030 81 0**
107 R PG42-29 PA	Pg 42	Pg 29	Light grey	300		25	2.350	**2030 83 7**

PA Polyamide /100 pc.

Reduction, Pg internal and external thread to DIN 40430.

Important dimensions, reduction

G1	G2	D mm	SW mm	E mm	L1 mm	L2 mm	L3 mm
Pg 11	Pg 7	7.5	22	24	8	6	9.5
Pg 13.5	Pg 9	9.5	24	26	8.5	6	9.5
Pg 16	Pg 9	9.5	27	29	9.5	6	11.5
Pg 16	Pg 11	11.5	27	29	9.5	6	11
Pg 21	Pg 11	11.5	32	35.5	10.5	5	11
Pg 21	Pg 13.5	13.5	32	35.5	10.5	5	11
Pg 21	Pg 16	16.5	32	35.5	10.5	5	11
Pg 29	Pg 16	16.5	40	43	12	6	12.5
Pg 29	Pg 21	21.5	39	43	12.5	6	13.5
Pg 36	Pg 21	21	50	54	13	6	13.5
Pg 36	Pg 29	28.5	50	54	18	6	18
Pg 42	Pg 29	27.5	55	59	16	6	17



Reducing intermediate connector, PG thread

Pg

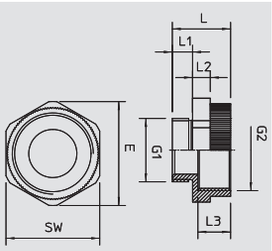
Type	External thread	Internal thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
107 RZ PG 9-7	Pg 9	Pg 7	Light grey	1000		100	0.400	**2031 30 2**
107 RZ PG11-9	Pg 11	Pg 9	Light grey	800		100	0.380	**2031 32 9**
107 RZ PG13-11	Pg 13,5	Pg 11	Light grey	800		100	0.480	**2031 34 5**
107 RZ PG16-13	Pg 16	Pg 13,5	Light grey	500		50	0.620	**2031 38 8**
107 RZ PG21-16	Pg 21	Pg 16	Light grey	600		50	0.780	**2031 41 8**
107 RZ PG29-21	Pg 29	Pg 21	Light grey	300		25	1.380	**2031 44 2**

PA Polyamide /100 pc.

Reducing intermediate connector, PG internal and external thread to DIN 40430.

Important dimensions, reducing intermediate connector

G1	G2	D mm	SW mm	E mm	L1 mm	L2 mm	L3 mm
Pg 9	Pg 7	7.5	19	21	7.5	12.5	10
Pg 11	Pg 9	10	19	23	9	14	11.7
Pg 13.5	Pg 11	12	19	25	9	14.5	11.7
Pg 16	Pg 13.5	14	24	28	11	16.5	12.9
Pg 21	Pg 16	15.5	27	34	11	17	13.5
Pg 29	Pg 21	21	33	44	12	21	17.4



Intermediate expansion connector, metric thread

M

Type	External thread	Internal thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
107 E M 12-16 PA	M12	M16	Light grey	500		50	0.300	**2031 45 0**
107 E M 16-20 PA	M16	M20	Light grey	600		50	0.380	**2031 45 1**
107 E M 20-25 PA	M20	M25	Light grey	500		50	0.630	**2031 45 2**
107 E M 25-32 PA	M25	M32	Light grey	400		50	0.970	**2031 45 3**
107 E M 32-40 PA	M32	M40	Light grey	200		25	1.300	**2031 45 4**

PA Polyamide /100 pc.

Intermediate expansion connector, metric internal and external thread.

Important dimensions, intermediate expansion connector

G1	G2	SW mm	E mm	L mm	L1 mm	L2 mm	L3 mm	D mm
M12	M16	20	22	20.6	8	5	11.2	7.2
M16	M20	24	26.6	20.6	8	5	11	11.3
M20	M25	30	33	21	8	6	10.8	15
M25	M32	37	41	22.7	8	7	12.5	19
M32	M40	45	49.5	25	10	7	12.5	26.4

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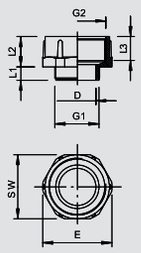
Intermediate expansion connector, PG thread



Type	External thread	Internal thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
107 EZ PG9-11 PA	Pg 9	Pg 11	Light grey	800		100	0.400	**2030 89 6**
107 EZ PG11-13PA	Pg 11	Pg 13,5	Light grey	800		100	0.420	**2030 93 4**
107 EZ PG13-16PA	Pg 13,5	Pg 16	Light grey	1200		100	0.620	**2030 95 0**
107 EZ PG16-21PA	Pg 16	Pg 21	Light grey	600		50	0.940	**2030 97 7**
107 EZ PG21-29PA	Pg 21	Pg 29	Light grey	400		50	1.650	**2030 99 3**
107 EP PG29-36PA	Pg 29	Pg 36	Light grey	200		25	2.600	**2030 98 5**

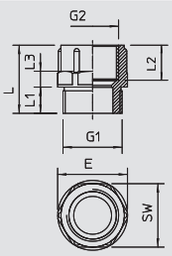
PA Polyamide /100 pc.

Intermediate expansion connector, Pg internal and external thread to DIN 40430.

Important dimensions, intermediate expansion connector

G1	G2	D	SW	E	L1	L2	L3
		mm	mm	mm	mm	mm	mm
Pg 9	Pg 11	10	22	25	9	16	11.5
Pg 11	Pg 13.5	13.5	24	26	8	15	12
Pg 13.5	Pg 16	15	27	29.5	9	16.5	13.5
Pg 16	Pg 21	16	32	35.5	9	20	14.5
Pg 21	Pg 29	22	42	45.5	10	22	16.5
Pg 29	Pg 36	30.5	53	57	11	25	20

Adapter M-PG



Type	External thread	Internal thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
107 ADA M12-PG9	M12	PG9	Light grey	300		20	0.280	**2031 45 6**
107 ADA M16-PG9	M16	PG9	Light grey	200		20	0.400	**2031 45 7**
107 ADA M20-PG11	M20	PG11	Light grey	200		20	0.550	**2031 45 8**
107 ADA M20-PG13	M20	PG13,5	Light grey	200		20	0.470	**2031 45 9**
107 ADA M25-PG16	M25	PG16	Light grey	240		20	0.870	**2031 46 0**
107 ADA M32-PG29	M32	PG29	Light grey	120		10	1.540	**2031 46 1**
107 ADA M40-PG29	M40	PG29	Light grey	100		10	1.870	**2031 46 2**
107 ADA M50-PG36	M50	PG36	Light grey	50		5	2.980	**2031 46 3**

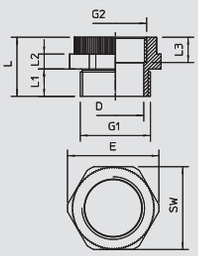
PA Polyamide /100 pc.

Adapter for converting a metric threaded drill hole to a Pg threaded drill hole.

Important dimensions, adapter

G1	G2	SW	E	L	L1	L2	L3	D
		mm	mm	mm	mm	mm	mm	mm
M12	PG 9	19	21	24.2	11.4	10	5	8
M16	PG 9	19	21	25.6	11	10	6	9.8
M20	PG11	22	24.8	26.6	10.8	11.8	6	13.4
M20	PG13.5	24	26.1	26.2	10.8	13.3	7	15
M25	PG16	27	29.6	28.8	10.6	14	7	17
M32	PG29	42	45.5	33	11	17.2	7	26.4
M40	PG29	42	45.5	33.7	10.5	18	8	33
M50	PG36	53	56.5	36.7	11	21	8.5	43

Adapter PG-M



Type	External thread	Internal thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
107 ADA PG7-M12	PG7	M12	Light grey	300		20	0.190	**2031 46 5**
107 ADA PG9-M12	PG9	M12	Light grey	300		20	0.370	**2031 46 6**
107 ADA PG11-M16	PG11	M16	Light grey	240		20	0.410	**2031 46 7**
107 ADA PG13-M20	PG13,5	M20	Light grey	240		20	0.420	**2031 46 8**
107 ADA PG16-M20	PG16	M20	Light grey	200		20	0.630	**2031 46 9**
107 ADA PG21-M25	PG21	M25	Light grey	100		10	0.940	**2031 47 0**
107 ADA PG29-M32	PG29	M32	Light grey	120		10	1.610	**2031 47 1**

PA Polyamide /100 pc.

Adapter for converting a Pg threaded drill hole to a metric threaded drill hole.

Important dimensions, adapter

G1	G2	SW	E	L	L1	L2	L3	D
		mm	mm	mm	mm	mm	mm	mm
PG 7	M12	15	16.5	20.3	7.9	5	10.4	7.7
PG 9	M12	19	21	20		5	10	10.5
PG11	M16	22	24.5	20.3	8	5	10	13.6
PG13.5	M20	24	26.7	21.3	9.1	5	10	15.2
PG16	M20	27	30	22	10	6	10	17.6
PG21	M25	33	36.5	23.6	10.9	6	10	22.7
PG29	M32	42	46.7	25.5	11.2	7	10.4	30.8

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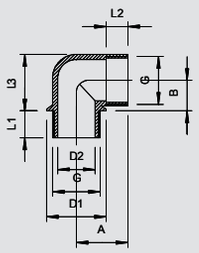


90° elbow socket, PG thread

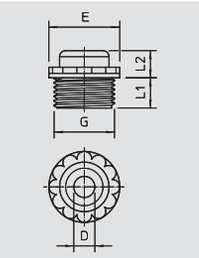
Type	External thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
107 W PG 9 PA	Pg 9	Light grey	600		50	0.390	**2029 90 1**
107 W PG11 PA	Pg 11	Light grey	500		50	0.620	**2029 92 8**
107 W PG13.5 PA	Pg 13,5	Light grey	600		50	0.750	**2029 93 6**
107 W PG16 PA	Pg 16	Light grey	600		50	0.950	**2029 94 4**
107 W PG21 PA	Pg 21	Light grey	300		25	1.470	**2029 95 2**

PA Polyamide /100 pc.

Elbow socket with PG internal and external thread to DIN 40430.
The elbow socket can be turned into an angular gland with two steel pressure rings 107/D, a sealing ring 107/A or 107/B and a pressure screw 107/E.

Important dimensions, 90° elbow socket

G	D1 mm	D2 mm	A mm	B mm	L1 mm	L2 mm	L3 mm
Pg 9	19.5	11.5	18.5	10.5	11	9	19
Pg 11	23.5	15	20	12	11	9.5	22
Pg 13.5	25.5	16	22	13	11.5	10	24
Pg 16	27.5	18.5	24	15	11.5	11	27
Pg 21	34	24	28	18	13	13	33

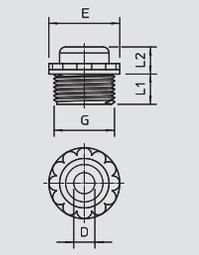


Screw-in nipple, metric thread

Type	Thread	Colour	Dimension D mm	SW mm	Dimension E mm	Dimension L1 mm	Dimension L2 mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
90 M12 OF	M12 x 1,5	Light grey	3.5	13	17	8	6	3000		100	0.170	**2032 00 7**
90 M16 OF	M16 x 1,5	Light grey	5	16	20	8	6	2600		100	0.190	**2032 01 1**
90 M20 OF	M20 x 1,5	Light grey	7	21	24	10	6	1600		100	0.270	**2032 01 5**
90 M25 OF	M25 x 1,5	Light grey	8.5	30	32	12	6	500		50	0.510	**2032 01 9**
90 M32 OF	M32 x 1,5	Light grey	13	34	39	14	8	250		25	0.690	**2032 02 3**
90 M40 OF	M40 x 1,5	Light grey	22	44	48	16	8	120		10	0.880	**2032 03 1**

PE Polyethylene /100 pc.

With open cable entry.
Grip seal to screw into metric thread end to IEC 423.
With self-sealing cone at the end of the thread, therefore no connection thread sealing ring required.
Protection rating achievable with careful mounting: IP54.
With open cable entry.



Screw-in nipple, metric thread

Type	Thread	Colour	Dimension D mm	SW mm	Dimension E mm	Dimension L1 mm	Dimension L2 mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
90 M12 GE	M12 x 1,5	Light grey	3.5	13	17	8	6	3000		100	0.170	**2032 37 8**
90 M16 GE	M16 x 1,5	Light grey	5	16	20	8	6	2600		100	0.190	**2032 38 0**
90 M20 GE	M20 x 1,5	Light grey	7	21	24	10	6	1600		100	0.270	**2032 38 2**
90 M25 GE	M25 x 1,5	Light grey	8.5	30	32	12	6	500		50	0.510	**2032 38 4**
90 M32 GE	M32 x 1,5	Light grey	13	34	39	14	8	250		25	0.690	**2032 38 6**
90 M40 GE	M40 x 1,5	Light grey	16	44	48	16	8	120		10	0.880	**2032 38 8**

PE Polyethylene /100 pc.

With perforation membranes, the opening D is pre-marked, but closed.
Grip seal to screw into metric thread to IEC 423.
With self-sealing cone at the end of the thread, therefore no connection thread sealing ring required.
Protection rating achievable with careful mounting: IP54.
With perforation membranes, the opening D is pre-marked, but closed.

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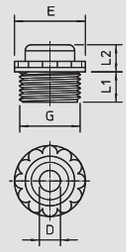
Screw-in nipple, PG thread with opening



Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
90 PG 9 OF	Pg 9	Light grey	2700		100	0.190	**2032 09 0**
90 PG11 OF	Pg 11	Light grey	2700		100	0.200	**2032 11 2**
90 PG13.5 OF	Pg 13,5	Light grey	1800		100	0.270	**2032 13 9**
90 PG16 OF	Pg 16	Light grey	1800		100	0.290	**2032 16 3**
90 PG21 OF	Pg 21	Light grey	900		50	0.510	**2032 20 1**

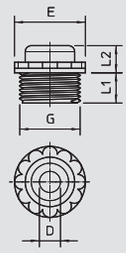
PE Polyethylene /100 pc.

With open cable entry.
Grip seal to screw into PG thread end to DIN 40430.
With self-sealing cone at the end of the thread, therefore no connection thread sealing ring required.
Protection rating achievable with careful mounting: IP54.
With open cable entry.

Important dimensions, screw-in nipple

G	D mm	SW mm	E mm	L1 mm	L2 mm
Pg 9	4	17	19	9.5	6
Pg 11	5	19	21	9.5	6
Pg 13.5	7	22	24	9.5	6
Pg 16	7	24	26	9.5	6
Pg 21	9	30	33	11.5	6

Screw-in nipple, PG thread with perforation membrane



Type	Thread	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
90 PG 9 DSMB	Pg 9	Light grey	2700		100	0.190	**2032 50 3**
90 PG11 DSMB	Pg 11	Light grey	2700		100	0.200	**2032 51 1**
90 PG13.5 DSMB	Pg 13,5	Light grey	1800		100	0.270	**2032 53 8**
90 PG16 DSMB	Pg 16	Light grey	1800		100	0.330	**2032 54 6**
90 PG21 DSMB	Pg 21	Light grey	500		50	0.510	**2032 55 4**
90 PG29 DSMB	Pg 29	Light grey	300		25	0.690	**2032 56 2**

PE Polyethylene /100 pc.

With perforation membrane, the opening D is pre-marked, but closed.
Grip seal to screw into PG thread to DIN 40430.
With self-sealing cone at the end of the thread, therefore no connection thread sealing ring required. Protection rating achievable with careful mounting: IP54.

Important dimensions, screw-in nipple

G	D mm	SW mm	E mm	L1 mm	L2 mm
Pg 9	4	17	19	9.5	6
Pg 11	5	19	21	9.5	6
Pg 13.5	7	22	24	9.5	6
Pg 16	7	24	26	9.5	6
Pg 21	9	30	33	11.5	6
Pg 29	15	37	40	11.5	6

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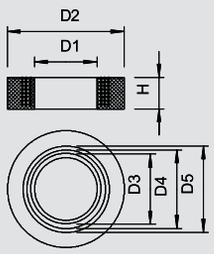


Cutting ring

Pg

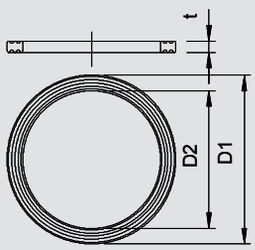
Type	Size	Size	Dimension D1	Dimension D2	Dimension D3	Dimension D4	Dimension D5	Dimension H		Pack.	Weight	Item No.
	mm		mm	mm	mm	mm	mm	mm		pcs	kg/100 pcs.	
107 B PG9	Pg 9	M16	5	13.3	7.5	10	0	5.5		100	0.240	**2029 10 3**
107 B PG11	Pg 11	–	7.5	16.5	10	12.5	0	6		100	0.230	**2029 11 1**
107 B PG13.5	Pg 13,5	M20	7.5	18.3	10	12.5	0	6		100	0.230	**2029 13 8**
107 B PG16	Pg 16	M25	7.5	20.4	10	12.5	15	7		100	0.320	**2029 16 2**
107 B PG21	Pg 21	–	10	25.9	13	16	19	8		100	0.590	**2029 21 9**
107 B PG29	Pg 29	M32	18	34.7	21	24	27	9.5		100	1.160	**2029 29 4**
107 B PG36	Pg 36	M40	24	44.7	27	30	33	12		50	1.940	**2029 36 7**
107 B PG42	Pg 42	M50	30	51.7	33	36	39	14		50	2.710	**2029 42 1**
107 B PG48	Pg 48	M63	36	56.9	39	42	45	14		50	3.490	**2029 48 0**

NBR-SBR Rubber mixture /100 pc.

Rubber cutting ring (cuttable sealing ring) to DIN 46320 for cone cable gland.

Important dimensions, cutting ring

G	D1	D2	D3	D4	D5	H	M
	mm	mm	mm	mm	mm	mm	
Pg 9	5	13.3	7.5	10	0	5.5	M16
Pg 11	7.5	16.5	10	12.5	0	6	-
Pg 13.5	7.5	18.3	10	12.5	0	6	M20
Pg 16	7.5	20.4	10	12.5	15	7	M25
Pg 21	10	25.9	13	16	19	8	-
Pg 29	18	34.7	21	24	27	9.5	M32
Pg 36	24	44.7	27	30	33	12	M40
Pg 42	30	51.7	33	36	39	14	M50
Pg 48	36	56.9	39	42	45	14	M63



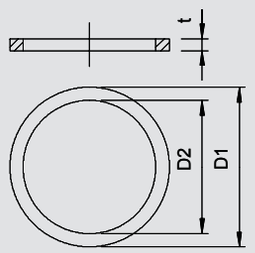
Connection thread sealing ring, metric

M

Type	Size	Dimension D1	Dimension D2	Dimension t	Shipping box		Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs		pcs	kg/100 pcs.	
107 F M12 PE	M12	16.3	12	1	12000		100	0.020	**2030 00 4**
107 F M16 PE	M16	20.9	16	1.1	2600		100	0.020	**2030 00 8**
107 F M20 PE	M20	25.1	20	1.1	1500		100	0.030	**2030 01 2**
107 F M25 PE	M25	31.3	25	1.4	1200		100	0.060	**2030 01 6**
107 F M32 PE	M32	37.6	32	1.7	1200		100	0.110	**2030 02 0**
107 F M40 PE	M40	49.1	40	1.7	1000		100	0.200	**2030 02 4**
107 F M50 PE	M50	60.1	50	2	1200		100	0.250	**2030 02 8**
107 F M63 PE	M63	73.8	63	2	1200		100	0.290	**2030 03 2**

PE Polyethylene /100 pc.

Connection thread sealing ring, suitable for all plastic cable glands with metric connection thread to
DIN EN 60423 or ISO 68. The internal diameters of the sealing rings are designed in such a way that they can be premounted in a captive manner.



M

Type	Size	Dimension D1	Dimension D2	Dimension t	Shipping box		Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs		pcs	kg/100 pcs.	
170 M16	M16	19.9	16	2	10000		100	0.040	**2088 42 8**
170 M20	M20	24	20	2	12000		100	0.070	**2088 43 6**
170 M25	M25	30	25	3	1800		100	0.170	**2088 44 4**
170 M32	M32	38	32	3	1200		100	0.270	**2088 45 2**
170 M40	M40	47	40	3	600		50	0.330	**2088 46 0**
170 M50	M50	57	50	3	600		50	0.440	**2088 47 9**

FA Fibre-proof material DIN 28091 /100 pc.

Asbestos-free material.
Connection thread sealing ring, Part 9, to DIN 46320, suitable for all brass cable glands with metric connection thread to DIN EN 60423 or ISO 68.
Colour: green, graphited on one side.

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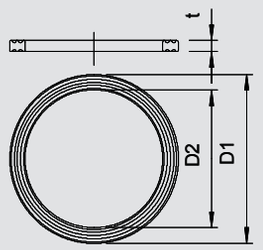
Pg

Connection thread sealing ring, PG

Type	Size	Dimension D1	Dimension D2	Dimension t	Shipping box	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	pcs	kg/100 pcs.	
107 F PG7 PE	Pg 7	16.5	12.1	1.6	2600	100	0.020	**2030 07 1**
107 F PG9 PE	Pg 9	19	14.7	1.6	2600	100	0.020	**2030 09 8**
107 F PG11 PE	Pg 11	23	18	1.8	1500	100	0.030	**2030 10 1**
107 F PG13.5 PE	Pg 13,5	25	19.8	1.8	1500	100	0.030	**2030 13 6**
107 F PG16 PE	Pg 16	27	21.8	1.8	1000	100	0.040	**2030 16 0**
107 F PG21 PE	Pg 21	34	27.5	2.2	1000	100	0.060	**2030 21 7**
107 F PG29 PE	Pg 29	44	36.2	2.2	1200	100	0.110	**2030 29 2**
107 F PG36 PE	Pg 36	55.5	46.2	2.7	1000	100	0.200	**2030 36 5**
107 F PG42 PE	Pg 42	63.5	53.2	3.2	1200	100	0.250	**2030 41 1**
107 F PG48 PE	Pg 48	69.5	58.5	3.2	1200	100	0.290	**2030 48 9**

PE Polyethylene /100 pc.

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.



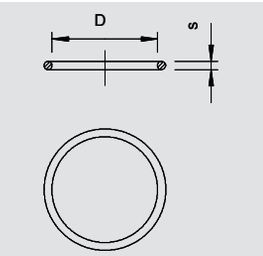
M

O sealing ring for metric connection thread

Type	Shipping box	Size	Dimension D	Dimension S	Pack.	Weight	Item No.
	pcs	mm	mm	mm	pcs	kg/100 pcs.	
171 M12	12000	M12	10	1.5	100	0.010	**2088 70 3**
171 M16	12000	M16	13	1.5	100	0.010	**2088 71 1**
171 M20	12000	M20	18	1.5	100	0.010	**2088 73 8**
171 M25	10000	M25	22	1.5	100	0.010	**2088 74 6**
171 M32	12000	M32	29	2	100	0.040	**2088 75 4**
171 M40	500	M40	36	2	50	0.050	**2088 76 2**
171 M50	500	M50	46	2	50	0.050	**2088 77 0**
171 M63	250	M63	59	2	25	0.060	**2088 78 9**

NBR Nitrile rubber /100 pc.

O sealing rings, suitable as connection thread sealing rings for all plastic and brass cable glands with metric connection thread to DIN EN 60423 or ISO 68. The rings can be captively pre-mounted.



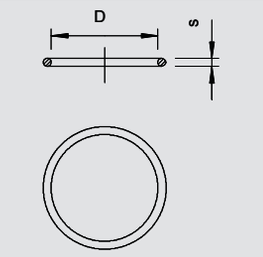
Pg

O sealing ring for PG connection thread

Type	Shipping box	Size	Dimension D	Dimension S	Pack.	Weight	Item No.
	pcs	mm	mm	mm	pcs	kg/100 pcs.	
171 PG 9	12000	Pg 9	13	1.5	100	0.010	**2088 81 9**
171 PG11	12000	Pg 11	16	1.5	100	0.010	**2088 82 7**
171 PG13.5	12000	Pg 13,5	18	1.5	100	0.010	**2088 83 5**
171 PG16	10000	Pg 16	20	1.5	100	0.010	**2088 84 3**
171 PG21	12000	Pg 21	25	2	100	0.030	**2088 85 1**
171 PG29	12000	Pg 29	33	2	100	0.040	**2088 87 8**
171 PG36	750	Pg 36	43	2	50	0.050	**2088 88 6**
171 PG42	500	Pg 42	50	2	50	0.050	**2088 89 4**

NBR Nitrile rubber /100 pc.

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.



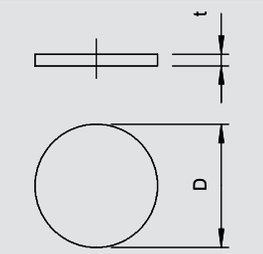
M

Dust protection plate, metric

Type	Size	Dimension D	Dimension t	Shipping box	Pack.	Weight	Item No.
	mm	mm	mm	pcs	pcs	kg/100 pcs.	
107 S VTEC M12	M12	12	1.5	12000	100	0.000	**2028 87 0**
107 S VTEC M16	M16	16	1.5	10000	100	0.000	**2028 87 3**
107 S VTEC M20	M20	20	1.5	12000	100	0.000	**2028 87 5**
107 S VTEC M25	M25	25	1.5	1500	100	0.010	**2028 87 7**
107 S VTEC M32	M32	32	1.5	1000	100	0.010	**2028 88 0**
107 S VTEC M40	M40	40	1.5	1200	100	0.020	**2028 88 3**
107 S VTEC M50	M50	50	1.5	1000	100	0.040	**2028 88 5**

ZPE Cellular polyethylene /100 pc.

Cellular polyethylene.
Small protective disc to protect the V-TEC VM and V-TEC VM 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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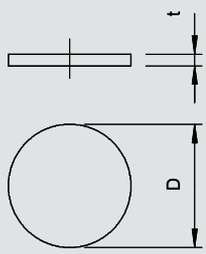


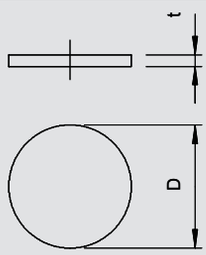
Dust protection plate, PG

Pg

Type	Shipping box pcs	Size mm	Dimension D mm	Dimension t mm	Pack. pcs	Weight kg/100 pcs.	Item No.
107 S VTEC PG7	12000	Pg 7	11	1.5	100	0.000	**2028 89 1**
107 S VTEC PG9	12000	Pg 9	14	1.5	100	0.000	**2028 90 5**
107 S VTEC PG11	12000	Pg 11	16.5	1.5	100	0.000	**2028 91 3**
107 S VTEC PG13	10000	Pg 13,5	18.5	2	100	0.000	**2028 92 1**
107 S VTEC PG16	8000	Pg 16	21	2	100	0.010	**2028 94 8**
107 S VTEC PG21	12000	Pg 21	26.5	2	100	0.010	**2028 95 6**
107 S VTEC PG29	1000	Pg 29	34.5	2	100	0.020	**2028 96 4**
107 S VTEC PG36	1200	Pg 36	44	3	100	0.040	**2028 97 2**
107 S VTEC PG42	1200	Pg 42	50	3	100	0.050	**2028 98 0**
107 S VTEC PG48	1200	Pg 48	56	3	100	0.060	**2028 99 9**

ZPE Cellular polyethylene /100 pc.

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.



Sealing plate, PG

Pg

Type	Dimension t mm	Shipping box pcs	Size mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
107 V PG 7 PVC	0.5	12000	Pg 7	11	100	0.010	**2029 70 7**
107 V PG 9 PVC	0.5	12000	Pg 9	13.5	100	0.020	**2029 71 5**
107 V PG11 PVC	0.5	10000	Pg 11	16.5	100	0.030	**2029 72 3**
107 V PG13.5 PVC	0.5	10000	Pg 13,5	18.5	100	0.040	**2029 73 1**
107 V PG16 PVC	0.5	8000	Pg 16	20.5	100	0.050	**2029 75 8**
107 V PG21 PVC	0.5	12000	Pg 21	26	100	0.080	**2029 76 6**
107 V PG29 PVC	1	1000	Pg 29	35	100	0.140	**2029 77 4**

PVC Polyvinylchloride /100 pc.

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.

Electrical insulating and sealing compound

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
115 GR-GN	Natural	90		10	11.020	**2340 03 8**

/100 pc.

In rods.
Permanently elastic, fibre-free sealing kit on a polymer and a mineral basis to fill cavities in installations, e.g. cable glands or similar components, to prevent the entry of dirt and water,
Colour: Natural
Characteristics of the sealing kit:
- Halogen-, acid- and silicone-free
- Can also be processed at low temperatures
- Permanent heat resistance to +80 °C
- Corrosion-resistant
- Low water consumption
- Good insulation properties
- Puncture strength 16 kV/mm to VDE 0291 Part 2
- Can be stored almost indefinitely

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Cable fastening systems, brass

	Cap nut cable gland	Metric thread	246
		PG thread	247
		EMC metric EMC spring contact, metric	248 248
	Cone cable gland	Metric thread	249
		PG thread	249
		Cutting ring	250
		Small sealing ring Large sealing ring	253 254
		Strain relief	254
	Locknuts	Metric thread PG thread	256 256
	Cable gland system accessories	Screw plug Pressure screw Expansion piece Reduction Adapter Cutting ring Pressure ring O sealing ring Dust protection plate Sealing plate	257 257 258 259 260 262 262 263 263 264

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Cable gland, metric thread

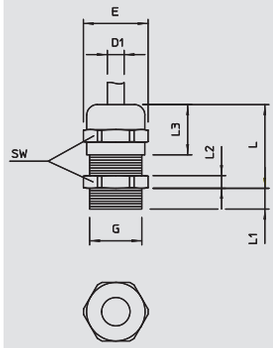
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM12 MS	M12 x 1,5	500		50	1.200	**2086 01 8**
V-TEC VM16 MS	M16 x 1,5	600		50	1.640	**2086 02 4**
V-TEC VM20 MS	M20 x 1,5	250		25	3.140	**2086 03 0**
V-TEC VM25 MS	M25 x 1,5	250		25	4.260	**2086 03 6**
V-TEC VM32 MS	M32 x 1,5	160		20	7.160	**2086 04 2**
V-TEC VM40 MS	M40 x 1,5	60		5	12.240	**2086 04 8**
V-TEC VM50 MS	M50 x 1,5	45		5	22.700	**2086 05 4**
V-TEC VM63 MS	M63 x 1,5	40		5	30.300	**2086 06 0**

CuZn Brass N Nickel-plated /100 pc.

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 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.

Important dimensions, brass cable gland

G	D1 mm	SW mm	E mm	L max. mm	L1 mm
M12 x 1.5	3–6	14	15.5	20	5
M16 x 1.5	5–9	17	19	24	5
M20 x 1.5	9–13	22	24	27	6
M25 x 1.5	11–16	27	30	29.5	7
M32 x 1.5	14–21	34	36	30	8
M40 x 1.5	19–27	43	46	33	8
M50 x 1.5	24–35	55	60	38.5	9
M63 x 1.5	32–42	65	70	44.5	10



Cable gland, long metric thread

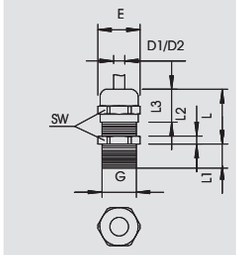
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM LM12 MS	M12 x 1,5	500		50	1.300	**2086 11 1**
V-TEC VM LM16 MS	M16 x 1,5	600		50	1.940	**2086 11 7**
V-TEC VM LM20 MS	M20 x 1,5	300		25	3.360	**2086 12 3**
V-TEC VM LM25 MS	M25 x 1,5	250		25	4.800	**2086 12 9**
V-TEC VM LM32 MS	M32 x 1,5	120		10	7.840	**2086 13 5**
V-TEC VM LM40 MS	M40 x 1,5	60		5	13.400	**2086 14 1**
V-TEC VM LM50 MS	M50 x 1,5	45		5	24.000	**2086 14 7**
V-TEC VM LM63 MS	M63 x 1,5	40		5	32.100	**2086 15 3**
V-TEC VM LM75MS1	M75 x 1,5	3		3	112.300	**2086 15 6**
V-TEC VM LM75MS2	M75 x 1,5	3		3	98.200	**2086 15 9**

CuZn Brass N Nickel-plated /100 pc.

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. For thicker housing wall thicknesses in conjunction with locknuts. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar for 1 hr.
With long connection thread.
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D1 mm	SW mm	E mm	L max. mm	L1 mm
M12 x 1.5	3–6	14	15.5	20	10
M16 x 1.5	5–9	17	19	24	10
M20 x 1.5	9–13	22	24	27	10
M25 x 1.5	11–16	27	30	29.5	11
M32 x 1.5	14–21	34	36	30	13
M40 x 1.5	19–27	43	46	33	13
M50 x 1.5	24–35	55	60	38.5	14
M63 x 1.5	32–42	65	65	44.5	14
M75 x 1.5	48 - 55	90	97	42	18
M75 x 1.5	53 - 60	90	97	42	18



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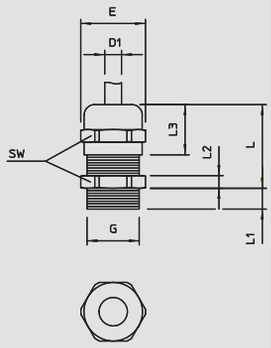


Cable gland, PG thread

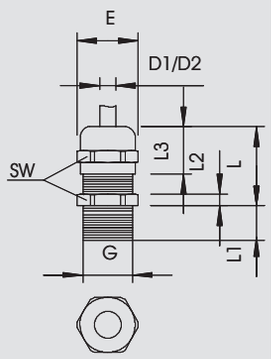
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC PG7 MS	Pg 7	500		50	1.000	**2085 60 7**
V-TEC PG9 MS	Pg 9	600		50	1.600	**2085 61 5**
V-TEC PG11 MS	Pg 11	600		50	2.300	**2085 62 3**
V-TEC PG13 MS	Pg 13,5	500		50	2.800	**2085 63 1**
V-TEC PG16 MS	Pg 16	300		25	3.400	**2085 65 8**
V-TEC PG21 MS	Pg 21	200		25	6.000	**2085 66 6**
V-TEC PG29 MS	Pg 29	120		20	13.000	**2085 67 4**
V-TEC PG36 MS	Pg 36	60		10	21.000	**2085 68 2**
V-TEC PG42 MS	Pg 42	15		5	23.500	**2085 69 0**
V-TEC PG48 MS	Pg 48	40		5	31.500	**2085 70 4**

CuZn Brass N Nickel-plated /100 pc.

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.

Important dimensions, brass cable gland

G	D1 mm	D2 mm	SW mm	E mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 7	2.5–6.5	3–6.5	14	15.5	20	5	3	12
Pg 9	2.5–8	3.5–8	17	18.9	22	6	3	14
Pg 11	3.5–10	4.5–10	20	22.2	24	6	3	15
Pg 13.5	5–12	6–12	22	24.4	25	6.5	3.5	15
Pg 16	7–14	7–14	24	26.7	27	6.5	4	17
Pg 21	9–18	12–18	30	33.5	33	7	4.5	20
Pg 29	14–25	17–25	40	43.5	39	8	5	23.5
Pg 36	18–32	20–32	50	54	49	9	5.5	29
Pg 42	24–38	26–38	57	61	52	10	6	31
Pg 48	30–44	30–44	64	69	52.5	10	6.5	31



Cable gland, long PG thread

Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC L PG7 MS	Pg 7	600		50	1.130	**2085 72 0**
V-TEC L PG9 MS	Pg 9	600		50	1.740	**2085 73 9**
V-TEC L PG11 MS	Pg 11	600		50	2.550	**2085 74 7**
V-TEC L PG13 MS	Pg 13,5	200		50	3.030	**2085 75 5**
V-TEC L PG16 MS	Pg 16	300		25	3.660	**2085 76 3**
V-TEC L PG21 MS	Pg 21	200		25	6.580	**2085 77 1**
V-TEC L PG29 MS	Pg 29	100		10	13.660	**2085 79 8**
V-TEC L PG48 MS	Pg 48	40		5	37.900	**2085 83 6**

CuZn Brass N Nickel-plated /100 pc.

Cable gland of cap-nut design with large sealing area, and strain relief and torsion protection for high sealing demands with long Pg connection thread to DIN 40430, for thicker housing wall thicknesses in connection with locknut.
Polyamide terminal insert.
Sealing ring of chloroprene/nitrile rubber.
O ring pre-mounted on connection thread.
Protection rating IP 68 at 5 bar: 1 hr.
Tested to VDE 0619.
With long connection thread.
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D1 mm	D2 mm	SW mm	E mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 7	2.5–6.5	3–6.5	14	15.5	20	10	3	12
Pg 9	2.5–8	3.5–8	17	18.9	22	10	3	14
Pg 11	3.5–10	4.5–10	20	22.2	24	10	3	15
Pg 13.5	5–12	6–12	22	24.4	25	10	3.5	16
Pg 16	7–14	7–14	24	26.7	27	10	4	17
Pg 21	9–18	12–18	30	33.5	33	12	4.5	20
Pg 29	14–25	17–25	40	43.5	39	12	5	23
Pg 48	30–44	30–44	64	69	52.5	15	6.5	31

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Cable gland, EMC, metric

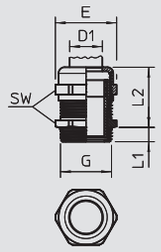
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM12 EMV	M12 x 1,5	500		50	1.360	**2086 20 3**
V-TEC VM16 EMV	M16 x 1,5	600		50	1.850	**2086 20 7**
V-TEC VM20 EMV	M20 x 1,5	250		25	3.470	**2086 21 1**
V-TEC VM25 EMV	M25 x 1,5	250		25	5.280	**2086 21 5**
V-TEC VM32 EMV	M32 x1,5	160		20	7.470	**2086 21 9**
V-TEC VM40 EMV	M40 x 1,5	60		5	12.880	**2086 22 3**
V-TEC VM50 EMV	M50 x 1,5	45		5	26.170	**2086 22 7**
V-TEC VM63 EMV	M63 x 1,5	45		5	33.990	**2086 23 1**

CuZn Brass N Nickel-plated /100 pc.

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.

Important dimensions, EMV brass cable gland

G	D1 mm	SW mm	E mm	L max. mm	L1 mm
M12 x 1.5	3–6	14	15.5	25	5
M16 x 1.5	5–9	17	19	30	5
M20 x 1.5	9–13	22	24	33.5	6
M25 x 1.5	11–16	17	30	36.5	7
M32 x 1.5	14–21	34	36	38	8
M40 x 1.5	19–27	43	46	49.5	8
M50 x 1.5	24–35	55	60	49.5	9
M63 x 1.5	32–42	65	70	52.5	10



Cable gland, EMC spring contact, metric

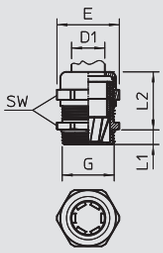
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
V-TEC VM16 EMV-K	M16x1,5	600		50	2.040	**2086 16 5**
V-TEC VM20 EMV-K	M20x1,5	250		25	3.560	**2086 16 9**
V-TEC VM25 EMV-K	M25x1,5	250		25	5.920	**2086 17 3**
V-TEC VM32 EMV-K	M32x1,5	160		20	9.880	**2086 17 7**
V-TEC VM40 EMV-K	M40x1,5	60		5	17.200	**2086 18 1**
V-TEC VM50 EMV-K	M50x1,5	45		5	13.740	**2086 18 5**
V-TEC VM63 EMV-K	M63x1,5	45		5	16.780	**2086 18 9**

CuZn Brass N Nickel-plated /100 pc.

With metric connecting thread to IEC 423 robust EMV cap-nut cable gland with large sealing area. The contacting between the gland and braided shield is made using a contact spring. 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.

Important dimensions, EMV brass cable gland

G	D1 mm	SW mm	E mm	L max. mm	L1 mm
M16 x 1.5	5–9	17	19	30	5
M20 x 1.5	9–13	22	24	33.5	6
M25 x 1.5	11–16	27	30	36.5	7
M32 x 1.5	14–21	34	36	38	8
M40 x 1.5	19–27	43	46	41	8
M50 x 1.5	24–35	55	60	49.5	9
M63 x 1.5	38–48	65	65	52.5	10



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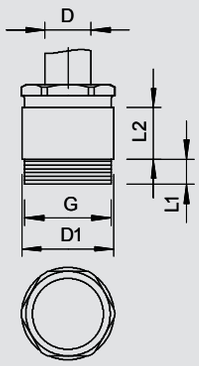


Cable gland, metric thread

IP 54 IP 65 M

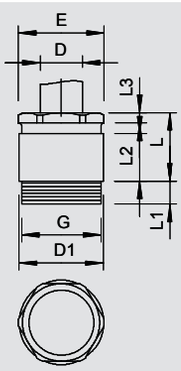
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
160 MS M12	M12 x 1,5	1600		50	1.060	**2079 80 1**
160 MS M16	M16 x 1,5	1500		50	1.810	**2079 82 8**
160 MS M20	M20 x 1,5	600		50	2.530	**2079 83 6**
160 MS M25	M25 x 1,5	300		25	3.390	**2079 84 4**
160 MS M32	M32 x 1,5	250		25	5.000	**2079 85 2**
160 MS M40	M40 x 1,5	120		10	8.720	**2079 86 0**
160 MS M50	M50 x 1,5	80		10	15.800	**2079 87 9**
160 MS M63	M63 x 1,5	50		5	21.600	**2079 88 7**

CuZn Brass N Nickel-plated /100 pc.

Cable gland with round intermediate connector, shape C5, 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 nominal diameter.
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D	D1	SW	E	L1	L2
	mm	mm	mm	mm	mm	mm
M12 x 1.5	5–7	14	13	14.3	7	10
M16 x 1.5	6–8	17	15	16.6	7	10.5
M20 x 1.5	8–10	22	20	22.2	7	12.5
M25 x 1.5	8–10	26	22	24.2	7	12.5
M32 x 1.5	17–19	34	28	31.2	8.5	15
M40 x 1.5	24–26	41	37	41	8.5	16.5
M50 x 1.5	31–33	54	47	50.5	9.5	19.5
M63 x 1.5	37–39	64		59	10.5	16.5



Cable gland, PG thread

IP 54 IP 65 Pg

Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
160 MS PG 7	Pg 7	1600		50	0.770	**2080 07 9**
160 MS PG 9	Pg 9	1500		50	1.270	**2080 09 5**
160 MS PG11	Pg 11	600		25	1.820	**2080 11 7**
160 MS PG13.5	Pg 13,5	600		50	2.240	**2080 13 3**
160 MS PG16	Pg 16	450		25	2.850	**2080 16 8**
160 MS PG21	Pg 21	250		25	4.320	**2080 21 4**
160 MS PG29	Pg 29	200		10	7.610	**2080 28 1**
160 MS PG36	Pg 36	120		10	14.400	**2080 36 2**
160 MS PG42	Pg 42	50		5	20.100	**2080 42 7**
160 MS PG48	Pg 48	50		5	28.650	**2080 48 6**

CuZn Brass N Nickel-plated /100 pc.

Cable gland with round intermediate connector, shape C5, to DIN 46320 with Pg connection thread to DIN 40430.
Pressure rings made of electrogalvanised and transparently passivated steel.
NR/SBR sealing ring.
With simple sealing ring, with small nominal diameter.
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D	D1	SW	E	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm
Pg 7	5–7	14	13	14.3	15	5	10	2.5
Pg 9	6–8	17	15	16.6	16	6	10.5	2.5
Pg 11	8–10	20	18	20	17	6	11	3
Pg 13.5	8–10	22	20	22.2	18	6.5	12.5	3
Pg 16	8–10	24	22	24.4	19	6.5	13.5	3
Pg 21	17–19	30	28	31.2	22	7	15	3.5
Pg 29	24–26	39	37	41	24	8	16.5	4
Pg 36	31–33	50	47	50.5	29	9	19.5	4.5
Pg 42	37–39	57	54	59.5	33	10	22	6
Pg 48	43–45	64	60	65	34	10	23	6

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IP 54 IP 65 Pg

Cable gland, long PG thread

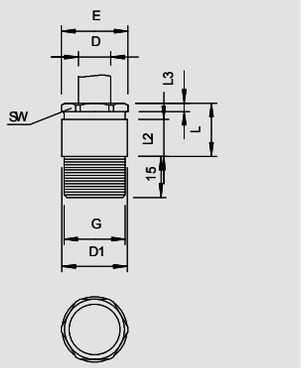
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
160 L MS PG21	Pg 21	250		25	5.000	**2081 21 0**

CuZn Brass N Nickel-plated /100 pc.

Cable gland with round intermediate connector, shape C5, to DIN 46320 with 15 mm long 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.
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D mm	D1 mm	SW mm	E mm	L max. mm	L2 mm	L3 mm
Pg 21	17–19	30	28	31.2	22	15	3.5



IP 54 IP 65 Pg

Cable gland, large sealing ring, PG

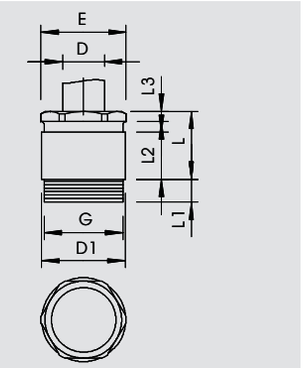
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
160 G MS PG 9	Pg 9	1500		50	1.060	**2080 70 2**
160 G MS PG13.5	Pg 13,5	600		50	2.350	**2080 74 5**

CuZn Brass N Nickel-plated /100 pc.

Cable gland with round intermediate connector, shape C5, 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 simple, large sealing ring, with larger internal diameter.
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D mm	D1 mm	SW mm	E mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 9	8–9.5	17	15	14.3	16	6	10.5	2.5
Pg 13.5	10–11.5	22	20	22.2	18	6.5	12.5	3



IP 54 IP 65 M

Cable gland, M cutting ring

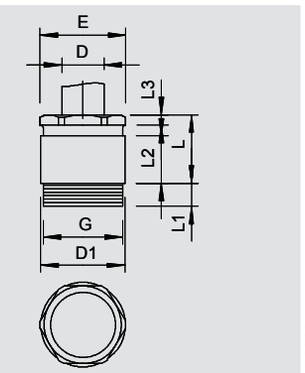
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
161 MS M16	M16 x 1,5	1500		50	1.810	**2079 90 5**
161 MS M32	M32 x 1,5	200		25	5.000	**2079 91 7**
161 MS M63	M63x1,5	50		5	21.600	**2079 92 9**

CuZn Brass N Nickel-plated /100 pc.

Cable gland with round intermediate connector, shape C5, 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.

Important dimensions, brass cable gland

G	D mm	D1 mm	SW mm	E mm	L1 mm	L2 mm
M16 x 1.5	5–9.5	17	15	16.6	7	17
M32 x 1.5	10–20.5	34	28	31.2	8.5	23.5
M63 x 1.5	30–42	64	54	59	10.5	35



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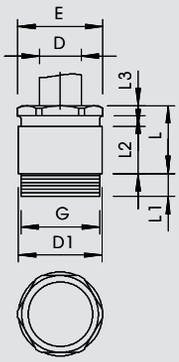


Cable gland, PG cutting ring

IP 54 IP 65 Pg

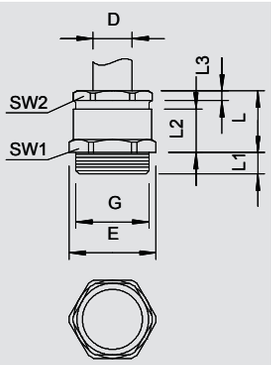
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
161 MS PG13.5	Pg 13,5	600		50	2.580	**2080 52 4**
161 MS PG16	Pg 16	450		25	3.010	**2080 54 0**
161 MS PG21	Pg 21	250		25	5.150	**2080 56 7**
161 MS PG29	Pg 29	200		10	8.960	**2080 58 3**

CuZn Brass N Nickel-plated /100 pc.

Cable gland with round intermediate connector, shape C5, 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.

Important dimensions, brass cable gland

G	D	D1	SW	E	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm
Pg 13.5	7.5–11.5	22	20	22.2	18	6.5	12.5	3
Pg 16	7.5–13.5	24	22	24.4	19	6.5	13.5	3
Pg 21	10–20.5	30	28	31.2	22	7	15	3.5
Pg 29	18–29	39	37	41	24	8	16.5	4



Cable gland, M cutting ring

IP 54 IP 65 M

Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
162 MS M16	M16 x 1,5	1500		50	1.810	**2083 71 2**
162 MS M20	M20 x 1,5	450		25	2.520	**2083 71 6**
162 MS M25	M25 x 1,5	250		25	3.390	**2083 72 0**
162 MS M32	M32 x 1,5	200		10	5.000	**2083 72 4**
162 MS M40	M40 x 1,5	120		10	8.720	**2083 72 8**
162 MS M50	M50 x 1,5	50		5	15.800	**2083 73 2**
162 MS M63	M63 x 1,5	50		5	21.600	**2083 73 6**

CuZn Brass N Nickel-plated /100 pc.

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.

Important dimensions, brass cable gland

G	D	SW1	SW2	E	L1	L2
	mm	mm	mm	mm	mm	mm
M16 x 1.5	5–9.5	17	15	18.9	7	16
M20 x 1.5	7.5–13.5	22	20	24.4	7	18
M25 x 1.5	10–20.5	32	28	35.5	8	22
M32 x 1.5	18–29	40	37	43.5	8.5	24
M40 x 1.5	24–31	50	47	54	8.5	29
M50 x 1.5	30–42	58	54	62.1	9.5	33
M63 x 1.5	36–47	65	60	69	10	10

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IP 54 IP 65 Pg

Cable gland, PG cutting ring

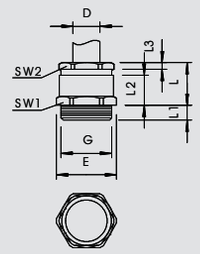
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
162 MS PG 9	Pg 9	1500		50	1.250	**2082 51 9**
162 MS PG11	Pg 11	600		50	1.960	**2082 50 0**
162 MS PG13.5	Pg 13,5	600		50	2.630	**2082 52 7**
162 MS PG16	Pg 16	450		25	3.190	**2082 54 3**
162 MS PG21	Pg 21	250		25	5.240	**2082 57 8**
162 MS PG29	Pg 29	200		10	9.260	**2082 59 4**
162 MS PG36	Pg 36	80		10	16.490	**2082 61 6**

CuZn Brass N Nickel-plated /100 pc.

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.

Important dimensions, brass cable gland

G	D mm	SW1 mm	SW2 mm	E mm	L max. mm	L1 mm	L2 mm	L3 mm
Pg 9	5–9.5	17	15	18.9	16	6	10.5	2.5
Pg 11	7.5–11.5	20	18	22.2	17	6	11	3
Pg 13.5	7.5–13.5	22	20	24.4	18	6.5	12.5	3
Pg 16	7.5–15.5	24	22	26.7	19	6.5	13.5	3
Pg 21	10–20.5	30	28	33.5	22	7	15	3.5
Pg 29	18–29	40	37	43.5	24	8	16.5	4
Pg 36	24–37	50	47	54	29	9	19.5	4.5



IP 54 IP 65 M

Cable gland, small sealing ring, M

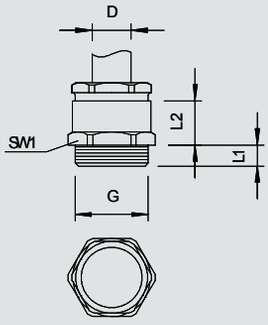
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
163 MS M12	M12 x 1,5	1600		50	0.850	**2083 61 2**
163 MS M16	M16 x 1,5	900		50	1.160	**2083 62 0**
163 MS M20	M20 x 1,5	450		25	2.210	**2083 63 9**
163 MS M25	M25 x 1,5	250		25	4.550	**2083 64 7**
163 MS M32	M32 x 1,5	200		10	8.210	**2083 65 5**
163 MS M40	M40 x 1,5	120		10	14.230	**2083 66 3**
163 MS M50	M50 x 1,5	50		5	20.540	**2083 67 1**
163 MS M63	M63 x 1,5	50		5	30.000	**2083 69 8**

CuZn Brass N Nickel-plated /100 pc.

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.

Important dimensions, brass cable gland

G	D mm	SW1 mm	SW2 mm	E mm	L1 mm	L2 mm
M12 x 1.5	5–7	14	13	15.5	7	10
M16 x 1.5	6–8	17	15	18.9	7	10.5
M20 x 1.5	8–10	22	20	24.4	7	12.5
M25 x 1.5	17–19	34	28	35.5	8	15
M32 x 1.5	24–26	42	37	43.5	8.5	16.5
M40 x 1.5	31–33	52	47	54	8.5	19.5
M50 x 1.5	37–39	57	54	62.1	10.5	23
M63 x 1.5	43–45	65	60	69	10.5	23



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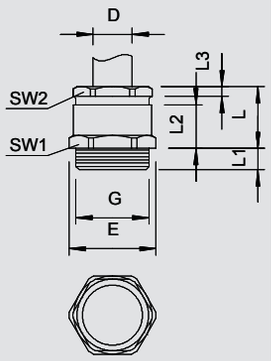


Cable gland, small sealing ring, PG

IP 54 IP 65 Pg

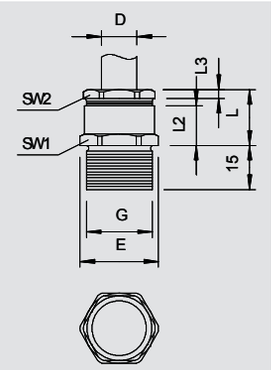
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
163 MS PG 7	Pg 7	1600		50	0.850	**2082 07 1**
163 MS PG 9	Pg 9	1500		50	1.160	**2082 09 8**
163 MS PG11	Pg 11	500		25	1.690	**2082 10 1**
163 MS PG13.5	Pg 13,5	450		25	2.210	**2082 13 6**
163 MS PG16	Pg 16	450		25	2.960	**2082 16 0**
163 MS PG21	Pg 21	250		25	4.550	**2082 21 7**
163 MS PG29	Pg 29	200		10	8.210	**2082 29 2**
163 MS PG36	Pg 36	120		10	14.230	**2082 36 5**
163 MS PG42	Pg 42	50		5	20.540	**2082 41 1**
163 MS PG48	Pg 48	50		5	30.050	**2082 48 9**

CuZn Brass N Nickel-plated /100 pc.

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 simple sealing ring, with small internal diameter.
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D	SW1	SW2	E	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm
Pg 7	5–7	14	13	15.5	15	5	10	2.5
Pg 9	6–8	17	15	18.9	16	6	10.5	2.5
Pg 11	8–10	20	18	22.2	17	6	11	3
Pg 13.5	8–10	22	20	24.4	18	6.5	12	3
Pg 16	8–10	24	22	26.7	19	6.5	13.5	3
Pg 21	17–19	30	28	33.5	22	7	15	3.5
Pg 29	24–26	40	37	43.5	24	8	16.5	4
Pg 36	31–33	50	47	54	29	9	19.5	4.5
Pg 42	37–39	57	54	61	33	10	22	6
Pg 48	43–45	64	60	69	34	10	23	6



Cable gland, long PG thread

IP 54 IP 65 Pg

Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
163 L MS PG 9	Pg 9	1200		50	1.420	**2083 09 4**
163 L MS PG11	Pg 11	500		50	2.100	**2083 11 6**
163 L MS PG13	Pg 13,5	500		50	2.580	**2083 13 2**
163 L MS PG16	Pg 16	300		25	3.010	**2083 16 7**
163 L MS PG21	Pg 21	250		25	5.310	**2083 21 3**
163 L MS PG29	Pg 29	200		10	10.120	**2083 29 9**

CuZn Brass N Nickel-plated /100 pc.

Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with 15 mm long 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.
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D	SW1	SW2	E	L max.	L2	L3
	mm	mm	mm	mm	mm	mm	mm
Pg 9	6–8	17	15	18.9	16	10.5	2.5
Pg 11	8–10	20	18	22.2	17	11	3
Pg 13.5	8–10	22	20	24.4	18	12.5	3
Pg 16	8–10	24	22	26.7	19	13.5	3
Pg 21	17–19	30	28	33.5	22	15	3.5
Pg 29	24–26	40	37	43.5	24	16.5	4

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IP 54 IP 65 Pg

Cable gland, large sealing ring, PG

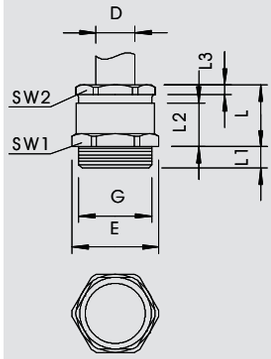
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
163 G MS PG 9	Pg 9	1500		50	1.250	**2082 70 5**
163 G MS PG13.5	Pg 13,5	450		25	2.400	**2082 72 1**

CuZn Brass N Nickel-plated /100 pc.

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 simple sealing ring, with larger internal diameter.
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D	SW1	SW2	E	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm
Pg 9	8–9.5	17	15	18.9	16	6	10.5	2.5
Pg 13.5	11–13	22	20	24.4	18	6.5	12.5	3



IP 54 IP 65 Pg

Cable gland, PG strain relief

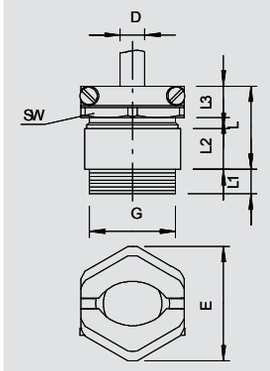
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
158 MS PG11	Pg 11	200		50	3.200	**2045 11 7**
158 MS PG16	Pg 16	250		25	5.480	**2045 16 8**
158 MS PG29	Pg 29	100		10	11.480	**2045 28 1**
158 MS PG36	Pg 36	50		5	21.780	**2045 36 2**

CuZn Brass N Nickel-plated /100 pc.

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 electrogalvaised 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 round intermediate connector (similar to shape C 5 to DIN 46320).
* Prices according to DEL notation.

Important dimensions, brass cable gland

G	D	SW	E	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm
Pg 11	8–10	22	24	25	6	11	11.3
Pg 16	8–10	26	29	28	6.5	13.5	11.8
Pg 29	24–26	42	46	34	8	16.5	13.8
Pg 36	31–33	52	57	40	9	19.5	15.8



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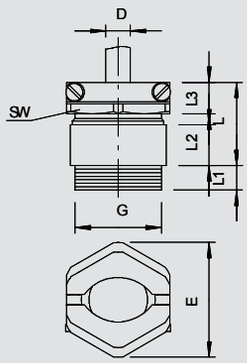

Cable gland, PG strain relief

Type	Thread	Surface finish	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
159 MS PG 7	Pg 7	Nickel-plated	900		50	1.960	**2046 07 5**
159 MS PG 9	Pg 9	Nickel-plated	600		50	2.460	**2046 09 1**
159 MS PG11	Pg 11	Nickel-plated	200		50	3.250	**2046 11 3**
159 MS PG13.5	Pg 13,5	Nickel-plated	200		50	3.830	**2046 12 1**
159 MS PG16	Pg 16	Nickel-plated	250		25	5.700	**2046 16 4**
159 MS PG21	Pg 21	Nickel-plated	100		25	7.590	**2046 21 0**
159 MS PG29	Pg 29	Nickel-plated	100		10	14.970	**2046 29 6**
159 MS PG36	Pg 36	Nickel-plated	50		5	22.030	**2046 36 9**
159 MS PG42	Pg 42	Nickel-plated	15		5	41.070	**2046 42 3**
159 MS PG48	Pg 48	Nickel-plated	40		4	46.250	**2046 48 2**

CuZn Brass N Nickel-plated /100 pc.

IP 54 IP 65 Pg

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.

Important dimensions, brass cable gland

G	D	SW1	SW2	E	L max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm	mm
Pg 7	5–7	14	16	17.5	22	5	10	9.3
Pg 9	6–8	17	19	20.5	24	6	10.5	10.6
Pg 11	8–10	20	22	24.5	25	6	11	11.3
Pg 13.5	8–10	22	24	27	26	6.5	12.5	11.3
Pg 16	8–10	24	26	29	28	6.5	13.5	11.8
Pg 21	17–19	30	33	37	32	7	15	13.3
Pg 29	24–26	40	42	46.5	34	8	16.5	13.8
Pg 36	31–33	50	52	57	40	9	19.5	15.8
Pg 42	37–39	57	59	65	43	10	22	16.3
Pg 48	43–45	64	64	70	44	10	23	16.3

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Locknuts

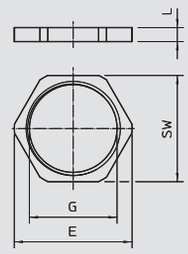
M

Locknut, metric thread

Type	Thread	SW mm	Dimension E mm	Dimension L mm		Pack. pcs	Weight kg/100 pcs.	Item No.
169 MS M12	M12 x 1,5	15	16.6	3		100	0.220	**2091 60 7**
169 MS M16	M16 x 1,5	20	22.1	2.8		100	0.310	**2091 61 5**
169 MS M20	M20 x 1,5	24	25.6	3		100	0.580	**2091 62 3**
169 MS M25	M25 x 1,5	30	33.2	3.5		100	0.880	**2091 63 1**
169 MS M32	M32 x 1,5	35	38.7	4		100	1.120	**2091 65 8**
169 MS M40	M40 x 1,5	45	49.8	4.5		50	1.920	**2091 66 6**
169 MS M50	M50 x 1,5	55	66.4	5.5		50	3.070	**2091 67 4**
169 MS M63	M63 x 1,5	70	77.6	6		25	5.720	**2091 68 2**
169 MS M75	M75 x 1,5	90	100	8		5	16.800	**2091 68 5**

CuZn Brass N Nickel-plated /100 pc.

Locknuts DIN 46319 with metric thread IEC 423.
* Price according to DEL notation.



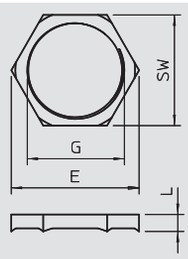
M

Locknut, metric thread with cutting teeth

Type	Thread	SW mm	Dimension E mm	Dimension L mm		Pack. pcs	Weight kg/100 pcs.	Item No.
169 MSS M12	M 12x1,5	15	17.3	4.5		50	–	**2091 70 5**
169 MSS M16	M 16x1,5	19	21.9	4.5		50	–	**2091 70 9**
169 MSS M20	M 20x1,5	24	27.7	4.5		50	–	**2091 71 3**
169 MSS M25	M 25x1,5	30	34.6	4.5		50	–	**2091 71 7**
169 MSS M32	M 32x1,5	36	41.5	4.5		50	–	**2091 72 1**
169 MSS M40	M 40x1,5	46	53.1	5		25	–	**2091 72 5**
169 MSS M50	M 50x1,5	60	69.2	5		25	–	**2091 72 9**
169 MSS M63	M 63x1,5	70	80.8	6		25	–	**2091 73 3**

CuZn Brass N Nickel-plated /100 pc.

Locknuts, part M to DIN 46320 with Pg thread to DIN 40430. * Price according to DEL notation.



Pg

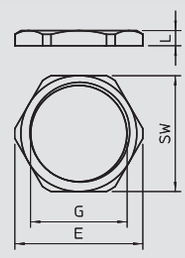
Locknut, PG thread

Type	Thread	SW mm	Dimension E mm	Dimension L mm		Pack. pcs	Weight kg/100 pcs.	Item No.
169 MS PG 7	Pg 7	15	16.6	2.8		100	0.180	**2091 07 0**
169 MS PG 9	Pg 9	18	20	2.8		100	0.260	**2091 09 7**
169 MS PG11	Pg 11	21	23.5	3		100	0.290	**2091 11 9**
169 MS PG13.5	Pg 13,5	23	25.5	3		100	0.360	**2091 13 5**
169 MS PG16	Pg 16	26	29	3		100	0.460	**2091 15 1**
169 MS PG21	Pg 21	32	35.5	3.5		100	0.720	**2091 21 6**
169 MS PG29	Pg 29	41	45	4		100	1.320	**2091 29 1**
169 MS PG36	Pg 36	51	56	5		50	2.100	**2091 36 4**
169 MS PG42	Pg 42	60	65	5		50	3.260	**2091 42 9**
169 MS PG48	Pg 48	64	69	5.5		25	3.270	**2091 48 8**

CuZn Brass N Nickel-plated /100 pc.

Locknuts, part M to DIN 46320 with Pg thread to DIN 40430. * Price according to DEL notation.

Important dimensions, brass locknut



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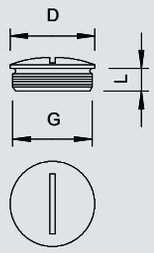
Always indicate the item number when ordering.



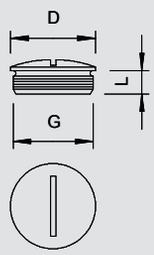
Screw plug, metric thread

M

Type	Shipping box pcs	Thread	Dimension D mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
168 MS M12	3000	M12 x 1,5	16	5	100	0.390	**2090 51 1**
168 MS M16	2000	M16 x 1,5	20	6	100	0.640	**2090 53 8**
168 MS M20	1000	M20 x 1,5	22	6.5	100	0.930	**2090 54 6**
168 MS M25	500	M25 x 1,5	28	7	50	1.850	**2090 55 4**
168 MS M32	200	M32 x 1,5	35	8	50	2.810	**2090 56 2**
168 MS M40	100	M40 x 1,5	45	8	50	5.290	**2090 57 0**
168 MS M50	100	M50 x 1,5	55	9	25	6.310	**2090 58 9**
168 MS M63	50	M63 x 1,5	68	10	25	12.570	**2090 59 7**

CuZn Brass N Nickel-plated /100 pc.

Screw plug in accordance with DIN 46320, with metric thread to DIN EN 60423 or ISO 68.
* Prices according to DEL notation.



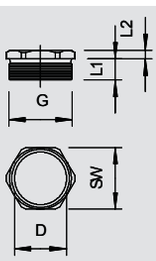
Screw plug, PG thread

Pg

Type	Shipping box pcs	Thread	Dimension D mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
168 MS PG 7	3000	Pg 7	14	5	100	0.410	**2090 07 4**
168 MS PG 9	2000	Pg 9	17	6	100	0.530	**2090 09 0**
168 MS PG11	1000	Pg 11	20	6	100	0.840	**2090 11 2**
168 MS PG13	1000	Pg 13,5	22	6.5	100	0.930	**2090 13 9**
168 MS PG16	1000	Pg 16	24	6.5	100	1.300	**2090 16 3**
168 MS PG21	500	Pg 21	30	7	50	2.420	**2090 20 1**
168 MS PG29	200	Pg 29	39	8	50	4.310	**2090 29 5**
168 MS PG36	100	Pg 36	50	9	50	7.800	**2090 36 8**
168 MS PG42	100	Pg 42	57	10	25	11.710	**2090 42 2**
168 MS PG48	50	Pg 48	64	10	25	15.260	**2090 48 1**

CuZn Brass N Nickel-plated /100 pc.

Screw plug in accordance with DIN 46320, with Pg thread to DIN EN 40430.
* Prices according to DEL notation.



Pressure screw, PG thread

Pg

Type	Thread	Dimension D mm	SW mm	Dimension E mm	Dimension L1 mm	Dimension L2 mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
164 MS PG11	Pg 11	15	18	20	6	3	3000	100	0.590	**2084 11 2**
164 MS PG13	Pg 13,5	17	20	22.2	7.5	3	1200	100	0.770	**2084 13 9**
164 MS PG16	Pg 16	18.5	22	24.4	7.5	3	1200	100	0.910	**2084 16 3**
164 MS PG21	Pg 21	24	28	31.2	8	3.5	600	50	1.560	**2084 20 1**
164 MS PG29	Pg 29	32	37	41	8	4	450	25	3.130	**2084 29 5**
164 MS PG36	Pg 36	42	47	50.5	9.5	4.5	300	25	4.520	**2084 36 8**
164 MS PG42	Pg 42	48	54	59	10	6	120	10	6.930	**2084 42 2**
164 MS PG48	Pg 48	52.5	60	65	11.5	6	120	10	10.050	**2084 48 1**

CuZn Brass N Nickel-plated /100 pc.

Pressure screw (Part 3) in accordance with DIN 46320, with Pg thread to DIN EN 40430.
* Prices according to DEL notation.

Important dimensions, brass pressure screw

G	D	SW	E	L1	L2
	mm	mm	mm	mm	mm
Pg 11	15	18	20	6	3
Pg 13.5	17	20	22.2	7.5	3
Pg 16	18.5	22	24.4	7.5	3
Pg 21	24	28	31.2	8	3.5
Pg 29	32	37	41	8	4
Pg 36	42	47	50.5	9.5	4.5
Pg 42	48	54	59	10	6
Pg 48	52.5	60	65	11.5	6

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Pg

Pressure screw PG strain relief

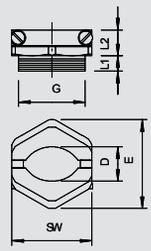
Type	Thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
157 MS PG 7	Pg 7	1000		100	1.200	**2013 06 1**
157 MS PG 9	Pg 9	1200		100	1.500	**2013 09 6**
157 MS PG11	Pg 11	1000		100	2.100	**2013 11 8**
157 MS PG13.5	Pg 13,5	1000		100	2.200	**2013 13 4**
157 MS PG16	Pg 16	300		50	3.400	**2013 16 9**
157 MS PG21	Pg 21	200		50	4.500	**2013 21 5**
157 MS PG29	Pg 29	100		25	6.800	**2013 29 0**

CuZn Brass N Nickel-plated /100 pc.

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.

Important dimensions, brass pressure screw

G	D mm	SW mm	E mm	L1 mm	L2 mm
Pg 7	6–7.5	16	17.5	5.5	9.3
Pg 9	7–9.5	19	20.5	6	10.6
Pg 11	8.5–11.5	22	24	6	11.3
Pg 13.5	10–13.5	24	27	6.5	11.3
Pg 16	11–15.5	26	30	6.5	11.8
Pg 21	14–20.5	33	38	7.5	13.3
Pg 29	20–29	42	46.5	8	13.8



M

Expansion piece, metric thread

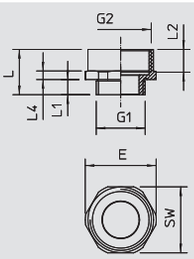
Type	External thread	Internal thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
165 ADA M12-16	M12	M16	600		50	1.030	**2088 28 0**
165 ADA M16-20	M16	M20	500		50	1.430	**2088 28 1**
165 ADA M20-25	M20	M25	600		50	2.090	**2088 28 2**
165 ADA M25-32	M25	M32	400		50	2.710	**2088 28 3**
165 ADA M32-40	M32	M40	200		25	5.180	**2088 28 4**
165 ADA M40-50	M40	M50	100		10	10.150	**2088 28 5**
165 ADA M 50-63	M50	M63	60		5	13.060	**2088 28 6**

CuZn Brass N Nickel-plated /100 pc.

The areas of application for brass cable glands range from junction boxes as a distribution/connection box up to large industrial applications for safe floor routing to switchgear cabinets with a control and distribution function. For high mechanical requirements, OBO can offer the entire family of extensions (Part K) to DIN 46320.
* Prices according to DEL notation.

Important dimensions, expansion

G1	G2	SW mm	E mm	L mm	L1 mm	L2 mm	D mm
M12	M16	18	20	16	5	7	8
M16	M20	22	24.5	16.7	5	8	12
M20	M25	27	29	18.5	6.4	9	15
M25	M32	34	35.8	20.7	7.4	8	20.8
M32	M40	42	45.5	23.8	8	10	26
M40	M50	52	58	30.5	8.2	12.5	33.8
M50	M63	65	69.9	33	9.2	16	43.4



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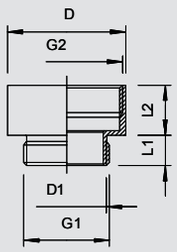


Expansion piece, PG thread

Pg

Type	External thread	Internal thread	Thread length	Shipping box		Pack.	Weight	Item No.
			mm	pcs		pcs	kg/100 pcs.	
165 MS EZ PG7-9	Pg 7	Pg 9	5	1000		100	0.690	**2088 02 9**
165 MS EZPG9-11	Pg 9	Pg 11	6	1200		100	0.860	**2088 04 5**
165 MS EZPG9-13	Pg 9	Pg 13,5	6	1000		100	1.110	**2088 06 1**
165 MS EZPG11-13	Pg 11	Pg 13,5	6	1000		100	1.140	**2088 09 6**
165 MS EZPG11-16	Pg 11	Pg 16	6	1000		100	1.520	**2088 12 6**
165 MS EZPG13-16	Pg 13,5	Pg 16	6.5	1000		100	1.590	**2088 14 2**
165 MS EZPG13-21	Pg 13,5	Pg 21	6.5	500		50	2.170	**2088 16 9**
165 MS EZPG16-21	Pg 16	Pg 21	6.5	500		50	2.150	**2088 18 5**
165 MS EZPG21-29	Pg 21	Pg 29	7	400		50	3.530	**2088 20 7**
165 MS EZPG29-36	Pg 29	Pg 36	8	50		25	7.110	**2088 22 3**
165 MS EZPG36-42	Pg 36	Pg 42	9	50		25	8.750	**2088 25 8**
165 MS EZPG42-48	Pg 42	Pg 48	10	80		10	14.560	**2088 27 4**

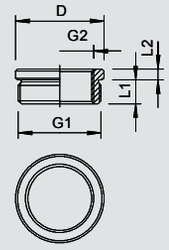
CuZn Brass N Nickel-plated /100 pc.

The areas of application for brass cable glands range from junction boxes as a distribution/connection box up to large industrial applications for safe floor routing to switchgear cabinets with a control and distribution function. For high mechanical requirements, OBO can offer the entire family of extensions (Part K) to DIN 46320.

* Prices according to DEL notation.

Important dimensions, expansion

G1	G2	D	D1	L1	L2
		mm	mm	mm	mm
Pg 7	Pg 9	17	10	5	10
Pg 9	Pg 11	20	12.5	6	10.5
Pg 9	Pg 13.5	22	12.5	6	11.5
Pg 11	Pg 13.5	22	15	6	11.5
Pg 11	Pg 16	24	15	6	12.5
Pg 13.5	Pg 16	24	17	6.5	12.5
Pg 13.5	Pg 21	30	17	6.5	14.5
Pg 16	Pg 21	30	18.5	6.5	14.5
Pg 21	Pg 29	39	24	7	16
Pg 29	Pg 36	50	32	8	19.5
Pg 36	Pg 42	57	42	9	22
Pg 42	Pg 48	64	48	10	23



Reduction, metric thread

M

Type	External thread	Internal thread	Dimension D	Thread length	Dimension L2	Shipping box		Pack.	Weight	Item No.
			mm	mm	mm	pcs		pcs	kg/100 pcs.	
167 R MS M16-12	M16	M12	20	6	8.5	2100		50	0.880	**2089 50 5**
167 R MS M20-12	M20	M12	24	6.5	9	1000		50	1.340	**2089 51 3**
167 R MS M20-16	M20	M16	24	6.5	9	1000		50	1.480	**2089 52 1**
167 R MS M25-16	M25	M16	30	7	10	500		50	3.220	**2089 54 8**
167 R MS M25-20	M25	M20	30	7	10	500		50	2.700	**2089 55 6**
167 R MS M32-20	M32	M20	39	8	11.5	200		50	6.120	**2089 56 4**
167 R MS M32-25	M32	M25	39	8	11.5	200		50	4.500	**2089 57 2**
167 R MS M40-25	M40	M25	50	6	12.5	100		25	9.960	**2089 58 0**
167 R MS M40-32	M40	M32	50	9	12.5	100		25	6.840	**2089 59 9**
167 R MS M50-32	M50	M32	57	10	14	100		25	16.300	**2089 60 2**
167 R MS M50-40	M50	M40	57	10	14	100		25	10.250	**2089 61 0**
167 R MS M63-40	M63	M40	64	10	14	40		10	30.080	**2089 62 9**
167 R MS M63-50	M63	M50	64	10	14	40		10	10.090	**2089 63 7**

CuZn Brass N Nickel-plated /100 pc.

Reduction (Part H) in accordance with DIN 46320, with metric thread to DIN EN 60423 or ISO 68.

* Prices according to DEL notation.

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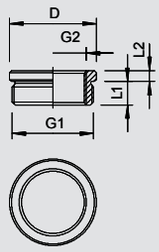
Pg

Reduction, PG thread

Type	External thread	Internal thread	Dimension D	Thread length	Dimension L2	Shipping box		Pack.	Weight	Item No.
			mm	mm	mm	pcs		pcs	kg/100 pcs.	
167 R MS PG9-7	Pg 9	Pg 7	17	6	2.5	1800		50	0.430	**2089 02 5**
167 R MS PG11-7	Pg 11	Pg 7	20	6	2.5	2100		50	1.030	**2089 04 1**
167 R MS PG11-9	Pg 11	Pg 9	20	6	2.5	1800		50	0.650	**2089 07 6**
167 R MS PG13-7	Pg 13,5	Pg 7	22	6.5	2.5	1000		50	1.520	**2089 09 2**
167 R MS PG13-9	Pg 13,5	Pg 9	22	6.5	2.5	1000		50	1.120	**2089 11 4**
167 R MS PG13-11	Pg 13,5	Pg 11	22	6.5	2.5	2100		50	0.470	**2089 13 0**
167 R MS PG16-9	Pg 16	Pg 9	24	6.5	3	1000		50	1.730	**2089 15 7**
167 R MS PG16-11	Pg 16	Pg 11	24	6.5	3	1000		50	1.050	**2089 17 3**
167 R MS PG16-13	Pg 16	Pg 13,5	24	6.5	3	900		50	0.660	**2089 20 3**
167 R MS PG21-11	Pg 21	Pg 11	30	7	3	500		50	2.960	**2089 23 8**
167 R MS PG21-13	Pg 21	Pg 13,5	30	7	3	500		50	2.520	**2089 25 4**
167 R MS PG21-16	Pg 21	Pg 16	30	7	3	600		50	1.960	**2089 27 0**
167 R MS PG29-16	Pg 29	Pg 16	39	8	3.5	200		50	6.560	**2089 29 7**
167 R MS PG29-21	Pg 29	Pg 21	39	8	3.5	200		50	4.270	**2089 31 9**
167 R MS PG36-21	Pg 36	Pg 21	50	9	3.5	100		25	11.660	**2089 33 5**
167 R MS PG36-29	Pg 36	Pg 29	50	9	3.5	100		25	6.980	**2089 35 1**
167 R MS PG42-36	Pg 42	Pg 36	57	10	4	100		25	6.750	**2089 40 8**
167 R MS PG48-36	Pg 48	Pg 36	64	10	4	50		25	12.840	**2089 42 4**
167 R MS PG48-42	Pg 48	Pg 42	64	10	4	50		25	6.230	**2089 44 0**

CuZn Brass N Nickel-plated /100 pc.

Reduction (Part H) to DIN 46320, with Pg thread to DIN 40430, as a transition from a PG thread hole to a smaller cable gland.
* Prices according to DEL notation.



M Pg

Adapter expansion M - PG

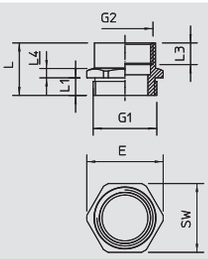
Type	External thread	Internal thread	Shipping box	Surface finish	Pack.	Weight	Item No.
			pcs		pcs	kg/100 pcs.	
165 ADA M12-PG7	M12	PG7	240	–	20	0.590	**2088 30 1**
165 ADA M16-PG9	M16	PG9	300	–	20	9.110	**2088 31 2**
165 ADA M16-PG11	M16	PG11	300	–	20	2.220	**2088 30 2**
165 ADA M20-PG11	M20	PG11	200	–	20	1.760	**2088 31 6**
165 ADA M20-PG13	M20	PG13,5	200	–	20	1.320	**2088 30 3**
165 ADA M20-PG16	M20	PG16	200	Nickel-plated	20	1.650	**2088 31 8**
165 ADA M25-PG16	M25	PG16	200	–	20	2.540	**2088 30 4**
165 ADA M25-PG21	M25	PG21	200	–	20	2.330	**2088 32 4**
165 ADA M32-PG29	M32	PG29	100	–	10	4.850	**2088 33 0**
165 ADA M40-PG29	M40	PG29	120	–	10	7.150	**2088 30 6**
165 ADA M50-PG42	M50	PG42	100	–	10	10.110	**2088 30 7**
165 ADA M63-PG48	M63	PG48	48	–	4	20.080	**2088 34 8**

CuZn Brass N Nickel-plated /100 pc.

Adapter for converting a metric threaded drill hole to a Pg threaded drill hole.

Important dimensions, adapter

G1	G2	SW	E	L	L1	L3	D
		mm	mm	mm	mm	mm	mm
M12	PG 7	14	15.5	16	6	9	8
M16	PG 9	-	-	-	-	-	-
M16	PG11	22	24.5	16	6	7.9	12.5
M20	PG11	22	24.5	17.6	6.5	10.2	15
M20	PG13.5	22	24.5	19	6.5	11.5	16
M20	PG16	14.9	23.9	19.6	6	9	11.5
M25	PG16	27	30	20.5	7	12.5	18.3
M25	PG21	30	33.5	22.2	7	13.5	20.5
M40	PG29	43	46.2	24.4	8	15	31.8
M50	PG42	57	60.8	31	9	20	44
M32	PG29	40	44	24.4	8	15	27.5
M63	PG48	65	69.8	33	10	21	52.2



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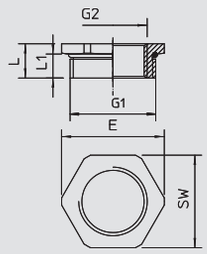


Adapter reduction M - PG

M Pg

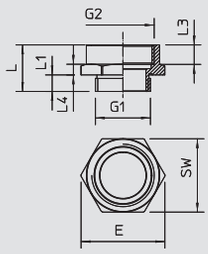
Type	External thread	Internal thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
165 ADA M16-PG7	M16	PG7	240		20	5.130	**2088 31 0**
165 ADA M20-PG9	M20	PG9	240		20	1.100	**2088 31 4**
165 ADA M25-PG11	M25	PG11	300		20	1.940	**2088 32 0**
165 ADA M25-PG13	M25	PG13,5	300		20	1.610	**2088 32 2**
165 ADA M32-PG16	M32	PG16	150		10	3.790	**2088 32 8**
165 ADA M32-PG21	M32	PG21	150		10	1.730	**2088 30 5**
165 ADA M40-PG21	M40	PG21	120		10	6.980	**2088 33 4**
165 ADA M50-PG29	M50	PG29	60		5	11.220	**2088 34 0**
165 ADA M63-PG36	M63	PG36	60		5	16.950	**2088 34 4**
165 ADA M63-PG42	M63	PG42	60		5	10.460	**2088 34 6**

CuZn Brass N Nickel-plated /100 pc.

Adapter for reducing a metric threaded drill hole to a smaller Pg threaded drill hole.

Important dimensions, adapter

G1	G2	SW mm	E mm	L mm	L1 mm
M16	PG 7	17	19	8	5
M20	PG 9	22	24.5	9	6
M25	PG11	27	30	10	7
M25	PG13.5	27	30	10	7
M32	PG16	34	36	11	8
M32	PG21	34	36	11	8
M40	PG21	43	46	12	8
M50	PG29	55	60	13	9
M63	PG36	65	69	14.2	10
M63	PG42	65	70	14.2	10



Adapter expansion PG - M

M Pg

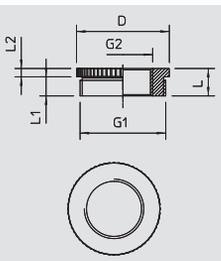
Type	External thread	Internal thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
165 ADA PG7-M12	PG7	M12	240		20	0.700	**2088 29 0**
165 ADA PG9-M16	PG9	M16	300		20	1.160	**2088 29 1**
165 ADA PG11-M16	PG11	M16	300		20	1.000	**2088 29 2**
165 ADA PG13-M20	PG13,5	M20	200		20	2.040	**2088 29 3**
165 ADA PG16-M20	PG16	M20	200		20	3.080	**2088 29 4**
165 ADA PG16-M25	PG16	M25	200		20	3.320	**2088 29 5**
165 ADA PG21-M25	PG21	M25	100		10	4.490	**2088 29 6**
165 ADA PG21-M32	PG21	M32	100		10	4.310	**2088 29 7**
165 ADA PG29-M40	PG29	M40	100		10	4.830	**2088 29 8**
165 ADA PG36-M50	PG36	M50	50		5	9.250	**2088 29 9**

CuZn Brass N Nickel-plated /100 pc.

Adapter for converting a Pg threaded drill hole to a larger metric threaded drill hole.

Important dimensions, adapter

G1	G2	SW mm	E mm	L mm	L1 mm	L3 mm	D mm
PG 7	M12	14	15	15	5	7.5	9
PG 9	M16	19	21	16	6	7.5	12
PG11	M16	20	22	17	6	10	12
PG13.5	M20	24	26	17.5	6.5	8.5	16
PG16	M20	27	29	17.5	6.5	8.3	18.4
PG16	M25	30	33.5	18.5	6.6	9.5	18.4
PG21	M25	32	35.5	19	7	10	23
PG21	M32	36	39	20	7	10.5	22.7
PG29	M40	43	46	21	8	10.8	32
PG36	M50	55	60	23	9	10.5	42



Adapter reduction PG - M

M Pg

Type	External thread	Internal thread	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
165 ADA PG29-M25	PG29	M25	200		20	5.730	**2088 28 9**

CuZn Brass N Nickel-plated /100 pc.

Adapter for converting a Pg threaded drill hole to a metric threaded drill hole.

Important dimensions, adapter

G1	G2	SW mm	E mm	L mm	L1 mm	D mm
PG29	M25	-	-	11.5	8	39

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Pg

Cutting ring

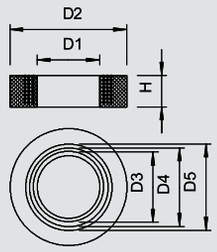
Type	Size	Size	Dimension D1	Dimension D2	Dimension D3	Dimension D4	Dimension D5	Dimension H		Pack.	Weight	Item No.
	mm		mm	mm	mm	mm	mm	mm		pcs	kg/100 pcs.	
107 B PG9	Pg 9	M16	5	13.3	7.5	10	0	5.5		100	0.240	**2029 10 3**
107 B PG11	Pg 11	–	7.5	16.5	10	12.5	0	6		100	0.230	**2029 11 1**
107 B PG13.5	Pg 13,5	M20	7.5	18.3	10	12.5	0	6		100	0.230	**2029 13 8**
107 B PG16	Pg 16	M25	7.5	20.4	10	12.5	15	7		100	0.320	**2029 16 2**
107 B PG21	Pg 21	–	10	25.9	13	16	19	8		100	0.590	**2029 21 9**
107 B PG29	Pg 29	M32	18	34.7	21	24	27	9.5		100	1.160	**2029 29 4**
107 B PG36	Pg 36	M40	24	44.7	27	30	33	12		50	1.940	**2029 36 7**
107 B PG42	Pg 42	M50	30	51.7	33	36	39	14		50	2.710	**2029 42 1**
107 B PG48	Pg 48	M63	36	56.9	39	42	45	14		50	3.490	**2029 48 0**

NBR-SBR Rubber mixture /100 pc.

Rubber cutting ring (cuttable sealing ring) to DIN 46320 for cone cable gland.

Important dimensions, cutting ring

G	D1	D2	D3	D4	D5	H	M
	mm	mm	mm	mm	mm	mm	
Pg 9	5	13.3	7.5	10	0	5.5	M16
Pg 11	7.5	16.5	10	12.5	0	6	-
Pg 13.5	7.5	18.3	10	12.5	0	6	M20
Pg 16	7.5	20.4	10	12.5	15	7	M25
Pg 21	10	25.9	13	16	19	8	-
Pg 29	18	34.7	21	24	27	9.5	M32
Pg 36	24	44.7	27	30	33	12	M40
Pg 42	30	51.7	33	36	39	14	M50
Pg 48	36	56.9	39	42	45	14	M63



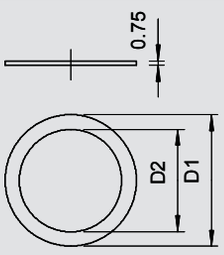
Pg

Pressure ring, PG thread

Type	Shipping box	Size	Dimension D1	Dimension D2	Pack.	Weight	Item No.
	pcs	mm	mm	mm	pcs	kg/100 pcs.	
107 D PG7 GTP	12000	Pg 7	11	8	100	0.020	**2027 07 0**
107 D PG9 GTP	10000	Pg 9	13.5	10	100	0.040	**2027 09 7**
107 D PG11 GTP	10000	Pg 11	16.5	12	100	0.060	**2027 11 9**
107 D PG13.5 GTP	12000	Pg 13,5	18.5	14	100	0.070	**2027 13 5**
107 D PG16 GTP	12000	Pg 16	20.5	16	100	0.070	**2027 15 1**
107 D PG21 GTP	5000	Pg 21	26	21	50	0.100	**2027 21 6**
107 D PG29 GTP	2500	Pg 29	35	30	25	0.140	**2027 29 1**

St Steel GTP Electrogalvanised, transparently passivated /100 pc.

Pressure ring, Part 7, to DIN 46320, suitable for plastic and brass glands to DIN 46320.



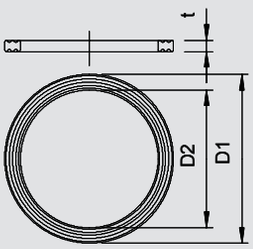
M

Connection thread sealing ring, metric

Type	Size	Dimension D1	Dimension D2	Dimension t	Shipping box		Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs		pcs	kg/100 pcs.	
107 F M12 PE	M12	16.3	12	1	12000		100	0.020	**2030 00 4**
107 F M16 PE	M16	20.9	16	1.1	2600		100	0.020	**2030 00 8**
107 F M20 PE	M20	25.1	20	1.1	1500		100	0.030	**2030 01 2**
107 F M25 PE	M25	31.3	25	1.4	1200		100	0.060	**2030 01 6**
107 F M32 PE	M32	37.6	32	1.7	1200		100	0.110	**2030 02 0**
107 F M40 PE	M40	49.1	40	1.7	1000		100	0.200	**2030 02 4**
107 F M50 PE	M50	60.1	50	2	1200		100	0.250	**2030 02 8**
107 F M63 PE	M63	73.8	63	2	1200		100	0.290	**2030 03 2**

PE Polyethylene /100 pc.

Connection thread sealing ring, suitable for all plastic cable glands with metric connection thread to
DIN EN 60423 or ISO 68. The internal diameters of the sealing rings are designed in such a way that they can be premounted in a captive manner.

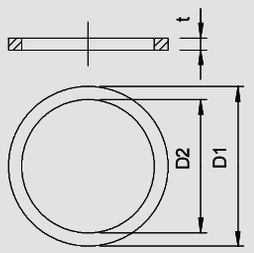


M

Type	Size	Dimension D1	Dimension D2	Dimension t	Shipping box		Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs		pcs	kg/100 pcs.	
170 M16	M16	19.9	16	2	10000		100	0.040	**2088 42 8**
170 M20	M20	24	20	2	12000		100	0.070	**2088 43 6**
170 M25	M25	30	25	3	1800		100	0.170	**2088 44 4**
170 M32	M32	38	32	3	1200		100	0.270	**2088 45 2**
170 M40	M40	47	40	3	600		50	0.330	**2088 46 0**
170 M50	M50	57	50	3	600		50	0.440	**2088 47 9**

FA Fibre-proof material DIN 28091 /100 pc.

Asbestos-free material.
Connection thread sealing ring, Part 9, to DIN 46320, suitable for all brass cable glands with metric connection thread to DIN EN 60423 or ISO 68.
Colour: green, graphited on one side.



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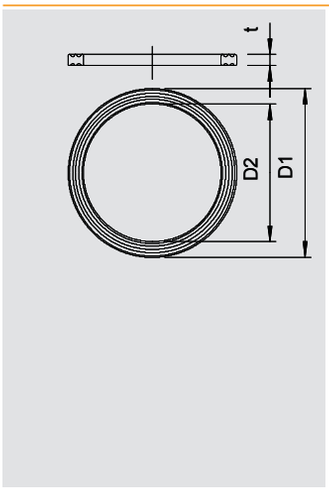


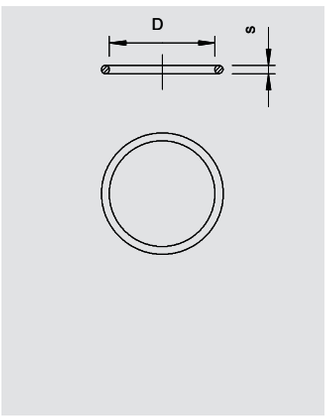
Connection thread sealing ring, PG

Pg

Type	Size	Dimension D1	Dimension D2	Dimension t	Shipping box		Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs		pcs	kg/100 pcs.	
107 F PG7 PE	Pg 7	16.5	12.1	1.6	2600		100	0.020	**2030 07 1**
107 F PG9 PE	Pg 9	19	14.7	1.6	2600		100	0.020	**2030 09 8**
107 F PG11 PE	Pg 11	23	18	1.8	1500		100	0.030	**2030 10 1**
107 F PG13.5 PE	Pg 13,5	25	19.8	1.8	1500		100	0.030	**2030 13 6**
107 F PG16 PE	Pg 16	27	21.8	1.8	1000		100	0.040	**2030 16 0**
107 F PG21 PE	Pg 21	34	27.5	2.2	1000		100	0.060	**2030 21 7**
107 F PG29 PE	Pg 29	44	36.2	2.2	1200		100	0.110	**2030 29 2**
107 F PG36 PE	Pg 36	55.5	46.2	2.7	1000		100	0.200	**2030 36 5**
107 F PG42 PE	Pg 42	63.5	53.2	3.2	1200		100	0.250	**2030 41 1**
107 F PG48 PE	Pg 48	69.5	58.5	3.2	1200		100	0.290	**2030 48 9**

PE Polyethylene /100 pc.

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.



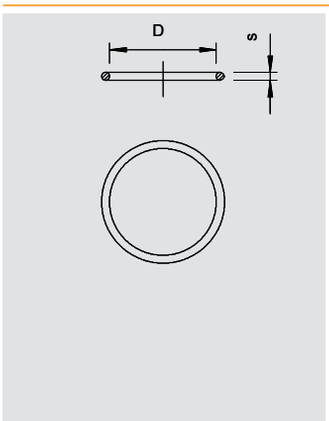
O sealing ring for metric connection thread

M

Type	Shipping box	Size	Dimension D	Dimension S	Pack.	Weight	Item No.
	pcs	mm	mm	mm	pcs	kg/100 pcs.	
171 M12	12000	M12	10	1.5	100	0.010	**2088 70 3**
171 M16	12000	M16	13	1.5	100	0.010	**2088 71 1**
171 M20	12000	M20	18	1.5	100	0.010	**2088 73 8**
171 M25	10000	M25	22	1.5	100	0.010	**2088 74 6**
171 M32	12000	M32	29	2	100	0.040	**2088 75 4**
171 M40	500	M40	36	2	50	0.050	**2088 76 2**
171 M50	500	M50	46	2	50	0.050	**2088 77 0**
171 M63	250	M63	59	2	25	0.060	**2088 78 9**

NBR Nitrile rubber /100 pc.

O sealing rings, suitable as connection thread sealing rings for all plastic and brass cable glands with metric connection thread to DIN EN 60423 or ISO 68. The rings can be captively pre-mounted.



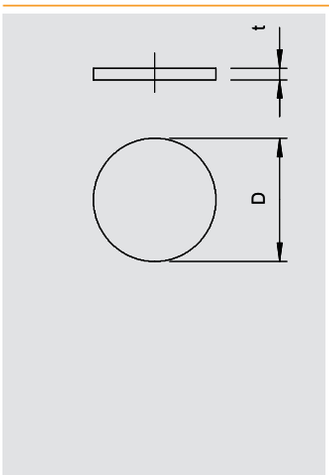
O sealing ring for PG connection thread

Pg

Type	Shipping box	Size	Dimension D	Dimension S	Pack.	Weight	Item No.
	pcs	mm	mm	mm	pcs	kg/100 pcs.	
171 PG 9	12000	Pg 9	13	1.5	100	0.010	**2088 81 9**
171 PG11	12000	Pg 11	16	1.5	100	0.010	**2088 82 7**
171 PG13.5	12000	Pg 13,5	18	1.5	100	0.010	**2088 83 5**
171 PG16	10000	Pg 16	20	1.5	100	0.010	**2088 84 3**
171 PG21	12000	Pg 21	25	2	100	0.030	**2088 85 1**
171 PG29	12000	Pg 29	33	2	100	0.040	**2088 87 8**
171 PG36	750	Pg 36	43	2	50	0.050	**2088 88 6**
171 PG42	500	Pg 42	50	2	50	0.050	**2088 89 4**

NBR Nitrile rubber /100 pc.

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.



Dust protection plate, metric

M

Type	Size	Dimension D	Dimension t	Shipping box		Pack.	Weight	Item No.
	mm	mm	mm	pcs		pcs	kg/100 pcs.	
107 S VTEC M12	M12	12	1.5	12000		100	0.000	**2028 87 0**
107 S VTEC M16	M16	16	1.5	10000		100	0.000	**2028 87 3**
107 S VTEC M20	M20	20	1.5	12000		100	0.000	**2028 87 5**
107 S VTEC M25	M25	25	1.5	1500		100	0.010	**2028 87 7**
107 S VTEC M32	M32	32	1.5	1000		100	0.010	**2028 88 0**
107 S VTEC M40	M40	40	1.5	1200		100	0.020	**2028 88 3**
107 S VTEC M50	M50	50	1.5	1000		100	0.040	**2028 88 5**

ZPE Cellular polyethylene /100 pc.

Cellular polyethylene.
Small protective disc to protect the V-TEC VM and V-TEC VM 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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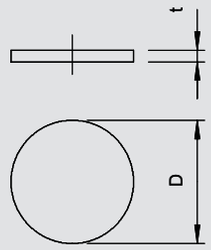
Pg

Dust protection plate, PG

Type	Shipping box pcs	Size mm	Dimension D mm	Dimension t mm	Pack. pcs	Weight kg/100 pcs.	Item No.
107 S VTEC PG7	12000	Pg 7	11	1.5	100	0.000	**2028 89 1**
107 S VTEC PG9	12000	Pg 9	14	1.5	100	0.000	**2028 90 5**
107 S VTEC PG11	12000	Pg 11	16.5	1.5	100	0.000	**2028 91 3**
107 S VTEC PG13	10000	Pg 13,5	18.5	2	100	0.000	**2028 92 1**
107 S VTEC PG16	8000	Pg 16	21	2	100	0.010	**2028 94 8**
107 S VTEC PG21	12000	Pg 21	26.5	2	100	0.010	**2028 95 6**
107 S VTEC PG29	1000	Pg 29	34.5	2	100	0.020	**2028 96 4**
107 S VTEC PG36	1200	Pg 36	44	3	100	0.040	**2028 97 2**
107 S VTEC PG42	1200	Pg 42	50	3	100	0.050	**2028 98 0**
107 S VTEC PG48	1200	Pg 48	56	3	100	0.060	**2028 99 9**

ZPE Cellular polyethylene /100 pc.

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.



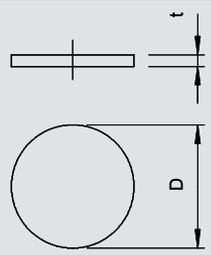
Pg

Sealing plate, PG

Type	Dimension t mm	Shipping box pcs	Size mm	Dimension D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
107 V PG 7 PVC	0.5	12000	Pg 7	11	100	0.010	**2029 70 7**
107 V PG 9 PVC	0.5	12000	Pg 9	13.5	100	0.020	**2029 71 5**
107 V PG11 PVC	0.5	10000	Pg 11	16.5	100	0.030	**2029 72 3**
107 V PG13.5 PVC	0.5	10000	Pg 13,5	18.5	100	0.040	**2029 73 1**
107 V PG16 PVC	0.5	8000	Pg 16	20.5	100	0.050	**2029 75 8**
107 V PG21 PVC	0.5	12000	Pg 21	26	100	0.080	**2029 76 6**
107 V PG29 PVC	1	1000	Pg 29	35	100	0.140	**2029 77 4**

PVC Polyvinylchloride /100 pc.

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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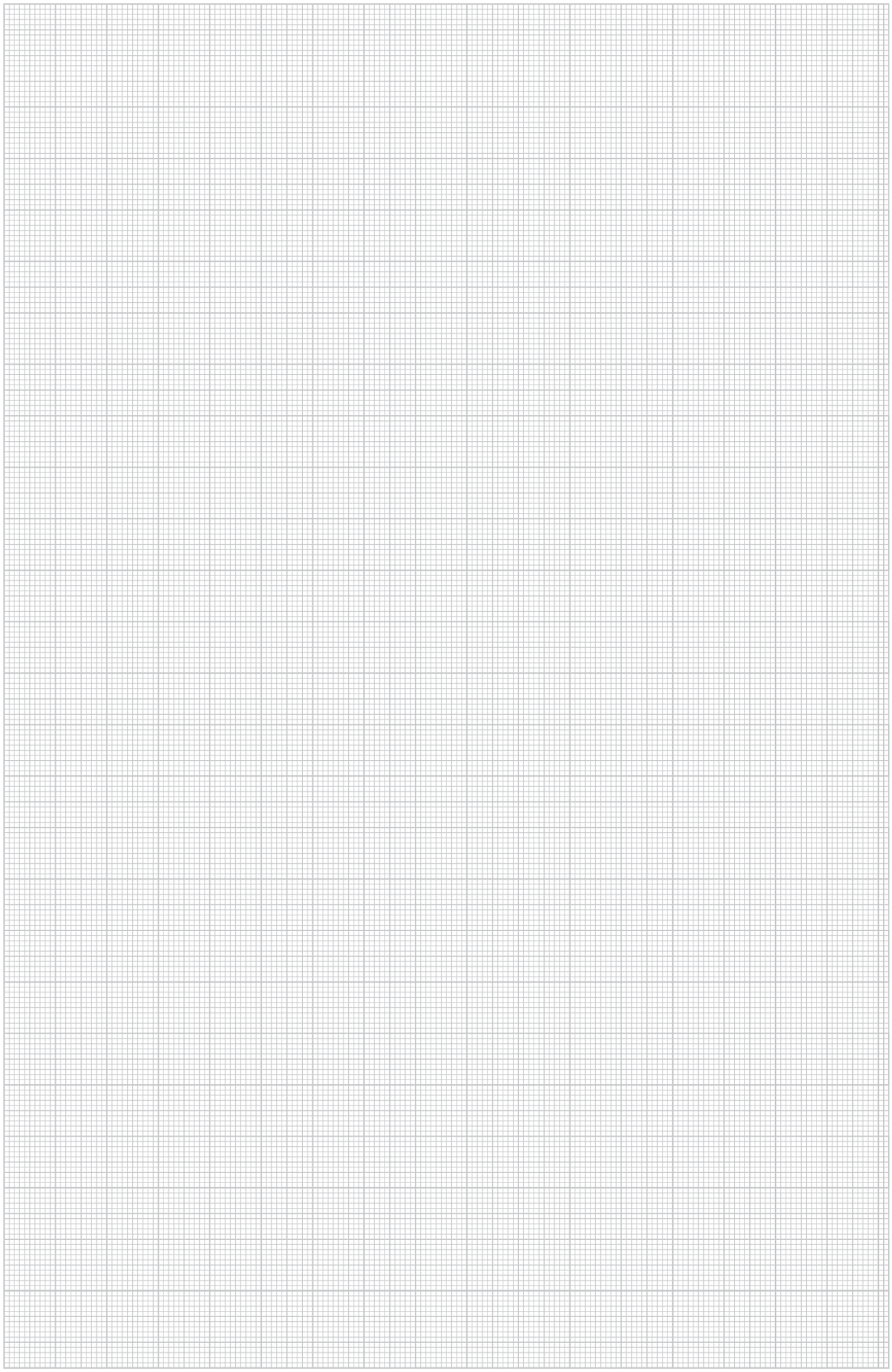
Always indicate the item number when ordering.



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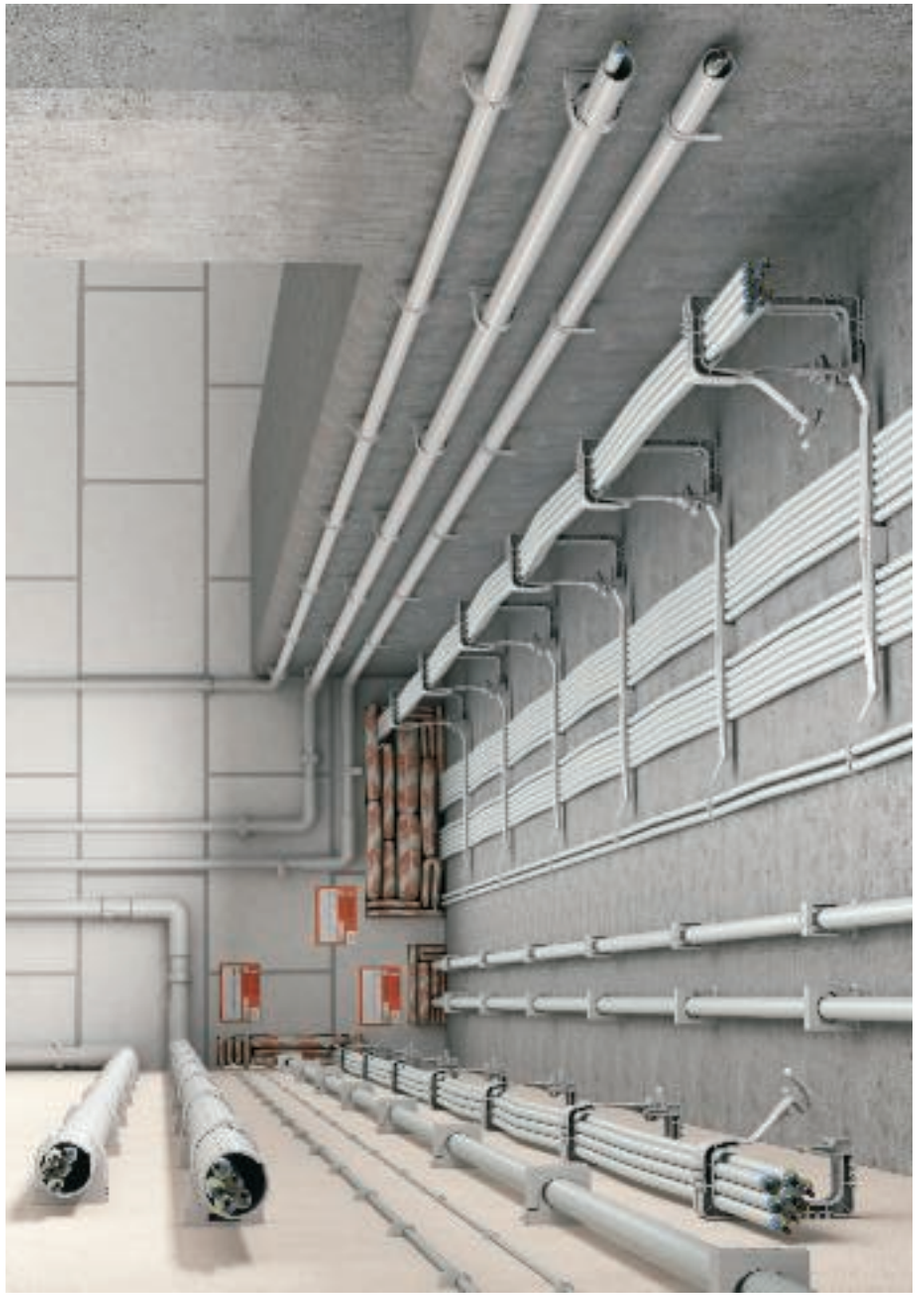

Cable/pipe fastening systems, plastic

OBO Quick Family

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Multi-Quick clip 269

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Push-fit anchors

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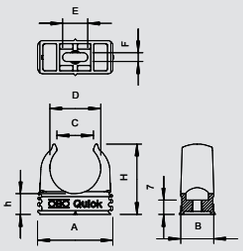
Quick clip

Type	Nominal size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2955 M16	M16	Light grey	1200		100	0.250	**2149 00 4**
2955 M20	M20	Light grey	1200		100	0.330	**2149 01 0**
2955 M25	M25	Light grey	1200		100	0.430	**2149 01 6**
2955 M32	M32	Light grey	600		50	0.630	**2149 02 2**
2955 M40	M40	Light grey	600		50	0.840	**2149 02 8**
2955 M50	M50	Light grey	300		25	1.450	**2149 03 4**
2955 M63	M63	Light grey	240		20	2.200	**2149 04 0**
2955 M16 SW	M16	Jet black	1200		100	0.250	**2149 55 9**
2955 M20 SW	M20	Jet black	1200		100	0.330	**2149 56 3**
2955 M25 SW	M25	Jet black	1200		100	0.430	**2149 56 7**
2955 M32 SW	M32	Jet black	600		50	0.630	**2149 57 1**
2955 M40 SW	M40	Jet black	600		50	0.840	**2149 57 5**
2955 M50 SW	M50	Jet black	300		25	1.450	**2149 57 9**
2955 M63 SW	M63	Jet black	240		20	2.200	**2149 58 3**



PP Polypropylene /100 pc.

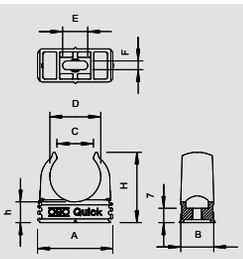
OBO Quick clip, type 2955/...: for all metric steel armoured pipes, as well as light-duty and heavy-duty metric insulation pipes. Suitable for mounting the OBO Quick pipe.
Pipe centring aids allow optimum attachment of the pipe and automatically turn the clip into the correct position.
Universal fastening option; can be arranged with the OBO Multi-quick and starQuick clip.
Slot for side alignment during mounting with wood screw or knock-in anchor.
Size M16-M32 can be screwed onto an M6 thread.
Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.

Important dimensions, Quick clip

G	A	B	C	D	E	F	H	h	F (20 °C)
	mm	mm	mm	mm	mm	mm	mm	mm	N
M16	25.3	16	11.5	15.5	7	4.2	25	10	75
M20	30.3	16	14	19.4	9	4.2	29.5	10	90
M25	36.3	16	17.5	24.3	12	4.2	34	10	100
M32	46.3	16	22.4	31.4	12	4.2	42	11	120
M40	57.3	16	26	39.2	11	4.6	51	12	140
M50	70.3	18	32	49	12	6	63	14	165
M63	87.3	20	43	61.5	12	6	74.5	15	230

Quick clip, flame-resistant

Type	Nominal size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2955 F M16 STGR	M16	Stone grey	1200		100	0.250	**2149 30 3**
2955 F M20 STGR	M20	Stone grey	1200		100	0.330	**2149 30 9**
2955 F M25 STGR	M25	Stone grey	1200		100	0.430	**2149 31 5**
2955 F M32 STGR	M32	Stone grey	600		50	0.630	**2149 32 1**
2955 F M40 STGR	M40	Stone grey	600		50	0.840	**2149 32 7**
2955 F M50 STGR	M50	Stone grey	300		25	1.450	**2149 33 3**
2955 F M63 STGR	M63	Stone grey	240		20	2.200	**2149 33 9**
2955 F M16 RW	M16	Pure white	1200		100	0.250	**2149 35 1**
2955 F M20 RW	M20	Pure white	1200		100	0.330	**2149 35 7**
2955 F M25 RW	M25	Pure white	1200		100	0.430	**2149 36 3**
2955 F M32 RW	M32	Pure white	600		50	0.630	**2149 36 9**
2955 F M40 RW	M40	Pure white	600		50	0.840	**2149 37 5**
2955 F M50 RW	M50	Pure white	300		25	1.450	**2149 38 1**



PP Polypropylene /100 pc.

OBO Quick clip, type 2955/...: for all metric steel armoured pipes, as well as light-duty and heavy-duty metric insulation pipes. Suitable for mounting the OBO Quick pipe.
Pipe centring aids allow optimum attachment of the pipe and automatically turn the clip into the correct position.
Universal fastening option; can be arranged with the OBO Multi-quick and starQuick clip.
Slot for side alignment during mounting with wood screw or knock-in anchor.
Size M16-M32 can be screwed onto an M6 thread.
Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.

Important dimensions, Quick clip

G	A	B	C	D	E	F	H	h	F (20 °C)
	mm	mm	mm	mm	mm	mm	mm	mm	N
M16	25.3	16	11.5	15.5	7	4.2	25	10	75
M20	30.3	16	14	19.4	9	4.2	29.5	10	90
M25	36.3	16	17.5	24.3	12	4.2	34	10	100
M32	46.3	16	22.4	31.4	12	4.2	42	11	120
M40	57.3	16	26	39.2	11	4.6	51	12	140
M50	70.3	18	32	49	12	6	63	14	165
M63	87.3	20	43	61.5	12	6	74.5	15	230

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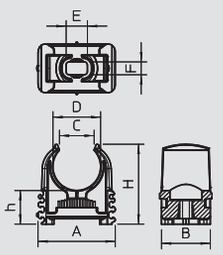


Quick clip, for push-fit anchor

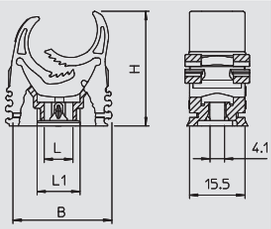
Type	Nominal size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2957 M16	M16	Light grey	–		1	0.330	**2149 70 1**
2957 M19-20	M19-20	Light grey	–		1	0.420	**2149 71 0**

ABS/ASA Acrylonitrile butadiene styrene /100 pc.

OBO Quick clip, type 2955/...: for all metric steel armoured pipes, as well as light-duty and heavy-duty metric insulation pipes. Suitable for mounting the OBO Quick pipe.
Pipe centring aids allow optimum attachment of the pipe and automatically turn the clip into the correct position.
Universal fastening option; can be arranged with the OBO Multi-quick and starQuick clip.
Slot for side alignment during mounting with wood screw or knock-in anchor.
Sizes M16–M32 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.

Important dimensions, Quick clip

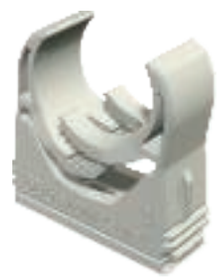
G	A	B	C	D	E	F	H	h	F (20 °C)
	mm	mm	mm	mm	mm	mm	mm	mm	N
M16	25.3	16	11.4	15.6	7	4.2	26	11	
M16	25.3	16	11.4	15.6	7	4.2	26	11	



Multi-Quick clip

Type	Clamping range D mm	Pull-out value N	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
M-Quick 15-19LGR	15-19	40	Light grey	1200		100	0.550	**2153 10 6**
M-Quick 18-22LGR	18.5-22.5	50	Light grey	1200		100	0.750	**2153 11 4**
M-Quick 25-28LGR	25-28.5	60	Light grey	600		50	1.120	**2153 13 0**
M-Quick 31-37LGR	31-37	65	Light grey	300		25	1.780	**2153 15 7**

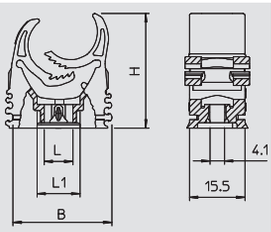
PA Polyamide /100 pc.



Pg and metric.
Simple fastening.
Secure locking.
Radial arrangement.
Simplified storage.
Clamping ranges from 15–37 mm.
Universally applicable.
Fastening in rails, types 2060 and 2061.

Important dimensions, Multi-Quick clip

D	B	H	L	L1
mm	mm	mm	mm	mm
15 - 19	27.5	32	8	12
18.5 - 22.5	33	37	9	13
25 - 28.5	43	46	12	16
31 - 37	55	58	14	18



Multi-Quick clip, metric

Type	Clamping range D mm	Pull-out value N	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
M-Quick M20 LGR	16-20	40	Light grey	1200		100	0.600	**2153 71 8**
M-Quick M25 LGR	20-25	50	Light grey	600		50	0.930	**2153 72 6**
M-Quick M32 LGR	25-32	60	Light grey	600		50	1.400	**2153 73 4**
M-Quick M20 SW	16-20	40	Jet black	1200		100	0.600	**2153 78 5**
M-Quick M25 SW	20-25	50	Jet black	600		50	0.930	**2153 78 7**
M-Quick M32 SW	25-32	60	Jet black	600		50	1.400	**2153 78 9**

PA Polyamide /100 pc.

Multi-quick metric.
Simple fastening.
Secure locking.
Radial arrangement.
Simplified storage.
Universally applicable.

Important dimensions, Multi-Quick clip

D	B	H	L	L1
mm	mm	mm	mm	mm
16–20	29	34	8	12
20–25	36	42	9	13
25–32	46	52	13	17

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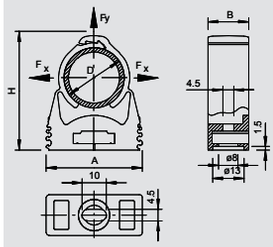
starQuick clip

Type	Size	Clamping range D mm	Breaking load kN	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
SQ-10 LGR	10	9.5-12	0.5	Light grey	1200		100	0.560	**2146 05 3**
SQ-12 LGR	12-14	11.5-15	0.55	Light grey	1200		100	0.540	**2146 06 1**
SQ-15 LGR	15-16	14-16.5	0.6	Light grey	1200		100	0.580	**2146 09 6**
SQ-17 LGR	17-19	16-20	0.7	Light grey	800		100	0.640	**2146 11 8**
SQ-20 LGR	20-23	19.5-23.5	0.8	Light grey	600		50	0.670	**2146 13 4**
SQ-25 LGR	25-28	24-28	0.85	Light grey	600		50	0.970	**2146 20 7**
SQ-28 LGR	28-32	27.5-32	0.9	Light grey	400		50	1.070	**2146 21 5**
SQ-32 LGR	32-35	31.2-35.8	1	Light grey	400		50	1.230	**2146 25 8**
SQ-36 LGR	35-40	35-40.1	1.1	Light grey	300		25	1.510	**2146 29 0**
SQ-40 LGR	40-44	39.3-44.5	1.2	Light grey	200		25	1.710	**2146 32 0**
SQ-47 LGR	45-50	44-50	1.2	Light grey	200		25	1.980	**2146 36 3**
SQ-51 LGR	50-54	48-55	1.4	Light grey	180		15	2.250	**2146 44 4**
SQ-59 LGR	59-65	58.5-65	1.5	Light grey	180		15	3.300	**2146 48 7**



PA Polyamide /100 pc.

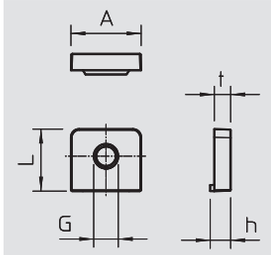
Can be arranged next to each other to size SQ-28.
Break load: with bolt DIN 96; diameter 4.5 mm, minimum break load at 20°.
starQuick clip Type SQ... a comprehensive programme of quality clips ideal for the use in outside areas such as parking garages, under bridges and on the exterior of steel structures. Climate conditions have no chance: the starQuick clips are made from UV weather-resistant polyamide.
The starQuick clips are available in 13 different sizes with a clamping range of 10–65 mm, allowing a problem-free installation on different pipe systems. starQuick is suitable for plastic and metal pipes, as well as electrical and sanitary installations. The clips can be installed on the wall and ceiling. Mounting is amazingly fast and uncomplicated, without the use of tools. Mounting of multiple pipes is also really easy:
- By arranging the single clips.
- By using the double bracket, allowing a firm hold and spacing by heavy loads.
- A rail system allows for an open spacing and numbering of the clips.
starQuick is reliable and can support heavy loads. A patented safety system guarantees that the pipes stay where they are. The pipe is secure in the all around closed clip.

Important dimensions, starQuick clip

G mm	A mm	B mm	D mm	H mm	Fx N	Fy N
10	29	17	9.5 - 12	31.6	500	500
12-14	29	17	11.5 - 15	34.5	550	550
15-16	29	17	14 - 16.5	35.7	600	600
17-19	29	17	16 - 20	39.8	700	700
20-23	29	17	19.5 - 23.5	49.5	800	800
25-28	40	17	24 - 28	49.5	850	850
28-32	40	17	27.5 - 32	52.8	900	900
32-35	43	17	31.2 - 35.8	65.8	1000	1000
35-40	47	17	35 - 40.1	65.8	1100	1100
40-44	52	17	39.3 - 44.5	69.5	1200	1200
45-50	57	17	44 - 50	75.5	1200	1200
50-54	63	17	48 - 55	81	1400	1400
59-65	74	20	58.5 - 65	94.3	1500	1500

starQuick nut

Type	Thread	Dimension L mm	Dimension h mm	Dimension t mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
SQ M6	M6	15	5	4	Light grey	12000		100	0.070	**2146 50 9**



PC Polycarbonate /100 pc.

The starQuick nut was developed especially for the starQuick clip. Simply push into the intended opening of the starQuick. The starQuick nut is captive in the clip. Suitable for M6/M8 threads.

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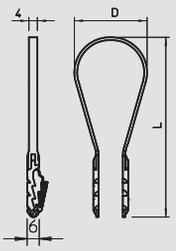
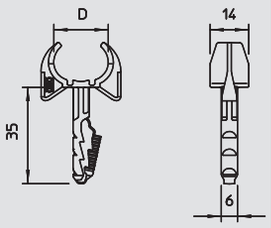


BKS clamp clip

Type	Pull-out value N	Colour	Dimension L mm	Dimension D mm	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
1973 3-13 LGR	500	Light grey	52	13	3-13	100	0.110	**2148 80 3**
1973 8-28 LGR	500	Light grey	70	27	8-28	100	0.150	**2148 84 6**
1973 20-40 LGR	500	Light grey	89	36	20-40	100	0.160	**2148 86 2**

PA Polyamide /100 pc.

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.

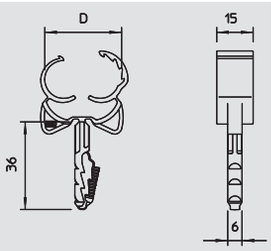


Snap clip

Type	Clamping range D mm	Bore hole depth mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1975 12-15	12-15	40	Light grey	1300		100	0.240	**2148 02 1**
1975 16-19	16-19	40	Light grey	1200		100	0.360	**2148 04 8**
1975 19-22	19-22.5	40	Light grey	1200		100	0.520	**2148 05 6**

PA Polyamide /100 pc.

With moulded-on push-fit plug for rapid mounting in concrete walls and masonry.
Push plug into hole until the clip makes contact with the surface. When the pipe is pressed into the clip, the arms of the clip grip it.

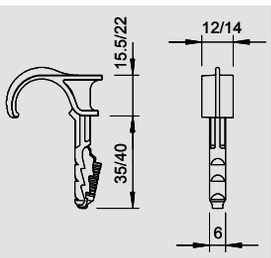


Click-snap clip

Type	Clamping range D mm	Breaking load for concrete B25	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
1976 12-15	12-15.5	190 N	Light grey		100	0.250	**2148 50 1**
1976 16-21	16-21.5	500 N	Light grey		100	0.470	**2148 52 8**
1976 22-28	22.5-28.5	500 N	Light grey		100	0.780	**2148 53 6**

PA Polyamide /100 pc.

With moulded-on push-fit plug for rapid mounting in concrete walls and masonry.
Push plug into hole until the clip makes contact with the surface. When the pipe is pressed into the clip, the arms of the clip grip it.

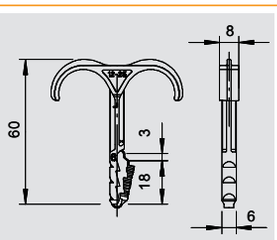


Single push-fit clip

Type	Clamping range D mm	Bore hole Ø mm	Bore hole depth mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1974 16-23	16-23	6	40	Light grey	1200		100	0.260	**2197 80 4**
1974 22-30	22-30	6	40	Light grey	1200		100	0.440	**2197 81 2**

PA Polyamide /100 pc.

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.



Double push-fit clip

Type	Clamping range D mm	Bore hole Ø mm	Bore hole depth mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1974 2X4-12	4-12	6	40	Light grey	1200		100	0.130	**2197 85 5**
1974 2X12-25	12-25	6	40	Light grey	1200		100	0.290	**2197 86 3**

PA Polyamide /100 pc.

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.

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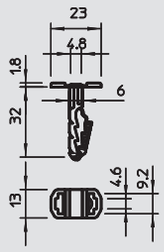
Push-fit anchor

Push-fit anchors for cable ties

Type	Bore hole depth mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
910 STK 6x30	35	Light grey	1200		100	0.130	**2351 60 9**

PA Polyamide /100 pc.

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 sand and brickwork as solid brick. Use in gas concrete masonry is possible, but reduced load capacities must be expected.

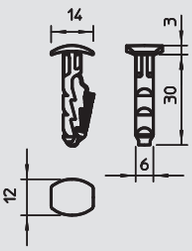


Push-fit anchor with mushroom head

Type	Dowel Ø mm	Length mm	Bore hole depth mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
910 STP 6x30	6	30	35	4000		100	0.100	**2351 41 2**

PA Polyamide /100 pc.

The push-fit anchor allows simple mounting, e.g. of labelling panels or small WDK ducts.
Suitable for concrete, lime sandstone and brickwork as solid brick. Use in gas concrete masonry is possible, but reduced load capacities must be expected.



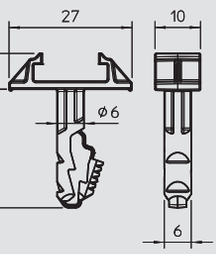
Ø6

Push-fit anchor for Quick clip, type 2957

Type	Dowel Ø mm	Length mm	Bore hole depth mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
910 STQS 6x26	6	26	30	–		1	0.130	**2351 65 0**

ABS/ASA Acrylonitrile butadiene styrene /100 pc.

Push-fit anchor suitable for Quick clip, type 2957. The anchor is fixed to the Quick clip by a locking mechanism. Suitable for rapid mounting in concrete walls and masonry.
The anchor is pushed into the hole until the clip makes contact with the surface.



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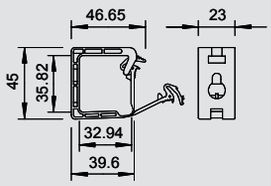
Always indicate the item number when ordering.



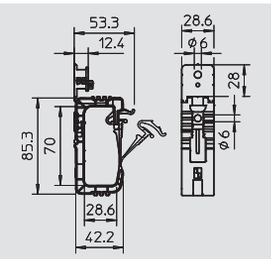
GRIP 10

Type	No. of conductors NYM 3 x 1.5	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 10	10	Light grey		50	0.760	**2205 39 8**
2031 F 10	10	Stone grey		50	0.760	**2205 40 0**

PP Polypropylene /100 pc.

Light grey version: Standard version for general use, suitable for wall and ceiling mounting.
Fastening holes 6 mm Ø. Recommended fastening spacing when full: 50–60 cm.

Capacity:
2031/ 10 max. 10 cables NYM 3 x 1.5 mm²



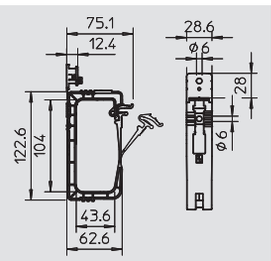
GRIP 20

Type	No. of conductors NYM 3 x 1.5	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 20	20	Light grey		50	1.920	**2205 40 4**
2031 F 20	20	Stone grey		50	1.920	**2205 41 2**

PP Polypropylene /100 pc.

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.
Fastening holes 6 mm Ø, recommended fastening spacing when full: 50–60 cm.
Flame-resistant version, stone grey, to DIN VDE 0471/DIN IEC 695 Part 2-1, test temperature 960 °C.

With multifunctional fastening element



GRIP 40

Type	No. of conductors NYM 3 x 1.5	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 40	40	Light grey		25	3.280	**2205 41 6**
2031 F 40	40	Stone grey		25	4.000	**2205 42 3**

PP Polypropylene /100 pc.

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.
Fastening holes 6 mm Ø, recommended fastening spacing when full: 50–60 cm.
Flame-resistant version, stone grey, to DIN VDE 0471/DIN IEC 695 Part 2-1, test temperature 960 °C.

With multifunctional fastening element

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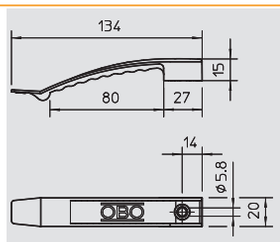
Pressure clip

Pressure clip for 8 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2032	8	Light grey	400		50	1.300	**2205 01 7**
2032 SP	8	Light grey	100		100	0.840	**2204 97 5**
2032 F	8	Stone grey	400		50	1.410	**2204 90 8**

PA Polyamide PBPT Polybutylene terephthalate /100 pc.

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.



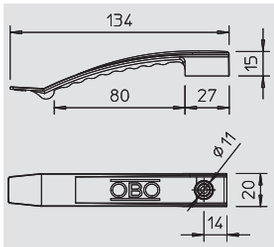
Pressure clip for 8 cables, connectable

Type	No. of conductors NYM 3 x 1.5	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2032 AS	8	Light grey	400		50	1.300	**2205 05 2**

PA Polyamide /100 pc.

Version suitable for fixing with gas pressure nail gun (i.e. by SPIT), for example for use on intermediate ceilings and partition walls.
Clamping height: 9 mm, with spacer 13 mm.
Fastening hole: 7 mm Ø.

2032 for max. 8 cables NYM 3 x 1.5 mm²

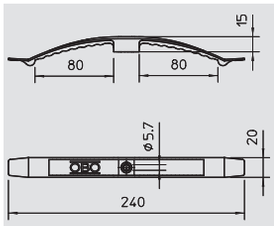


Pressure clip for 16 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2033	16	Light grey	25		25	2.080	**2205 03 3**
2033 SP	16	Light grey	100		100	1.920	**2204 98 3**
2033 F	16	Stone grey	25		25	2.060	**2204 91 6**

PA Polyamide PBPT Polybutylene terephthalate /100 pc.

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.

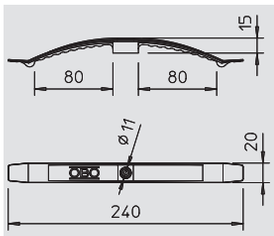


Pressure clip for 16 cables, connectable

Type	No. of conductors NYM 3 x 1.5	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2033 AS	16	Light grey	25		25	2.100	**2205 05 3**

PA Polyamide /100 pc.

Version suitable for fixing with gas pressure nail gun (i.e. by SPIT), for example for use on intermediate ceilings and partition walls.
Clamping height: 9 mm, with spacer 13 mm.
Fastening hole: 7 mm Ø.

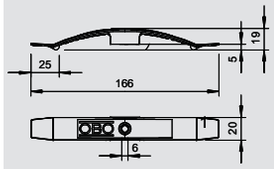


Pressure clip for 10 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2034	10	Light grey	400		50	1.180	**2205 04 1**
2034 SP	10	Light grey	100		100	0.810	**2204 99 1**
2034 F	10	Stone grey	400		50	0.810	**2204 92 4**

PA Polyamide PBPT Polybutylene terephthalate /100 pc.

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.

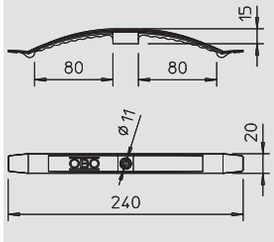


Pressure clip for 10 cables, connectable

Type	No. of conductors NYM 3 x 1.5	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2034 AS	10	Light grey	400		50	1.130	**2205 05 4**

PA Polyamide /100 pc.

Version suitable for fixing with gas pressure nail gun (i.e. by SPIT), for example for use on intermediate ceilings and partition walls.
Clamping height: 9 mm, with spacer 13 mm.
Fastening hole: 7 mm Ø.



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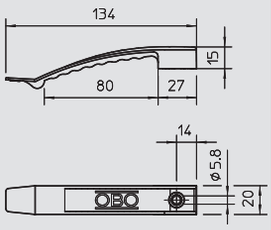
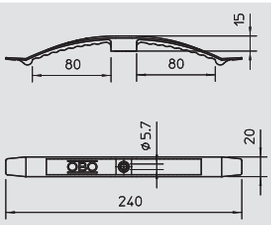


Pressure clip with knock-in anchor, for 8 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2032 SD	8	Light grey	50		50	1.660	**2204 80 0**
2032 SD SP	8	Light grey	100		100	1.660	**2204 85 1**

PA Polyamide /100 pc.

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.

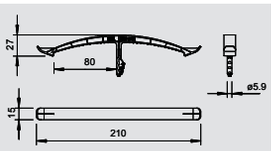


Pressure clip with knock-in anchor, for 16 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2033 SD	16	Light grey	25		25	2.440	**2204 81 9**
2033 SD SP	16	Light grey	100		100	2.440	**2204 87 8**

PA Polyamide /100 pc.

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.

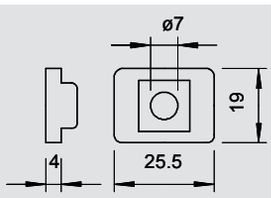


Pressure clip with push-fit anchor

Type	No. of conductors NYM 3 x 1.5	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2033 STD	16	Light grey	25		25	1.200	**2204 54 1**

PA Polyamide /100 pc.

With moulded push fit plug, 6 mm Ø.

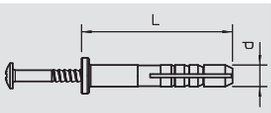


Spacer

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2033 D 25x19	Light grey	2400		100	0.220	**2205 09 2**

PS Polystyrene /100 pc.

To increase the clamping height of pressure clips from 10 to 13 mm for thicker cables, impact-resistant polystyrene.



Knock-in anchor

Type	Dowel Ø mm	Length mm	Pull-out force N min/concrete		Pack. pcs	Weight kg/100 pcs.	Item No.
910 SD 6X35	6	35	260		100	0.310	**2351 05 6**
910 SD 6X40	6	40	260		100	0.560	**2351 06 4**

PA Polyamide /100 pc.

Knock-in anchor: steel, electrogalvanised and transparently passivated.

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Fastening clip

Series pressure clip

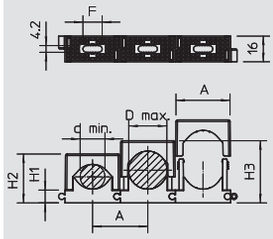
Type	Clamping range D mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2037 3-7 LGR	3-7	Light grey	1000		100	0.260	**2250 07 1**
2037 6-13 LGR	6-13	Light grey	1200		100	0.370	**2250 13 6**
2037 12-20 LGR	12-20	Light grey	500		50	0.640	**2250 20 9**
2037 16-24 LGR	16-24	Light grey	600		50	0.840	**2250 24 1**
2037 18-30 LGR	18-30	Light grey	300		25	1.230	**2250 30 6**
2037 27-43 LGR	27-43	Light grey	300		25	1.810	**2250 43 8**

PA Polyamide /100 pc.

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.

Important dimensions, series pressure clip

D mm	A mm	H1 mm	H2 mm	H3 mm	d min. mm	D max. mm	F mm
3–7	14.5	7.5	15.5	19.5	3	7	6
6–13	20	8.5	20	27	6	13	13
12–20	28	8.5	26	34	12	20	14
16–24	34.5	8.5	31	39	16	24	12
18–30	40	9	34	46	18	30	12
27–43	55	10.5	46	62	27	43	15



Pressure ISO clip, single

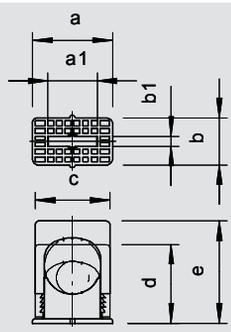
Type	Clamping range D mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3050 LGR	6-16	Light grey	800		100	0.480	**2101 01 7**
3051 LGR	14-24	Light grey	600		50	0.880	**2101 03 3**
3052 LGR	24-34	Light grey	300		25	1.560	**2101 06 8**

PS Polystyrene /100 pc.

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.

Important dimensions, pressure ISO clip

D mm	a1 mm	b1 mm	a mm	b mm	c mm	d mm	e mm
6–16	13	4	28	18	22.5	25	34
14–24	21	4.2	34	20	32	33	43
24–34	16	4.2	45	24	43	43	57



Pressure ISO clip, double

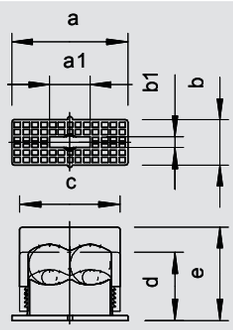
Type	Clamping range D mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3050 2 6-16	6-16	Light grey	250		25	1.040	**2115 01 8**

PS Polystyrene /100 pc.

For two cables, 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.

Important dimensions, pressure ISO clip

D mm	a1 mm	b1 mm	a mm	b mm	c mm	d mm	e mm
6–16	26	3.8	46	18	40	26	35



Pressure ISO clip, double

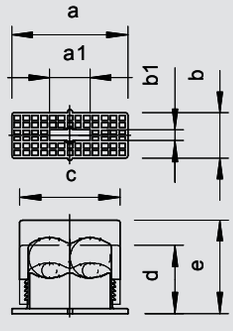
Type	Clamping range D mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3050 2 6-16	6-16	Light grey	250		25	1.040	**2115 01 8**

PS Polystyrene /100 pc.

For two cables, 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.

Important dimensions, pressure ISO clip

D mm	a1 mm	b1 mm	a mm	b mm	c mm	d mm	e mm
6–16	26	3.8	46	18	40	26	35



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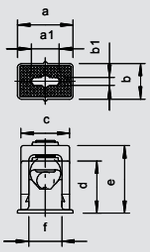
Always indicate the item number when ordering.



Grip ISO clip, single

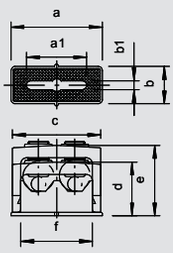
Type	Clamping range D mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3040 LGR	6-16	Light grey	1200		100	0.740	**2105 01 2**
3041 LGR	16-24	Light grey	600		50	1.350	**2105 03 9**
3042 LGR	24-34	Light grey	300		25	2.490	**2105 05 5**

PS Polystyrene /100 pc.

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.

Important dimensions, grip ISO clip

D mm	a1 mm	b1 mm	a mm	b mm	c mm	d mm	e mm	f mm
6–16	13.5	4	28	18	24.5	28	35	20
16–24	20	4.2	35	22	37	36	44	31
24–34	14	4.2	50	22	48	49	59	40



Grip ISO clip, double

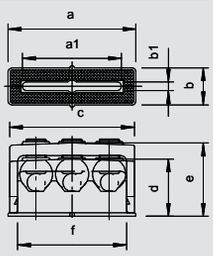
Type	Clamping range D mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3040 2	6-16	Light grey	250		25	1.180	**2107 01 5**
3041 2	16-24	Light grey	300		25	2.290	**2107 03 1**

PS Polystyrene /100 pc.

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.

Important dimensions, grip ISO clip

D mm	a1 mm	b1 mm	a mm	b mm	c mm	d mm	e mm	f mm
6–16	29	4.2	44	18	43	28	35	38
16–24	46	4.5	63	22	61	37	46	55



Grip ISO clip, triple

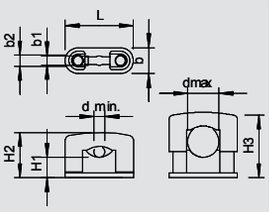
Type	Clamping range D mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3040 3	6-16	Light grey	200		25	1.750	**2109 01 8**

PS Polystyrene /100 pc.

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.

Important dimensions, grip ISO clip

D mm	a1 mm	b1 mm	a mm	b mm	c mm	d mm	e mm	f mm
6–16	48	4	62	18	61	31	38	55



SOM clip, single

Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3079 LGR	5-14	M5 x 14	Light grey	500		50	0.520	**2124 14 9**
3080 LGR	6-17	M6 x 18	Light grey	600		50	0.930	**2124 17 3**
3081 LGR	15-25	M8 x 23	Light grey	300		25	1.860	**2124 25 4**
3082 LGR	24-34	M8 x 23	Light grey	300		25	2.540	**2124 34 3**

PS Polystyrene /100 pc.

With plastic screws, so corrosion-protected, with slot for fastening with wood screws or 5 mm knock-in anchors.

Important dimensions, SOM clip

D mm	L mm	d min. mm	d max. mm	H1 mm	H2 mm	H3 mm	b mm	b1 mm	b2 mm
5–14	31	5	14	10.5	20	29	12	4.2	5
6–17	37	6	17	11	24.5	35.5	14	4	5.2
15–25	51	14	25	11.5	33	44	17	5	
24–34	62	22	34	11	40	52	18	5.2	

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Fastening clip

SOM clip, double

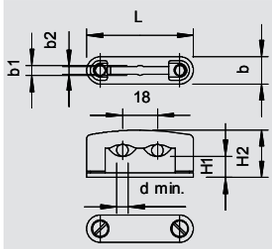
Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3080 2 LGR	6-17	M6 x 18	Light grey	300		25	1.230	**2124 49 1**

PS Polystyrene /100 pc.

With plastic screws, so corrosion-protected, with slot for fastening with wood screws or 5 mm knock-in anchors.

Important dimensions, SOM clip

D mm	L mm	d min. mm	d max. mm	H1 mm	H2 mm	H3 mm	b mm	b1 mm	b2 mm
6–17	55	6	17	11	24.5	35.5	14	4	5.2



SOM clip, hardly flammable

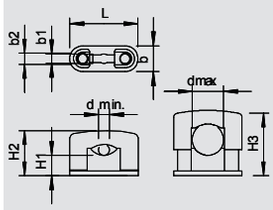
Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3083 LGR	32-45	M8 x 40	Light grey	240		20	5.840	**2124 45 9**

UF Duroplast, Aminoplast, type 131.5 /100 pc.

With plastic screws, so corrosion-protected, with slot for fastening with wood screws or 5 mm knock-in anchors.
Hardly inflammable.

Important dimensions, SOM clip

D mm	L mm	d min. mm	d max. mm	H1 mm	H2 mm	H3 mm	b mm	b1 mm	b2 mm
32–45	77	32	45	12	54	57	21	6.5	



ISO base clip

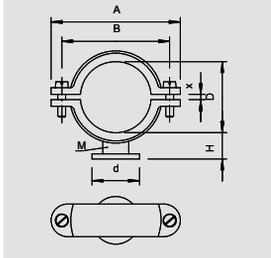
Type	Clamping range D mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2960 11 M6 LGR	9-11	Light grey	600		50	0.470	**2130 11 4**
2960 12 M6 LGR	12-13	Light grey	600		50	0.480	**2130 12 2**
2960 15 M6 LGR	15-17	Light grey	500		50	0.510	**2130 15 7**
2960 18 M6 LGR	16.5-18	Light grey	600		50	0.790	**2130 18 1**
2960 22 M6 LGR	20.5-22	Light grey	600		50	0.950	**2130 21 1**
2960 25 M6 LGR	22.5-25	Light grey	250		25	1.220	**2130 25 4**
2960 28 M6 LGR	25.5-28	Light grey	300		25	1.340	**2130 28 9**
2960 35 M6 LGR	31.5-35	Light grey	300		25	1.760	**2130 35 1**
2960 40 M6 LGR	36.5-40	Light grey	240		20	2.920	**2130 40 8**
2960 43 M6 LGR	40.5-43	Light grey	240		20	3.100	**2130 43 2**
2960 47 M6 LGR	45.5-47	Light grey	180		15	4.240	**2130 47 5**
2960 54 M6 LGR	50.5-54	Light grey	180		15	4.280	**2130 54 8**

PS Polystyrene /100 pc.

Can be screwed onto M6 thread.

Important dimensions, ISO base clip

D mm	A mm	B mm	x mm	H mm	d mm	M
9–11	35	25	2.2	11.6	17	M6
12–13	35	25	1	10	17	M6
15–17	38	28	2	12	20	M6
16.5–18	46	34	2	12	20	M6
20.5–22	50	38	2	14	21	M6
22.5–25	55	43	3	16	23	M6
25.5–28	58	46	3	17.5	24	M6
31.5–35	66	54	4	23	34	M6
36.5–40	80	66	4	23	34	M6
40.5–43	80	66	3	21	34	M6
45.5–47	98	82	2	22.5	36	M6
50.5–54	98	82	4	20	36	M6



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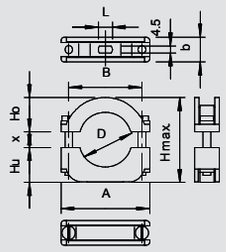


Lightning ISO clip

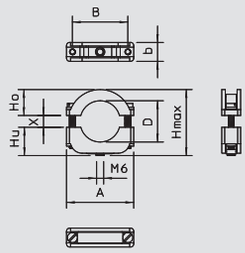
Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3015 12 LGR	6-12	M4 x 22	Light grey	600		50	1.600	**2157 12 8**
3015 17 LGR	10-17	M4 x 25	Light grey	500		50	1.740	**2157 17 9**
3015 24 LGR	17-24	M4 x 30	Light grey	600		50	2.540	**2157 24 1**
3015 34 LGR	24-34	M5 x 35	Light grey	300		25	3.390	**2157 34 9**

PS Polystyrene /100 pc.

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.

Important dimensions, lightning ISO clip

D mm	A mm	B mm	H max. mm	Ho mm	Hu mm	L mm	b mm	M
6–12	34	24	30	9.5	13.5	7.5	14	M4 x 22
10–17	38	28	36.5	12	14	7.5	14	M4 x 25
17–24	47.5	37	43	16	18	10	15	M4 x 30
24–34	57	47	54.5	22	22	9	16	M5 x 35



Lightning ISO clip, screw-on

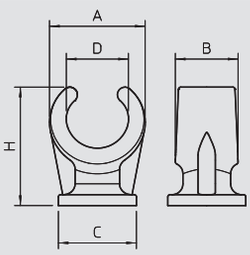
Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3019 M6 LGR	6-12	M4 x 22	Light grey	600		50	1.560	**2158 12 4**
3020 LGR	10-17	M4 x 25	Light grey	500		50	1.590	**2158 17 5**
3021 LGR	17-24	M4 x 30	Light grey	250		25	2.630	**2158 24 8**
3022 LGR	24-34	M5 x 35	Light grey	300		25	4.180	**2158 34 5**

PS Polystyrene /100 pc.

Lightning ISO clips: plastic clip with metal insert, therefore also suitable for heavy-duty applications; metal parts made of electrogalvanised steel.
Can be screwed onto M6 thread.
*Sizes 6–12 and 10–17 not suitable for bolt-firing device.

Important dimensions, lightning ISO clip

D mm	A mm	b mm	B mm	H max. mm	Ho mm	Hu mm	x	M
6–12	34	14	24	32.5	9.5	13.5	9.5	M4 x 22
10–17	38	14	28	36	12	14	10	M4 x 25
17–24	47.5	15	37	44	16	18	10	M4 x 30
24–34	57	16	47	56	22	22	12	M5 x 35



Base clamp clip, single

Type	Size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2962 6 LGR	6	Light grey	1200		100	0.100	**2140 06 3**
2962 8 LGR	8	Light grey	2000		100	0.150	**2140 07 1**
2962 10 LGR	10	Light grey	2400		100	0.170	**2140 10 1**
2962 12 LGR	12	Light grey	1200		100	0.240	**2140 12 8**
2962 15 LGR	14-15	Light grey	1000		100	0.360	**2140 15 2**
2962 18 LGR	16-18	Light grey	1200		100	0.450	**2140 18 7**
2962 22 LGR	19-22	Light grey	500		50	0.550	**2140 23 3**
2962 28 LGR	25-28	Light grey	250		25	1.110	**2140 28 4**
2962 35 LGR	32-35	Light grey	300		25	1.480	**2140 35 7**
2962 42 LGR	40-42	Light grey	300		25	1.880	**2140 41 1**

PP Polypropylene /100 pc.

Can be screwed onto M6 thread.

Important dimensions, base clamp clip

D mm	A mm	B mm	C mm	H mm
6	11.5	10	13.5	17
8	14	11	14	19
10	16.5	12	15	20.5
12	19	13	16	23
14–15	22	14.5	18	28
16–18	24.5	15.5	20	30
19–22	29.2	17	22	34
25–28	38.8	20	25	41
32–35	47	22	29	51
40–42	54	23	32	58

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Fastening clip

Base clamp clip, double

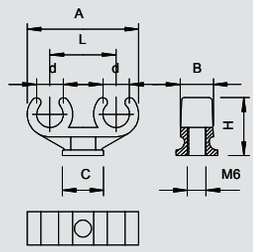
Type	Size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2962 2X10	10 + 10	Light grey	1000		100	0.350	**2140 60 8**
2962 2x15	14/15 + 14/15	Light grey	600		50	0.740	**2140 65 9**
2962 2x16	15/16 + 15/16	Light grey	600		50	0.980	**2140 68 3**
2962 2x22	18/22 + 18/22	Light grey	300		25	1.410	**2140 72 1**

PP Polypropylene /100 pc.

Can be screwed onto M6 thread.

Important dimensions, base clamp clip

d mm	A mm	B mm	C mm	L mm	H mm
10 + 10	40.5	12	Ø 15	24	21
14/15 + 14/15	52	14.5	18 x 30	30	28
15/16 + 15/16	57.5	15.5	20 x 33	33	30
18/22 + 18/22	67	17	22 x 38	38	34



Fastening clip

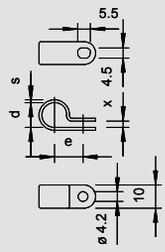
Type	For cable Ø mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
255 3.2 LGR	3.2	Light grey	9000		100	0.040	**2222 03 5**
255 5.2 LGR	5.2	Light grey	9000		100	0.040	**2222 05 1**
255 6.5 LGR	6.5	Light grey	7500		100	0.050	**2222 07 8**
255 8 LGR	8	Light grey	5000		100	0.050	**2222 08 6**
255 9.5 LGR	9.5	Light grey	5000		100	0.060	**2222 09 4**
255 11 LGR	11	Light grey	4000		100	0.070	**2222 11 6**
255 12.5 LGR	12.5	Light grey	3000		100	0.080	**2222 12 4**
255 14 LGR	14	Light grey	3000		100	0.110	**2222 14 0**
255 16 LGR	16	Light grey	2700		100	0.120	**2222 16 7**
255 17.5 LGR	17.5	Light grey	2700		100	0.130	**2222 17 5**

PA Polyamide /100 pc.

Fastening clip for secure all-round fixing of cables.

Important dimensions, fastening clip

Ø mm	d mm	e mm	s mm	x mm
3.2	3	8.5	1	1.8
5.2	5	9.5	1	1.8
6.5	6.3	10	1	2.2
8	7.8	10	1.2	2.2
9.5	9.3	11	1.2	2.2
11	10.8	13	1.2	2.8
12.5	12.3	14	1.2	2.8
14	13.8	15	1.5	3.2
16	15.8	16	1.5	3.2
17.5	17.2	17	1.5	3.2



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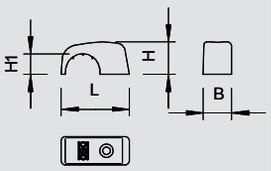
Always indicate the item number when ordering.



ISO nail clamp

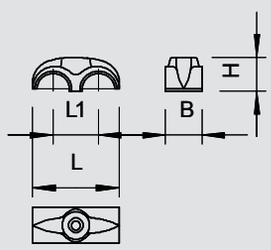
Type	For cable Ø mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
4028	2-4	Light grey	10000		100	0.030	**2215 04 7**
4029	4-7	Light grey	9000		100	0.040	**2215 07 1**
4030	7-11	Light grey	5000		100	0.050	**2215 10 1**
4031 10-14	10-14	Light grey	3000		100	0.100	**2215 14 4**
4031 14-17	14-17	Light grey	2700		100	0.220	**2215 17 9**
4032	16-20	Light grey	1800		100	0.280	**2215 20 9**

PP Polypropylene /100 pc.

"Standard" nail clips, suitable for steel nails 2 mm.

Important dimensions, ISO nail clip

D mm	B mm	L mm	H mm	H1 mm
2–4	7	14.5	4.5	1.5
4–7	7.2	15	7	3.7
7–11	8.3	20	9.5	6
10–14	10	27	12.5	7.6
14–17	11	33	15.8	11
16–20	12	37	17.5	12



Double ISO nail clip

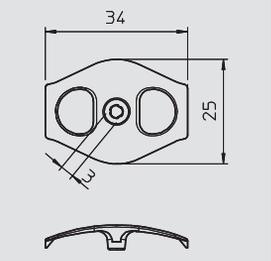
Type	For cable Ø mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3030 2	7-11	Light grey	5000		100	0.100	**2213 11 7**

PS Polystyrene /100 pc.

Nail clips to fasten two cables.

Important dimensions, double ISO nail clip

D mm	B mm	L mm	L1 mm	H mm
7–11	9	27	14	10.5

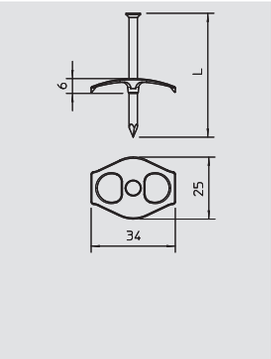


Nail-Fix, without nail

Type	For nail Ø x l mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1996 O	3,0 - 3,5	Transparent	3000		100	0.060	**2222 80 9**

PP Polypropylene /100 pc.

Without nails for refitting Ø 3 mm and 3.5 mm steel nails 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.



Nail-Fix

Type	For nail Ø x l mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1996 40	3 x 40	Transparent	1200		100	0.180	**2222 83 3**
1996 50	3,5 x 50	Transparent	1200		100	0.450	**2222 84 1**
1996 60	3,5 x 60	Transparent	1200		100	0.550	**2222 86 8**
1996 70	3,5 x 70	Transparent	1200		100	0.210	**2222 87 6**

PP Polypropylene /100 pc.

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.

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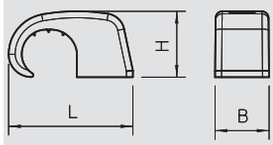
Adhesive clip, no nail

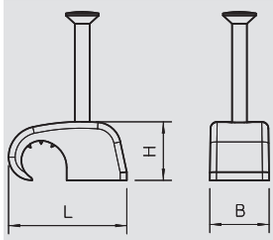


Type	For nail Ø x l mm	For cable Ø mm	Colour	Dimension L mm	Dimension B mm	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
4039	2	4-7	Light grey	14.4	7.2	7.1	9000	100	0.040	**2215 30 6**
4039 SP	2	4-7	Light grey	14.4	7.2	7.1	10000	200	0.040	**2214 87 3**
4040	2	7-12	Light grey	19.1	8.3	10.1	5000	100	0.080	**2215 31 4**
4040 SP	2	7-12	Light grey	19.1	8.3	10.1	6000	200	0.080	**2214 88 1**
4041	2	10-14	Light grey	26	10	13.3	3000	100	0.130	**2215 34 9**
4042	2	14-17	Light grey	32	12	17.8	1800	100	0.240	**2215 32 2**
4043	2	17-21	Light grey	38	14	21.6	1200	100	0.340	**2215 33 0**
4044	2	21-25	Light grey	45	15	26.7	600	50	0.290	**2215 35 7**

PP Polypropylene /100 pc.

Adhesive clip, for clamping to the cable, suitable for steel nails 2 mm.

Adhesive clip

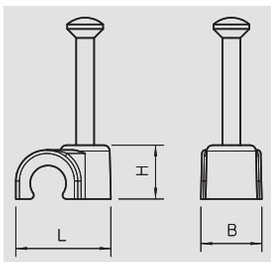


Type	For nail Ø x l mm	For cable Ø mm	Colour	Dimension L mm	Dimension B mm	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2025 18 LGR	2 x 18	4-7	Light grey	14.5	7.2	7.1	7500	100	0.070	**2228 61 0**
2025 25 LGR	2 x 25	4-7	Light grey	14.5	7.2	7.1	7500	100	0.090	**2228 62 9**
2026 18 LGR	2 x 18	7-12	Light grey	19.1	8.3	10.1	5000	100	0.100	**2228 71 8**
2026 25 LGR	2 x 25	7-12	Light grey	19.1	8.3	10.1	5000	100	0.110	**2228 72 6**
2026 25 LGR SP	2 x 25	7-12	Light grey	19.1	8.3	10.1	2400	200	0.110	**2228 43 2**
2026 35 LGR	2 x 35	7-12	Light grey	19.1	8.3	10.1	4000	100	0.140	**2228 73 4**
2026 35 LGR SP	2 x 35	7-12	Light grey	19.1	8.3	10.1	2400	200	0.140	**2228 44 0**
2026 45 LGR	2 x 45	7-12	Light grey	19.1	8.3	10.1	3000	100	0.160	**2228 75 0**
2027 25 LGR	2 x 25	10-14	Light grey	26	10	13.3	2700	100	0.170	**2228 82 3**
2027 30 LGR	2 x 30	10-14	Light grey	26	10	13.3	2700	100	0.180	**2228 83 1**
2027 40 LGR	2 x 40	10-14	Light grey	26	10	13.3	2700	100	0.200	**2228 85 8**
2028 40 LGR	2 x 40	14-17	Light grey	32	12	17.8	1000	100	0.300	**2228 90 4**
2025 18 RW	2,0 x 18	4-7	Pure white	14.5	7.2	7.1	7500	100	0.070	**2228 68 6**
2025 25 RW	2,0 x 25	4-7	Pure white	14.5	7.2	7.1	7500	100	0.100	**2228 68 8**
2026 18 RW	2,0 x 18	7-12	Pure white	19.1	8.3	10.1	5000	100	0.100	**2228 42 0**
2026 25 RW	2,0 x 25	7-12	Pure white	19.1	8.3	10.1	5000	100	0.140	**2228 42 2**

PP Polypropylene /100 pc.

Adhesive clip, for clamping to the cable.

ISO nail clip, light grey



Type	For cable Ø mm	For nail Ø x l mm	Dimension L mm	Dimension B mm	Dimension H mm	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2004 18 LGR	4	2,0 x 18	9.6	6	6.1	Light grey	18000	200	0.060	**2227 22 3**
2004 25 LGR	4	2,0 x 25	9.6	6	6.1	Light grey	15000	200	0.080	**2227 23 1**
2005 18 LGR	5	2,0 x 18	10.8	7.1	7.1	Light grey	9000	100	0.070	**2227 34 7**
2005 25 LGR	5	2,0 x 25	10.8	7.1	7.1	Light grey	9000	100	0.080	**2227 33 9**
2006 25 LGR	6	2,0 x 25	12.5	8	8.1	Light grey	7500	100	0.090	**2227 42 8**
2006 35 LGR	6	2,0 x 35	12.5	8	8.1	Light grey	5000	100	0.110	**2227 43 6**
2007 25 LGR	7	2,0 x 25	13.7	8	9.4	Light grey	7500	100	0.100	**2227 51 7**
2007 35 LGR	7	2,0 x 35	13.7	8	9.4	Light grey	5000	100	0.120	**2227 52 5**
2008 25 LGR	8	2,0 x 25	15	8	10.6	Light grey	5000	100	0.110	**2227 61 4**
2008 35 LGR	8	2,0 x 35	15	8	10.6	Light grey	5000	100	0.130	**2227 62 2**
2008 45 LGR	8	2,0 x 45	15	8	10.6	Light grey	4000	100	0.160	**2227 63 0**
2009 25 LGR	9	2,0 x 25	16.1	8	11.6	Light grey	5000	100	0.110	**2227 71 1**
2009 35 LGR	9	2,0 x 35	16.1	8	11.6	Light grey	4000	100	0.130	**2227 73 8**
2009 35 LGR SP	9	2,0 x 35	16.1	8	11.6	Light grey	2400	200	0.130	**2227 76 2**
2009 45 LGR	9	2,0 x 45	16.1	8	11.6	Light grey	3000	100	0.150	**2227 74 6**
2009 45 LGR SP	9	2,0 x 45	16.1	8	11.6	Light grey	2400	200	0.150	**2227 79 7**
2010 25 LGR	10	2,0 x 25	17.7	8	12.7	Light grey	5000	100	0.170	**2227 80 0**
2010 35 LGR	10	2,0 x 35	17.7	8	12.7	Light grey	4000	100	0.150	**2227 81 9**
2010 45 LGR	10	2,0 x 45	17.7	8	12.7	Light grey	3000	100	0.170	**2227 82 7**
2011 35 LGR	11	2,0 x 35	19	9	14	Light grey	3000	100	0.250	**2227 91 6**
2011 45 LGR	11	2,0 x 45	19	9	14	Light grey	3000	100	0.270	**2227 92 4**
2012 35 LGR	12	2,0 x 35	19.8	9	14.8	Light grey	3000	100	0.170	**2228 02 5**
2012 45 LGR	12	2,0 x 45	19.8	9	14.8	Light grey	3000	100	0.190	**2228 03 3**
2014 40 LGR	14	2,5 x 40	24	11	18	Light grey	1500	50	0.470	**2228 11 4**
2014 50 LGR	14	2,5 x 50	24	11	18	Light grey	1500	50	0.540	**2228 12 2**
2016 40 LGR	16	2,5 x 40	26	12	20	Light grey	1500	50	0.400	**2228 21 1**
2016 50 LGR	16	2,5 x 50	26	12	20	Light grey	1500	50	0.530	**2228 23 8**
2018 40 LGR	18	2,5 x 40	28	13	22	Light grey	1000	25	0.550	**2228 30 0**
2018 50 LGR	18	2,5 x 50	28	13	22	Light grey	750	25	0.700	**2228 31 9**
2020 40 LGR	20	2,5 x 40	31	14	24.5	Light grey	750	25	0.740	**2228 40 8**
2020 50 LGR	20	2,5 x 50	31	14	24.5	Light grey	750	25	0.780	**2228 41 6**

PP Polypropylene /100 pc.

ISO nail clip, short design.

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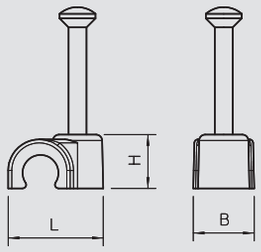
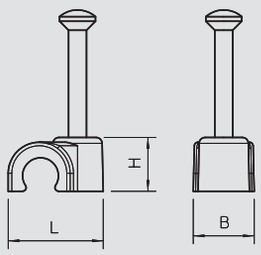


ISO nail clip, white

Type	For cable Ø mm	For nail Ø x l mm	Dimension L mm	Dimension B mm	Dimension H mm	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2004 18 RW	4	2,0 x 18	9.6	6	6.1	Pure white	18000	200	0.060	**2225 22 0**
2004 25 RW	4	2,0 x 25	9.6	6	6.1	Pure white	15000	200	0.080	**2225 23 9**
2005 18 RW	5	2,0 x 18	10.8	7.1	7.1	Pure white	9000	100	0.070	**2225 37 9**
2005 25 RW	5	2,0 x 25	10.8	7.1	7.1	Pure white	9000	100	0.080	**2225 34 4**
2006 18 RW	6	2,0 x 18	12.5	8	8.1	Pure white	7500	100	0.070	**2225 40 9**
2006 25 RW	6	2,0 x 25	12.5	8	8.1	Pure white	7500	100	0.090	**2225 41 7**
2006 35 RW	6	2,0 x 35	12.5	8	8.1	Pure white	5000	100	0.110	**2225 42 5**
2007 18 RW	7	2,0 x 18	13.7	8	9.4	Pure white	7500	100	0.080	**2225 50 6**
2007 25 RW	7	2,0 x 25	13.7	8	9.4	Pure white	7500	100	0.100	**2225 51 4**
2007 35 RW	7	2,0 x 35	13.7	8	9.4	Pure white	5000	100	0.120	**2225 52 2**
2008 25 RW	8	2,0 x 25	15	8	10.6	Pure white	5000	100	0.110	**2225 61 1**
2008 35 RW	8	2,0 x 35	15	8	10.6	Pure white	5000	100	0.130	**2225 63 8**
2009 20 RW	9	2,0 x 20	16.1	8	11.6	Pure white	5000	100	0.100	**2225 70 0**
2009 25 RW	9	2,0 x 25	16.1	8	11.6	Pure white	5000	100	0.110	**2225 71 9**
2009 35 RW	9	2,0 x 35	16.1	8	11.6	Pure white	4000	100	0.130	**2225 72 7**
2010 25 RW	10	2,0 x 25	17.7	8	12.7	Pure white	5000	100	0.130	**2225 80 8**
2010 35 RW	10	2,0 x 35	17.7	8	12.7	Pure white	4000	100	0.150	**2225 81 6**
2011 25 RW	11	2,0 x 25	19	9	14	Pure white	4000	100	0.140	**2225 90 5**
2011 35 RW	11	2,0 x 35	19	9	14	Pure white	3000	100	0.250	**2225 91 3**
2012 25 RW	12	2,0 x 25	19.8	9	14.8	Pure white	4000	100	0.150	**2226 01 4**
2012 35 RW	12	2,0 x 35	19.8	9	14.8	Pure white	3000	100	0.170	**2226 02 2**
2014 30 RW	14	2,5 x 30	24	11	18	Pure white	1500	50	0.430	**2226 10 3**
2014 40 RW	14	2,5 x 40	24	11	18	Pure white	1500	50	0.470	**2226 11 1**
2016 40 RW	16	2,5 x 40	26	12	20	Pure white	1500	50	0.490	**2226 21 9**
2016 50 RW	16	2,5 x 50	26	12	20	Pure white	1500	50	0.530	**2226 22 7**
2018 40 RW	18	2,5 x 40	28	13	22	Pure white	1000	25	0.550	**2226 30 8**
2020 40 RW	20	2,5 x 40	31	14	24.5	Pure white	750	25	0.740	**2226 40 5**

PP Polypropylene /100 pc.

ISO nail clip, short design.



ISO nail clip, black

Type	For cable Ø mm	For nail Ø x l mm	Dimension L mm	Dimension B mm	Dimension H mm	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2007 25 SW	7	2,0 x 25	13.7	8	9.4	Jet black	7500	100	0.100	**2232 14 6**
2008 25 SW	8	2,0 x 25	15	8	10.6	Jet black	5000	100	0.110	**2232 17 0**
2009 25 SW	9	2,0 x 25	16.1	8	11.6	Jet black	5000	100	0.160	**2232 21 9**
2010 25 SW	10	2,0 x 25	17.7	8	12.7	Jet black	5000	100	0.170	**2232 23 5**
2012 35 SW	12	2,0 x 35	19.8	9	14.8	Jet black	3000	100	0.170	**2232 31 6**

PP Polypropylene /100 pc.

ISO nail clip, short design.

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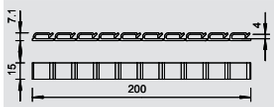
Cable clip

Cable clip

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
507	Light grey	100		100	1.200	**2327 10 4**

PS Polystyrene /100 pc.

Self-adhesive



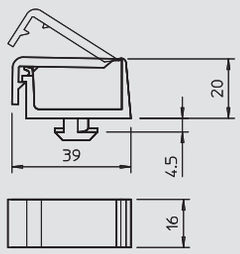
Clip cable tie, 1 chamber

Type	Dimension mm	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
935 CKB4,5NUT8	39 x 16 x 20	Black		10	0.700	**1124 49 2**

PA Polyamide /100 pc.

1 chamber, individual hammer, for cable fastening without additional cable ties, closeable; mounting in a groove with a quarter-turn.
For profiles / frames with 8 mm groove. (PV frames)

Capacity: 2x12 mm



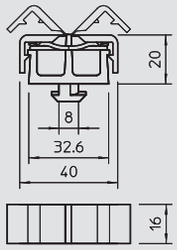
Clip cable tie, 2 chambers

Type	Dimension mm	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
934 CKB4,5NUT8	40 x 16 x 20	Black		10	0.700	**1124 49 0**

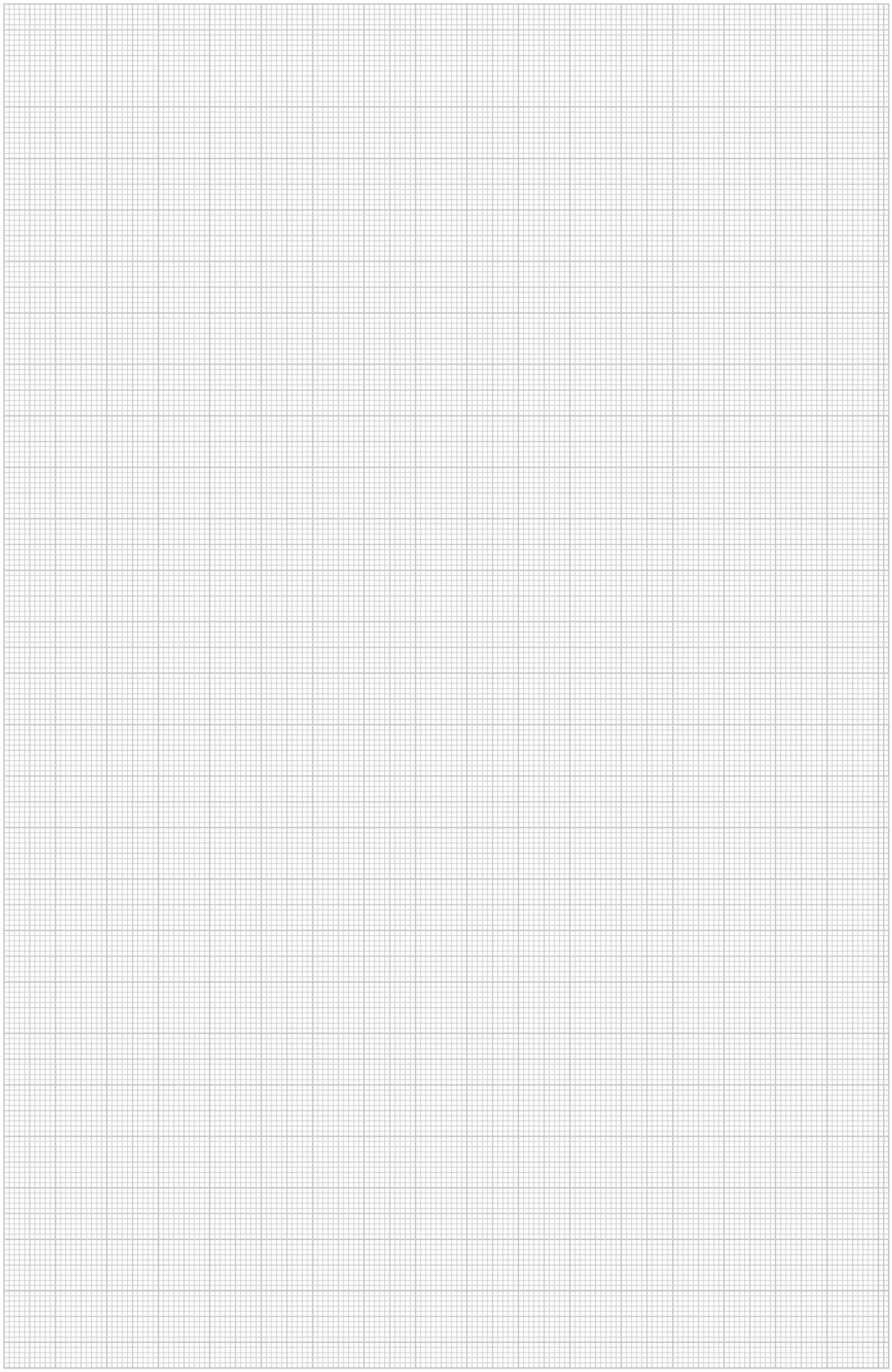
PA Polyamide /100 pc.

2 chambers, individual hammer, for cable fastening without additional cable ties, closeable; mounting in a groove with a quarter-turn.
For profiles / frames with 8 mm groove. (PV technology)

Capacity: 12 mm each



Always indicate the item number when ordering.



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Cable/pipe fastening systems, metal

	Quick Clip, aluminium		288
	Cable tidy	GRIP "M" 15 GRIP "M" 30 GRIP "M" 70	289 289 290
	Pressure clip	For 16 cables For 10 cables	291 291
	Fastening clip	Cable and pipe spacer clip	292
		Screw-in spacer clips	296
		Post crosspiece	299
		Fastening clip	300
		Heavy-duty cable clip	304
		Strain relief clip	307

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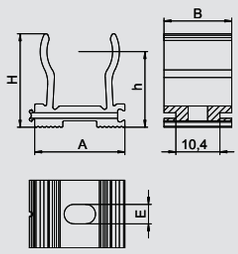
Quick clip, aluminium

Type	Nominal size	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2029 M16 ALU	M16	–		1	0.560	**2149 85 0**
2029 M25 ALU	M25	–		1	0.930	**2149 85 8**
2029 M32 ALU	M32	–		1	1.100	**2149 86 2**
2029 M40 ALU	M40	–		1	1.730	**2149 86 6**
2029 M50 ALU	M50	–		1	2.090	**2149 87 0**
2029 M63 ALU	M63	–		1	2.920	**2149 87 4**

Al Aluminium /100 pc.



OBO Quick clip, type 2029/... for all metric ALU pipe systems, as well as light-duty and heavy-duty metric insulation pipes. Suitable for mounting the OBO pipe system, material: aluminium.
Pipe centring aids allow optimum attachment of the pipe and automatically turn the clip into the correct position.
Universal fastening option; can be arranged.
Can be mounted on the profile rail, slot width 11 mm (type 2060 and 2061). Slot for side alignment during mounting with wood screw or knock-in anchor.
Size M16-M32 can be screwed onto an M6 thread.
Recommended fastening spacing 50–60 cm

G	A mm	B mm	E mm	H mm	h mm
M16	21	16	4.6	22	18
M16	21	16	4.6	22	18
M16	21	16	4.6	22	18
M16	21	16	4.6	22	18
M16	21	16	4.6	22	18
M16	21	16	4.6	22	18

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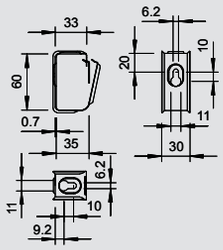
Always indicate the item number when ordering.

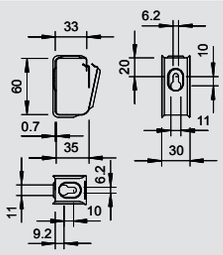


GRIP "M" 15

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 M 15 FS	15	50		50	3.700	**2207 02 8**

St Steel FS Strip-galvanised /100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Halogen-free, fire load-free. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For wall and ceiling mounting. Lock can be opened without tools. Type 2031 M 70 FS incl. fire protection screw tie MMS 6x50. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

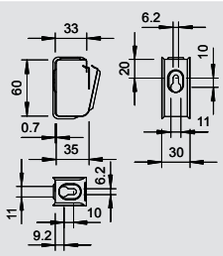


GRIP "M" 15 V2A

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 M 15 VA	15	50		50	3.000	**2207 08 0**

V2A Stainless steel, grade 304 /100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Halogen-free, fire load-free. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For wall and ceiling mounting. Lock can be opened without tools. Type 2031 M 70 FS incl. fire protection screw tie MMS 6x50. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

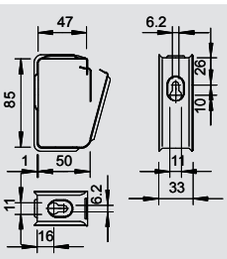


GRIP "M" 15 V4A

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 M 15 V4A	15	50		50	3.000	**2207 13 2**

V4A Stainless steel, grade 316 Ti /100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Halogen-free, fire load-free. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For wall and ceiling mounting. Lock can be opened without tools. Type 2031 M 70 FS incl. fire protection screw tie MMS 6x50. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

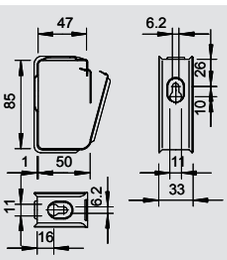


GRIP "M" 30

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 M 30 FS	30	25		25	6.200	**2207 03 6**

St Steel FS Strip-galvanised /100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Halogen-free, fire load-free. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For wall and ceiling mounting. Lock can be opened without tools. Type 2031 M 70 FS incl. fire protection screw tie MMS 6x50. Detailed information on the approved routing variants can be found in the appropriate testing documentation.



GRIP "M" 30 V2A

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 M 30 VA	30	25		25	6.500	**2207 08 8**

V2A Stainless steel, grade 304 /100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Halogen-free, fire load-free. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For wall and ceiling mounting. Lock can be opened without tools. Type 2031 M 70 FS incl. fire protection screw tie MMS 6x50. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

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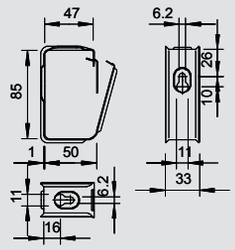
GRIP "M" 30 V4A

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 M 30 V4A	30	25		25	6.500	**2207 14 0**

V4A Stainless steel, grade 316 Ti /100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Halogen-free, fire load-free. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For wall and ceiling mounting. Lock can be opened without tools. Type 2031 M 70 FS incl. fire protection screw tie MMS 6x50. Detailed information on the approved routing variants can be found in the appropriate testing documentation.



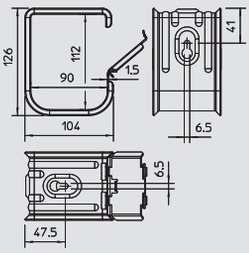
GRIP "M" 70

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 M 70 FS	70	10		10	34.500	**2207 06 0**

St Steel FS Strip-galvanised /100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Halogen-free, fire load-free. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For wall and ceiling mounting. Lock can be opened without tools. Type 2031 M 70 FS incl. fire protection screw tie MMS 6x50. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

Including fire protection bolt tie MMS 6 type MMS 6 x 50.

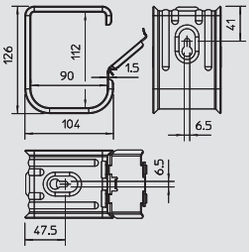


GRIP "M" 70 V2A

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 M 70 VA	70	10		10	37.000	**2207 11 2**

V2A Stainless steel, grade 304 /100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Halogen-free, fire load-free. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For wall and ceiling mounting. Lock can be opened without tools. Type 2031 M 70 FS incl. fire protection screw tie MMS 6x50. Detailed information on the approved routing variants can be found in the appropriate testing documentation.

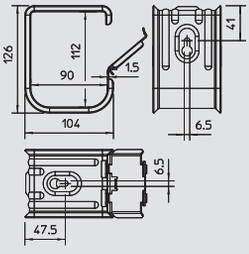


GRIP "M" 70 V4A

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2031 M 70 V4A	70	10		10	37.000	**2207 16 4**

V4A Stainless steel, grade 316 Ti /100 pc.

Metal cable tidy for high mechanical stability, even in case of fire. Halogen-free, fire load-free. Suitable for secure mounting above fire protection ceilings. Also approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For wall and ceiling mounting. Lock can be opened without tools. Type 2031 M 70 FS incl. fire protection screw tie MMS 6x50. Detailed information on the approved routing variants can be found in the appropriate testing documentation.



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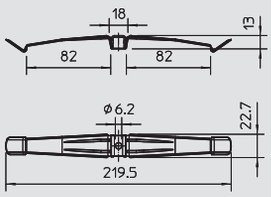
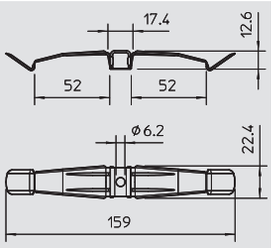


Pressure clip for 16 cables

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2033 M	16	25		25	2.310	**2204 00 0**

V2A Stainless steel, grade 301 /100 pc.

Metal pressure clip for space-saving mounting with high mechanical stability, even in case of fire. Halogen-free, fire load-free. Also suitable for secure mounting above fire protection ceilings. Tested and approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For ceiling mounting. Clamping height 10 mm – extendable to 13 mm with spacer. Fastening hole Ø 6 mm.
Detailed information on the approved routing variants can be found in the appropriate testing documentation.

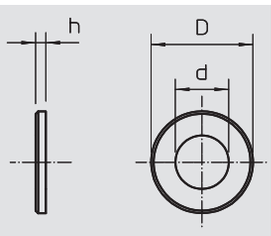


Pressure clip for 10 cables

Type	No. of conductors NYM 3 x 1.5	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2034 M	10	50		50	1.860	**2204 01 0**

V2A Stainless steel, grade 301 /100 pc.

Metal pressure clip for space-saving mounting with high mechanical stability, even in case of fire. Halogen-free, fire load-free. Also suitable for secure mounting above fire protection ceilings. Tested and approved as a cable-specific variant for electrical function maintenance to DIN 4102 Part 12. For ceiling mounting. Clamping height 10 mm – extendable to 13 mm with spacer. Fastening hole Ø 6 mm.
Detailed information on the approved routing variants can be found in the appropriate testing documentation.



Spacer

Type	Dimension D mm	Dimension d mm	Dimension h mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2033 D 15x3 G	15	6.4	3	3000		50	0.340	**2205 09 7**

St Steel G Electrogalvanised /100 pc.

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

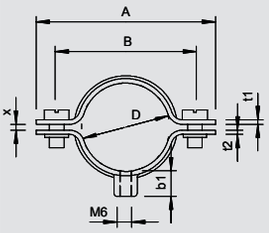
Type	Clamping range D mm	Hole size mm	Material thickness mm	Size	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
732 6 GTP	5-6	M6	1	-	M5 x 10	1200		100	1.160	**1360 05 1**
732 8 GTP	7-8	M6	1	-	M5 x 10	1200		100	1.310	**1360 08 6**
732 10 GTP	9-10	M6	1	-	M5 x 12	1000		100	1.360	**1360 10 8**
732 12 GTP	10.5-12	M6	1	M12	M5 x 12	1000		100	1.460	**1360 12 4**
732 14 GTP	12.5-14	M6	1	PG7	M5 x 12	1000		100	1.480	**1360 14 0**
732 15 GTP	13.5-15	M6	1	PG9	M5 x 12	1000		100	1.530	**1360 15 9**
732 16 GTP	14.5-16	M6	1	M16	M5 x 12	1000		100	1.590	**1360 16 7**
732 18 GTP	16.5-18	M6	1	PG11	M5 x 12	1000		100	1.620	**1360 18 3**
732 20 GTP	18.5-20	M6	1	M20	M5 x 12	600		50	1.730	**1360 20 5**
732 22 GTP	20-22	M6	1	PG13,5	M5 x 12	500		50	1.780	**1360 22 1**
732 24 GTP	22-24	M6	1	PG16	M5 x 12	500		50	1.840	**1360 24 8**
732 26 GTP	24-26	M6	1	M25	M5 x 12	500		50	1.920	**1360 26 4**
732 28 GTP	26-28	M6	1.5	PG21	M5 x 12	500		50	2.840	**1360 28 0**
732 30 GTP	28-30	M6	1.5	PG21	M5 x 12	400		50	3.040	**1360 30 2**
732 33 GTP	31-33	M6	1.5	M32	M5 x 12	250		25	3.120	**1360 33 7**
732 35 GTP	33-35	M6	1.5	-	M5 x 12	250		25	3.280	**1360 35 3**
732 38 GTP	36-38	M6	1.5	PG29	M5 x 12	250		25	3.490	**1360 38 8**
732 40 GTP	38-40	M6	1.5	M40	M5 x 12	250		25	3.600	**1360 39 6**
732 42 GTP	40-42	M6	1.5	M40	M5 x 12	250		25	3.840	**1360 42 6**
732 45 GTP	43-45	M6	1.5	-	M5 x 12	250		25	3.990	**1360 45 0**
732 48 GTP	46-48	M6	1.5	PG36	M5 x 12	250		25	4.040	**1360 48 5**
732 50 GTP	48-50	M6	1.5	M50	M5 x 14	200		25	4.160	**1360 50 7**
732 60 GTP	58-60	M6	1.5	PG48	M5 x 14	200		25	4.960	**1360 60 4**
732 63 GTP	61-63	M6	1.5	M63	M5 x 14	200		25	5.000	**1360 63 9**

St Steel GTP Electrogalvanised, transparently passivated /100 pc.

With M6 thread.

Important dimensions, cable and pipe spacer clip

D mm	A mm	B mm	x mm	b1 mm	t1 mm	t2 mm	M
5–6	35	23	1	15	1	1.25	M5 x 10
7–8	34	22	1	18	1	1.25	M5 x 10
9–10	36	24	1	18	1	1.25	M5 x 12
10.5–12	38	26	1.5	18	1	1.25	M5 x 12
12.5–14	40	28	1.5	18	1	1.25	M5 x 12
13.5–15	41	29	1.5	18	1	1.25	M5 x 12
14.5–16	42	30	1.5	18	1	1.25	M5 x 12
16.5–18	44	22	1	18	1	1.25	M5 x 12
18.5–20	46	34	1.5	18	1	1.25	M5 x 12
20–22	48	36	2	18	1	1.25	M5 x 12
22–24	50	38	2	18	1	1.25	M5 x 12
24–26	52	40	2	18	1	1.25	M5 x 12
26–28	59	45	2	18	1.5	1.5	M5 x 12
28–30	61	47	2	18	1.5	1.5	M5 x 12
31–33	64	50	2	18	1.5	1.5	M5 x 12
33–35	66	52	2	18	1.5	1.5	M5 x 12
36–38	69	55	2	18	1.5	1.5	M5 x 12
38–40	71	57	2	18	1.5	1.5	M5 x 12
40–42	73	59	2	18	1.5	1.5	M5 x 12
43–45	76	62	2	18	1.5	1.5	M5 x 12
46–48	79	65	2	18	1.5	1.5	M5 x 12
48–50	81	67	2	18	1.5	1.5	M5 x 14
58–60	91	77	2	18	1.5	1.5	M5 x 14
61–63	94	80	2	18	1.5	1.5	M5 x 14



Always indicate the item number when ordering.

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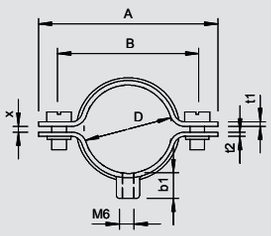

Cable and pipe spacer clip, V4A

Type	Clamping range D mm	Hole size mm	Material thickness mm	Size	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
732 6 V4A	5-6	M6	1	-	M5 x 10	–		1	–	**1360 64 4**
732 8 V4A	7-8	M6	1	-	M5 x 10	–		1	–	**1360 64 6**
732 10 V4A	9-10	M6	1	-	M5 x 12	–		1	–	**1360 64 8**
732 12 V4A	10.5-12	M6	1	M12	M5 x 12	–		1	–	**1360 65 0**
732 14 V4A	12.5-14	M6	1	PG7	M5 x 12	–		1	–	**1360 65 2**
732 15 V4A	13.5-15	M6	1	PG9	M5 x 12	–		1	–	**1360 65 4**
732 16 V4A	14.5-16	M6	1	M16	M5 x 12	–		1	–	**1360 65 6**
732 18 V4A	16.5-18	M6	1	PG11	M5 x 12	–		1	–	**1360 65 8**
732 20 V4A	18.5-20	M6	1	M20	M5 x 12	–		1	–	**1360 66 0**
732 22 V4A	20-22	M6	1	PG13,5	M5 x 12	–		1	–	**1360 66 2**
732 24 V4A	22-24	M6	1	PG16	M5 x 12	–		1	–	**1360 66 4**
732 26 V4A	24-26	M6	1	M25	M5 x 12	–		1	–	**1360 66 6**
732 28 V4A	26-28	M6	1.5	PG21	M5 x 12	–		1	–	**1360 66 8**
732 30 V4A	28-30	M6	1.5	PG21	M5 x 12	–		1	–	**1360 67 0**
732 33 V4A	31-33	M6	1.5	M32	M5 x 12	–		1	–	**1360 67 2**
732 35 V4A	33-35	M6	1.5	-	M5 x 12	–		1	–	**1360 67 4**
732 38 V4A	36-38	M6	1.5	PG29	M5 x 12	–		1	–	**1360 67 6**
732 40 V4A	38-40	M6	1.5	M40	M5 x 12	–		1	–	**1360 67 8**
732 42 V4A	40-42	M6	1.5	M40	M5 x 12	–		1	–	**1360 68 0**
732 45 V4A	43-45	M6	1.5	-	M5 x 12	–		1	–	**1360 68 2**
732 48 V4A	46-48	M6	1.5	PG36	M5 x 12	–		1	–	**1360 68 4**
732 50 V4A	48-50	M6	1.5	M50	M5 x 14	–		1	–	**1360 68 6**
732 60 V4A	58-60	M6	1.5	PG48	M5 x 14	–		1	–	**1360 68 8**
732 63 V4A	61-63	M6	1.5	M63	M5 x 14	–		1	–	**1360 69 0**

V4A Stainless steel, grade 316 Ti /100 pc.

With thread M6.

D mm	A mm	B mm	x mm	b1 mm	t1 mm	t2 mm	M
5–6	35	23	1	15	1	1.25	M5 x 10
7–8	34	22	1	18	1	1.25	M5 x 10
9–10	36	24	1	18	1	1.25	M5 x 12
10.5–12	38	26	1.5	18	1	1.25	M5 x 12
12.5–14	40	28	1.5	18	1	1.25	M5 x 12
13.5–15	41	29	1.5	18	1	1.25	M5 x 12
14.5–16	42	30	1.5	18	1	1.25	M5 x 12
16.5–18	44	22	1	18	1	1.25	M5 x 12
18.5–20	46	34	1.5	18	1	1.25	M5 x 12
20–22	48	36	2	18	1	1.25	M5 x 12
22–24	50	38	2	18	1	1.25	M5 x 12
24–26	52	40	2	18	1	1.25	M5 x 12
26–28	59	45	2	18	1.5	1.5	M5 x 12
28–30	61	47	2	18	1.5	1.5	M5 x 12
31–33	64	50	2	18	1.5	1.5	M5 x 12
33–35	66	52	2	18	1.5	1.5	M5 x 12
36–38	69	55	2	18	1.5	1.5	M5 x 12
38–40	71	57	2	18	1.5	1.5	M5 x 12
40–42	73	59	2	18	1.5	1.5	M5 x 12
43–45	76	62	2	18	1.5	1.5	M5 x 12
46–48	79	65	2	18	1.5	1.5	M5 x 12
48–50	81	67	2	18	1.5	1.5	M5 x 14
58–60	91	77	2	18	1.5	1.5	M5 x 14
61–63	94	80	2	18	1.5	1.5	M5 x 14

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Spacer fastening clip

Cable and pipe spacer clip

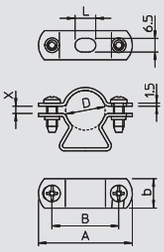
Type	Clamping range D mm	Hole size mm	Material thickness mm	Size	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
733 13 G	11-13	6,5 x 10	1.5	M12	M5 x 12	600		50	2.310	**1361 13 9**
733 16 G	14-16	6,5 x 10	1.5	M16	M5 x 14	500		50	2.430	**1361 16 3**
733 19 G	17-19	6,5 x 10	1.5	Pg11	M5 x 14	500		50	2.500	**1361 19 8**
733 21 G	19-21	6,5 x 10	1.5	M20	M5 x 14	500		50	2.730	**1361 20 1**
733 23 G	21-23	6,5 x 10	1.5	Pg16	M5 x 14	500		50	2.870	**1361 23 6**
733 29 G	24-29	6,5 x 10	1.5	M25	M5 x 18	450		50	3.480	**1361 29 5**
733 38 G	30-38	6,5 x 10	1.5	M32	M5 x 18	250		25	4.040	**1361 38 4**
733 48 G	39-48	6,5 x 10	1.5	M40	M5 x 18	300		25	4.810	**1361 48 1**
733 54 G	48-54	6,5 x 14	1.5	M50	M5 x 18	300		25	5.800	**1361 51 1**
733 61 G	53-61	6,5 x 14	1.5	Pg48	M5 x 18	240		20	6.370	**1361 61 9**
733 63 G	63	8 x 18	2	M63	M5 x 18	160		20	6.940	**1361 63 5**

St Steel G Electrogalvanised /100 pc.

Steel bolt material. * Size M16 are not suitable for nail device.
* Sizes M16 to PG16 not suitable for bolt-firing tool.

Important dimensions, cable and pipe spacer clip

D mm	A mm	B mm	L mm	b mm	x mm
11–13	39	26	10	14	2.5
14–16	43	30	10	14	3
17–19	45	32	10	14	3.5
19-21	50	37	10	14	2
21–23	52	39	10	14	2.5
24–29	58	42	10	16	7
30–38	70	54	10	16	10
39–48	80	64	14	16	12.5
48–54	86	68	14	18	7.5
53–61	96	78	14	18	10
63	101	83	18	16	3



Cable and pipe spacer clip

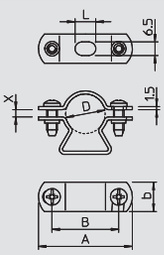
Type	Hole size mm	Material thickness mm	Size	Bolt	Shipping box pcs	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
733 13 FT	6,5 x 10	1.5	M 12	M5 x 12	600	11-13	50	2.310	**1361 09 1**
733 16 FT	6,5 x 10	1.5	M 16	M5 x 14	500	14-16	50	2.430	**1361 09 4**
733 19 FT	6,5 x 10	1.5	Pg 11	M5 x 14	500	17-19	50	2.500	**1361 09 7**
733 21 FT	6,5 x 10	1.5	M 20	M5 x 14	500	19-21	50	2.730	**1361 10 0**
733 23 FT	6,5 x 10	1.5	Pg 16	M5 x 14	500	21-23	50	2.870	**1361 10 3**
733 29 FT	6,5 x 10	1.5	M 25	M5 x 18	450	24-29	50	3.480	**1361 10 6**
733 38 FT	6,5 x 10	1.5	M 32	M5 x 18	250	30-38	25	4.040	**1361 10 9**
733 48 FT	6,5 x 10	1.5	M 40	M5 x 18	300	39-48	25	4.810	**1361 11 2**
733 54 FT	6,5 x 10	1.5	M 50	M5 x 18	300	48-54	25	5.400	**1361 11 7**
733 61 FT	6,5 x 10	1.5	Pg48	M5 x 18	240	53-61	20	6.100	**1361 11 5**
733 63 FT	6,5 x 10	2	M 63	M5 x 18	160	63	20	7.250	**1361 11 8**

St Steel FT Hot-dip galvanised /100 pc.

Bolt material: steel.
* Size M16 not suitable for nail device.
* Sizes M16 to PG16 not suitable for bolt-firing tool and nail device.

Important dimensions, cable and pipe spacer clip

D mm	A mm	B mm	L mm	b mm	x mm
11 - 13	39	26	10	14	2.5
14 - 16	43	30	10	14	3
17 - 19	45	32	10	14	3.5
19 - 21	50	37	10	14	2
21- 23	52	39	10	14	2.5
24 - 29	58	42	10	16	7
30 - 38	70	54	10	16	10
39 - 48	80	64	14	16	12.5
53–61	96	78	14	18	10
63	101	83	18	16	3
48–54	86	68	14	18	7.5



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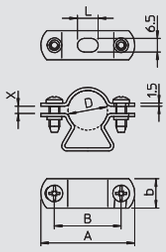


Cable and pipe spacer clip, aluminium

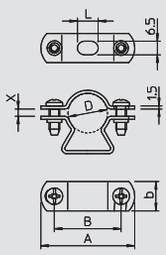
Type	Clamping range D mm	Hole size mm	Material thickness mm	Size	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
733 16 ALU	14-16	6,5 x 10	1.5	M16	M5 x 12	500		50	0.980	**1362 52 6**
733 19 ALU	17-19	6,5 x 10	1.5	Pg11	M5 x 16	500		50	1.020	**1362 53 4**
733 21 ALU	19-21	6,5 x 10	1.5	M20	M5 x 16	500		50	1.100	**1362 54 2**
733 29 ALU	24-29	6,5 x 10	1.5	M25	M5 x 16	450		50	1.390	**1362 56 9**
733 38 ALU	30-38	6,5 x 10	1.5	M32	M5 x 18	250		25	1.620	**1362 57 7**
733 48 ALU	39-48	6,5 x 10	1.5	M40	M5 x 18	300		25	1.950	**1362 58 5**
733 54 ALU	48-54	6,5 x 14	1.5	M50	M5 x 18	300		25	2.320	**1362 59 3**
733 63 ALU	63	8 x 18	2	M63	M5 x 18	160		20	2.990	**1362 61 5**

Al Aluminium /100 pc.

Bolt material: VA
* Size M16 not suitable for nail device.
* Sizes M16 to PG16 not suitable for bolt-firing tool and nail device.

Important dimensions, cable and pipe spacer clip

D mm	A mm	B mm	L mm	b mm	x mm
14–16	43	30	10	14	3
17–19	45	32	10	14	3.5
19–21	50	37	10	14	2
24–29	58	42	10	16	7
30–38	70	54	10	16	10
39–48	80	64	14	16	12.5
48–54	86	68	14	18	7.5
63	101	83	18	16	3



Cable and pipe spacer clip, V2A

Type	Clamping range D mm	Hole size mm	Material thickness mm	Size	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
733 16 VA	14-16	6,5 x 10	1.5	M16	M5 x 12	500		50	2.430	**1362 01 1**
733 19 VA	17-19	6,5 x 10	1.5	Pg11	M5 x 16	500		50	2.800	**1362 03 8**
733 21 VA	19-21	6,5 x 10	1.5	M20	M5 x 16	500		50	2.740	**1362 04 6**
733 23 VA	21-23	6,5 x 10	1.5	Pg16	M5 x 16	500		50	2.800	**1362 05 4**
733 29 VA	24-29	6,5 x 10	1.5	M25	M5 x 16	450		50	3.480	**1362 06 2**
733 38 VA	30-38	6,5 x 10	1.5	M32	M5 x 18	250		25	4.500	**1362 07 0**
733 48 VA	39-48	6,5 x 10	1.5	M40	M5 x 18	300		25	5.200	**1362 08 9**
733 54 VA	48-54	6,5 x 14	1.5	M50	M5 x 18	300		25	5.800	**1362 09 7**
733 61 VA	53-61	6,5 x 14	1.5	Pg48	M5 x 18	240		20	6.800	**1362 10 0**
733 63 VA	63	8 x 18	2	M63	M5 x 18	160		20	6.940	**1362 12 7**

V2A Stainless steel, grade 304 /100 pc.

Bolt material: VA
* Size M16 not suitable for nail device.
* Sizes M16 to PG16 not suitable for bolt-firing tool.

Important dimensions, cable and pipe spacer clip

D mm	A mm	B mm	L mm	b mm	x mm
14–16	43	30	10	14	3
17–19	45	32	10	14	3.5
19–21	50	37	10	14	2
21–23	52	39	10	14	2.5
24–29	58	42	10	16	7
30–38	70	54	10	16	10
39–48	80	64	14	16	12.5
48–54	86	68	14	18	7.5
53–61	96	78	14	18	10
63	101	83	18	16	3

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Spacer fastening clip

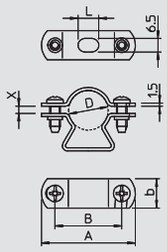
Cable and pipe spacer clip, V4A

Type	Hole size mm	Material thickness mm	Size	Bolt	Shipping box pcs	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
733 13 V4A	6,5 x 10	1.5	M 12	M5 x 12	–	11-13	1	2.310	**1361 64 3**
733 16 V4A	6,5 x 10	1.5	M 16	M5 x 14	–	14-16	1	2.430	**1361 64 7**
733 19 V4A	6,5 x 10	1.5	Pg 11	M5 x 14	–	17-19	1	2.500	**1361 65 1**
733 21 V4A	6,5 x 10	1.5	M 20	M5 x 14	–	19-21	1	2.730	**1361 65 5**
733 23 V4A	6,5 x 10	1.5	Pg 16	M5 x 14	–	21-23	1	2.710	**1361 65 9**
733 29 V4A	6,5 x 10	1.5	M 25	M5 x 18	–	24-29	1	3.420	**1361 66 3**
733 38 V4A	6,5 x 10	1.5	M 32	M5 x 18	–	30-38	1	4.040	**1361 66 7**
733 48 V4A	6,5 x 10	1.5	M 40	M5 x 18	–	39-48	1	4.810	**1361 67 1**
733 54 V4A	6,5 x 10	1.5	M 50	M5 x 18	–	48-54	1	5.800	**1361 67 5**
733 61 V4A	6,5 x 10	1.5	Pg48	M5 x 18	–	53-61	1	6.370	**1361 67 9**
733 63 V4A	6,5 x 10	2	M 63	M5 x 18	–	63	1	6.940	**1361 68 3**

V4A Stainless steel, grade 316 Ti /100 pc.

Steel bolt material. * Size M16 are not suitable for nail device.
* Sizes M16 to PG16 not suitable for bolt-firing tool.

D mm	A mm	B mm	L mm	b mm	x mm
11 - 13	39	26	10	14	2.5
14 - 16	43	30	10	14	3
17 - 19	45	32	10	14	3.5
19 - 21	50	37	10	14	2
21- 23	52	39	10	14	2.5
24 - 29	58	42	10	16	7
30 - 38	70	54	10	16	10
39 - 48	80	64	14	16	12.5
48–54	86	68	14	18	7.5
53–61	96	78	14	18	10
63	101	83	18	16	3



Screw-in spacer clip

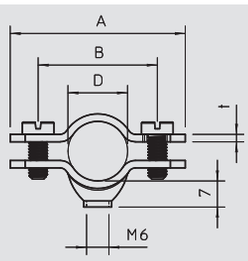
Type	Clamping range D mm	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
731 W 12 G	8-12	M5 x 12	600		50	2.470	**1366 12 2**
731 W 16 G	12-16	M5 x 12	500		50	2.820	**1366 16 5**
731 W 20 G	16-20	M5 x 14	500		50	3.120	**1366 20 3**
731 W 25 G	20-25	M5 x 14	500		50	3.480	**1366 25 4**
731 W 30 G	25-30	M5 x 14	250		25	4.060	**1366 30 0**
731 W 35 G	30-35	M5 x 18	250		25	4.340	**1366 35 1**

St Steel G Electrogalvanised /100 pc.

With M6 thread.

Important dimensions, screw-in spacer clip

D mm	A mm	B mm	t mm
8–12	43	28	2
12–16	47	32	2
16–20	51	36	2
20–25	58	43	2
25–30	64	49	2
30–35	65	50	18



Screw-in spacer clip, copper-plated

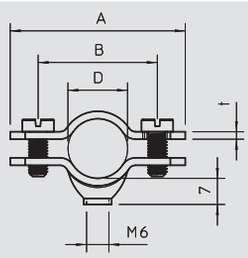
Type	Clamping range D mm	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
731 W 12 CU	8-12	M5 x 12	600		50	2.470	**1366 62 9**
731 W 16 CU	12-16	M5 x 14	500		50	2.820	**1366 66 1**

St Steel Cu Copper-plated /100 pc.

With M6 thread.

Important dimensions, screw-in spacer clip

D mm	A mm	B mm	t mm
8–12	43	28	2
12–16	47	32	2



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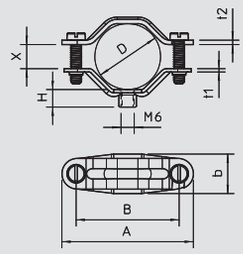


Screw-in spacer clip, universal

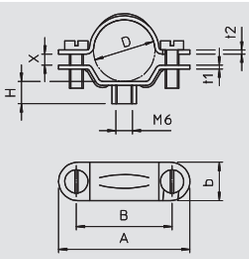
Type	Clamping range D mm	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2070 M6 G	12-20	M5 x 14	500		50	2.300	**1380 02 8**
2071 M6 G	20-30	M5 x 20	600		50	3.310	**1380 22 2**
2072 M6 G	30-44	M5 x 22	300		25	5.990	**1380 42 7**
2073 M6 G	44-60	M6 x 25	240		20	9.660	**1380 72 9**

St Steel G Electrogalvanised /100 pc.

With M6 thread.
Universal clip with large tensioning area.

Important dimensions, screw-in spacer clip

D mm	A mm	B mm	b mm	t1 mm	t2 mm	H mm	x mm	M
12–20	48	35	14	1.5	1.5	9	9	M5 x 14
20–30	60	47	14	1.5	2	7.5	11	M5 x 20
30–44	79	64	16	2	2	8	15	M5 x 22
44–60	102	86	18	2	2	8	18	M6 x 25



Screw-in spacer clip, universal

Type	Bolt	Shipping box pcs	Size	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2900 M6 13-16 G	M5 x 14	500	M 16	13.5-16	50	2.280	**1383 09 4**
2900 M6 16-19 G	M5 x 14	500	Pg 11	16.5-19	50	2.320	**1383 11 6**
2900 M6 18-21 G	M5 x 14	500	M 20	18-21	50	2.340	**1383 13 2**
2900 M6 19-23 G	M5 x 14	500	PG 16	19-23	50	2.400	**1383 16 7**
2900 M6 24-29 G	M5 x 14	400	M 25	24-29	50	3.320	**1383 21 3**
2900 M6 33-38 G	M5 x 14	400	M 32	30-34	50	4.950	**1383 31 0**
2900 M6 30-34 G	M5 x 14	300	Pg 29	33-38	25	5.830	**1383 29 9**
2900 M6 39-42 G	M5 x 16	300	M 40	39-42	25	5.490	**1383 41 8**
2900 M6 43-48 G	M5 x 14	240	Pg 36	43-48	20	6.330	**1383 36 1**
2900 M6 49-55 G	M6 x 15	240	M 50	49-55	20	9.300	**1383 42 6**
2900 M6 54-60 G	M6 x 15	240	Pg 48	54-60	20	8.970	**1383 48 5**
2900 M6 61-64 G	M6 x 16	240	M 63	61-64	20	8.090	**1383 50 7**

St Steel G Electrogalvanised /100 pc.

With M6 thread.

Important dimensions, screw-in spacer clip

G	D mm	A mm	B mm	b mm	t1 mm	t2 mm	H mm	x mm	M
M16	13.5–16	48	35	14	1.5	1.5	9	2.2	M5 x 14
Pg 11	16.5–19	48	35	14	1.5	1.5	9	2.6	M5 x 14
M20	18–21	48	35	14	1.5	1.5	9	2.9	M5 x 14
Pg 16	19–23	48	35	14	1.5	1.5	9	4	M5 x 14
M25	24–29	60	47	14	1.5	2	7.5	4.6	M5 x 14
M32	30–34	68	54	16	2	2	8	5	M5 x 14
Pg 29	33–38	79	64	16	2	2	8	5	M5 x 14
M40	39–42	79	64	16	2	2	8	5	M5 x 16
Pg 36	43–48	79	64	16	2	2	8	5	M5 x 14
M50	49–55	102	86	18	2	2	8	5.5	M6 x 15
Pg 48	54–60	102	86	18	2	2	8	6.3	M6 x 15
M63	61–64	106.5	90.5	18	2	2	6.5	6	M6 x 16

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Spacer fastening clip

Screw-in spacer clip, heavy-duty version M6

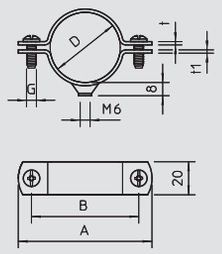
Type	Clamping range D mm	Size	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2900WM6 13.5 FT	12.5-13.5	1/4"	300		25	2.860	**1385 00 3**
2900WM6 17 FT	16-17	3/8"	300		25	4.910	**1385 01 1**
2900WM6 21.5 FT	19-21.5	1/2"	250		25	5.100	**1385 03 8**
2900WM6 27 FT	24.5-27	3/4"	250		25	5.600	**1385 05 4**
2900WM6 33.5 FT	30.5-33.5	1"	200		25	6.140	**1385 06 2**
2900WM6 42.5 FT	39.5-42.5	1 1/4"	175		25	7.640	**1385 08 9**
2900WM6 48.5 FT	45.5-48.5	1 1/2"	175		25	8.870	**1385 11 9**
2900WM6 54 FT	51-54	1 3/4"	180		20	10.400	**1385 12 7**
2900WM6 60 FT	56-60	2"	135		15	11.720	**1385 13 5**

St Steel FT Hot-dip galvanised /100 pc.

Can be screwed onto M6 thread.

Important dimensions, screw-in spacer clip

D mm	A mm	B mm	t mm	t1 mm	x mm	G
12.5–13.5	48	32	2	2	1	M6 x 16
16.0–17.0	52	36	2	2	1	M6 x 16
19.0–21.5	56	40	2	2	2.5	M6 x 16
24.5–27.0	62	46	2	2	2.5	M6 x 16
30.5–33.5	70	54	2	2	3	M6 x 16
39.5–42.5	81	65	2	2	3	M6 x 18
45.5–48.5	88	72	2	2.5	3	M6 x 18
51.0–54.0	96	80	2.5	2.5	3	M6 x 18
56.0–60.0	105	89	2.5	2.5	4	M6 x 18



Screw-in spacer clip, heavy-duty version M8

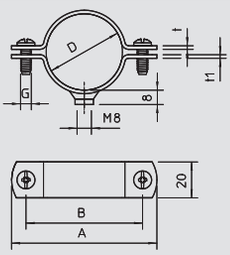
Type	Clamping range D mm	Size	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2900WM8 17 FT	16-17	3/8"	300		25	5.040	**1387 01 4**
2900WM8 21.5 FT	19-21.5	1/2"	250		25	5.770	**1387 03 0**
2900WM8 27 FT	24.5-27	3/4"	250		25	6.140	**1387 05 7**
2900WM8 33.5 FT	30.5-33.5	1"	200		25	6.860	**1387 06 5**
2900WM8 42.5 FT	39.5-42.5	1 1/4"	175		25	9.000	**1387 08 1**
2900WM8 48.5 FT	45.5-48.5	1 1/2"	175		25	9.280	**1387 11 1**
2900WM8 60 FT	56-60	2"	135		15	11.350	**1387 13 8**
2900WM8 75.5 FT	71.5-75.5	2 1/2"	50		50	21.000	**1387 15 4**
2900WM8 88 FT	83-88	3"	50		50	23.800	**1387 17 0**

St Steel FT Hot-dip galvanised /100 pc.

Can be screwed onto M8 thread.

Important dimensions, screw-in spacer clip

D mm	A mm	B mm	t mm	t1 mm	x mm	M
16.0–17.0	52	36	2	2.5	1	M6 x 16
19.0–21.5	56	40	2	2.5	2.5	M6 x 16
24.5–27.0	62	46	2	2.5	2.5	M6 x 16
30.5–33.5	70	54	2	2.5	3	M6 x 16
39.5–42.5	81	65	2	2.5	3	M6 x 18
45.5–48.5	88	72	2	2.5	3	M6 x 18
56.0–60.0	105	89	2.5	2.5	4	M6 x 18
71.5–75.5	125	105	3	3	4	M6 x 20
83.0–88.0	138	118	3	3	5	M6 x 20



Always indicate the item number when ordering.

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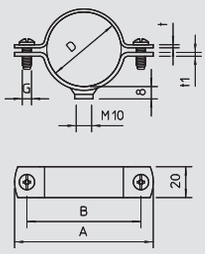


Screw-in spacer clip, heavy-duty version M10

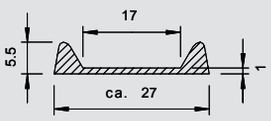
Type	Clamping range D mm	Shipping box pcs	Size	Pack. pcs	Weight kg/100 pcs.	Item No.
2900WM10 21.5 FT	19-21.5	250	1/2"	25	5.770	**1388 03 7**
2900WM10 27 FT	24.5-27	250	3/4"	25	6.140	**1388 05 3**
2900WM10 33.5 FT	30.5-33.5	200	1"	25	6.860	**1388 06 1**
2900WM10 48.5 FT	45.5-48.5	175	1 1/2"	25	9.280	**1388 11 8**
2900WM10 60 FT	56-60	135	2"	15	11.350	**1388 13 4**
2900WM10 75 FTSO	71.5-75.5	50	2 1/2"	50	22.160	**1388 37 1**
2900WM10 88 FTSO	83-88	50	3"	50	24.450	**1388 39 8**
2900WM10 139FTSO	130-140	25	5"	25	32.500	**1388 42 8**

St Steel FT Hot-dip galvanised /100 pc.

Can be screwed onto M10 thread.

Important dimensions, screw-in spacer clip

D mm	A mm	B mm	t mm	t1 mm	x mm	G
19.0–21.5	56	40	2	2.5	2.5	M6 x 16
24.5–27.0	62	46	2	2.5	2.5	M6 x 16
30.5–33.5	70	54	2	2.5	3	M6 x 16
45.5–48.5	88	72	2	2.5	3	M6 x 18
56.0–60.0	105	89	2.5	2.5	4	M6 x 18
71.5–75.5	125	105	3	3	4	M6 x 20
83.0–88.0	138	118	3	3	5	M6 x 20
130–140	190	170	3	3	10	M6 x 25

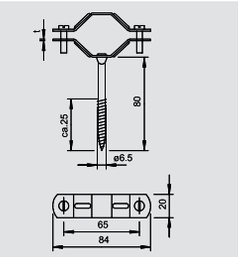


Inlay strip

Type		Pack. m	Weight kg/100 m	Item No.
2985 GR		25	6.000	**2357 05 4**

/100 m

For clips of up to 25 mm material width.
Inlay strip for pipe clamps and screw-in spacer clips to create fixed points.



Post crosspiece

Type	Clamping range D mm	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1060 26-45 FT	26-45	M5 x 30	100		100	10.500	**1310 61 5**
1060 45-68 FT	45-68	M6 x 35	100		100	14.300	**1310 65 8**

St Steel FT Hot-dip galvanised /100 pc.

With wood screw thread 6.5 x 80 mm (thread length approx. 25 mm).
Screws made of electrogalvanised steel.

Important dimensions, post crosspiece

D mm	A mm	B mm	b mm	t mm	M
26–45	84	65	20	1.5	M5 x 30
45–68	115	95	20	1.5	M6 x 35

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Fastening clip, light-duty

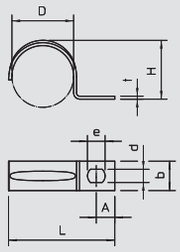
Type	For Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
604 3 G	3	12000		100	0.050	**1003 03 8**
604 4 G	4	12000		100	0.070	**1003 04 6**
604 5 G	5	5000		100	0.080	**1003 05 4**
604 6 G	6	5000		100	0.100	**1003 06 2**
604 7 G	7	5000		100	0.120	**1003 07 0**
604 8 G	8	5000		100	0.120	**1003 08 9**
604 9 G	9	5000		100	0.140	**1003 09 7**
604 10 G	10	4800		100	0.150	**1003 10 0**
604 11 G	11	4800		100	0.270	**1003 11 9**
604 12 G	12	5000		100	0.240	**1003 12 7**
604 13 G	13	5000		100	0.280	**1003 13 5**
604 16 G	16	3900		100	0.350	**1003 17 8**
604 19 G	19	1800		100	0.410	**1003 19 4**
604 20 G	20	1800		100	0.430	**1003 20 8**
604 21 G	21	3000		100	0.450	**1003 21 6**
604 23 G	23	2400		100	0.490	**1003 23 2**
604 25 G	25	1000		100	0.560	**1003 25 9**
604 28 G	28	1000		100	0.870	**1003 28 3**
604 32 G	32	800		100	1.420	**1003 32 1**
604 35 G	35	800		100	1.360	**1003 35 6**
604 37 G	37	800		100	1.570	**1003 37 2**
604 40 G	40	1200		100	1.860	**1003 40 2**
604 47 G	47	500		50	2.480	**1003 46 1**

St Steel G Electrogalvanised /100 pc.

Single-lobe fastening clip for cables and pipes.
* Sizes 3 and 4 not suitable for nail device.
* Sizes 3 to 21 not suitable for bolt-firing tool.

Important dimensions, fastening clip

D mm	L mm	H mm	b mm	t mm	d mm	e mm	A mm
3	12	2.4	7	0.7	4.5	6	4
4	14	3.3	7	0.7	4.5	6	4
5	16.5	4.5	7	0.7	4.5	6	5
6	17.5	5.2	8	0.7	4.5	6	5
7	19.5	6.5	8	0.7	4.5	6	5
8	21	7	8	0.7	4.5	6	5.5
9	21.5	8	8	0.7	4.5	6	5.75
10	22	9	8	0.7	4.5	6	5
11	24	10	10	1	4.5	6	5.5
12	27	11	10	0.7	4.5	6	6.5
13	27	11.5	10	1	4.5	6	6
16	31	14.5	10	1	4.5	6	6.5
19	33	17	10	1	4.5	6	6.5
20	35	18	10	1	4.5	6	6.3
21	36	19	10	1	4.5	6	6.3
23	39	21.5	10	1	4.5	6	7
28	45	24.8	15	1	4.5	6	7
35	54	30	14	1.5	5.5	7	8.75
37	56	34	14	1.5	5.5	7	7.5
40	63	38	14	1.5	5.5	7	10.5
47	69	43.8	14	1.5	5.5	7	10
25	41.3	23	15	1	4.5	6	7
32	48.8	30	15	1.5	5.5	7	8



Always indicate the item number when ordering.

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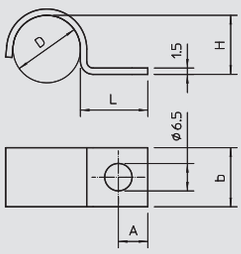


Fastening clip, medium-duty 5–18 mm

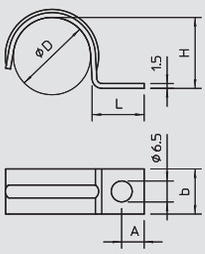
Type	For Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1015 5 G	5	3000		100	0.330	**1009 02 8**
1015 6 G	6	2400		100	0.390	**1009 03 6**
1015 7 G	7	2000		100	0.420	**1009 04 4**
1015 8 G	8	2000		100	0.430	**1009 05 2**
1015 9 G	9	2000		100	0.470	**1009 06 0**
1015 10 G	10	2000		100	0.560	**1009 07 9**
1015 11 G	11	1800		100	0.630	**1009 08 7**
1015 12 G	12	1000		100	0.670	**1009 10 9**
1015 13 G	13	1800		100	0.680	**1009 11 7**
1015 14 G	14	1200		100	0.710	**1009 16 8**
1015 15 G	15	1200		100	0.740	**1009 18 4**
1015 16 G	16	1200		100	0.750	**1009 19 2**
1015 17 G	17	1200		100	0.760	**1009 20 6**
1015 18 G	18	1200		100	0.840	**1009 21 4**

St Steel G Electrogalvanised /100 pc.

Single-lobe fastening clip for cables and pipes.
Beading from size 20.

Important dimensions, fastening clip

D mm	L mm	H mm	b mm	A mm
5	16	4	12	7
6	16	5	12	7
7	16	6	12	7
8	16	7	12	7
9	16	8	12	7
10	16	9	12	7
11	16	10	14	7
12	16	11	14	7
13	16	12	14	7
14	16	12.5	14	7
15	16	13.5	14	7
16	16	14	14	7
17	16	15	14	7
18	16	16	14	7



Fastening clip, medium-duty 20-28 mm

Type	For Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1015 20 G	20	1200		100	0.920	**1009 23 0**
1015 25 G	25	1000		100	1.150	**1009 42 7**
1015 28 G	28	1000		100	1.250	**1009 36 2**

St Steel G Electrogalvanised /100 pc.

Single-lobe fastening clip for cables and pipes.
Beading from size 20.

Important dimensions, fastening clip

D mm	L mm	H mm	b mm	A mm
20	16	18	14	7
25	16	22.5	14	7
28	16	25	14	7

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Fastening clip, heavy-duty

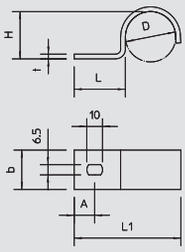
Type	For Ø mm	Size	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
822 6 FT	6	–	1000		100	0.890	**1014 00 5**
822 10 FT	10	–	1200		100	1.080	**1014 01 3**
822 12 FT	12	M12	400		100	1.450	**1014 02 1**
822 14 FT	14	–	400		100	1.600	**1014 04 8**
822 16 FT	15,2	M16	400		100	1.730	**1014 09 9**
822 18 FT	18.6	PG11	400		100	1.950	**1014 11 0**
822 20 FT	20	M20	600		100	2.130	**1014 13 7**
822 22.5 FT	22.5	PG16	500		50	2.340	**1014 16 1**
822 25 FT	25	M25	500		50	2.400	**1014 50 1**
822 28.3 FT	28.3	PG21	200		50	4.420	**1014 21 8**
822 32 FT	32	M32	100		100	5.490	**1014 52 8**
822 37 FT	37	PG29	100		100	7.100	**1014 29 3**
822 40 FT	40	M40	100		100	6.590	**1014 53 6**
822 47 FT	47	PG36	100		100	8.500	**1014 36 6**
822 50 FT	50	M50	100		100	7.690	**1014 54 4**
822 63 FT	63	M63	100		100	9.260	**1014 55 2**

St Steel FT Hot-dip galvanised /100 pc.

Single-lobe fastening clip for cables and pipes.

Important dimensions, fastening clip

D mm	L mm	L1 mm	H mm	b mm	t mm	A mm
6	23.5	32	5	20	2	10
10	23.5	36	9	20	2	10
12	23.5	38.5	11	20	2	10
14	23.5	40.5	13	20	2	10
15.2	23.5	42	14	20	2	10
18.6	23.5	45	17	20	2	10
20	23.5	48	19.5	20	2	10
22.5	23.5	49	21	20	2	11
28.3	27	60	26.5	20	3	11
37	30	70	35	25	3	13
47	30	81	45	25	3	13
32	32.5	68	30	25	3	13
40	32.5	76	38	25	3	13
50	32.5	86	47	25	3	15
63	33.5	100	60	25	3	15
25	25.5	53	23.5	20	2	11



Always indicate the item number when ordering.

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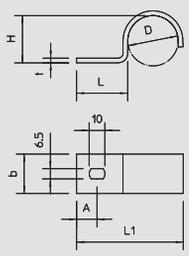


Fastening clip, heavy-duty V4A

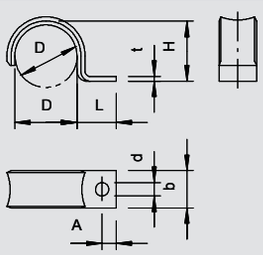
Type	For Ø mm	Size	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
822 6 V4A	6	–	–		1	0.890	**1013 86 1**
822 10 V4A	10	–	–		1	1.080	**1013 86 5**
822 12 V4A	12	M12	–		1	1.450	**1013 86 9**
822 14 V4A	14	–	–		1	1.600	**1013 87 3**
822 16 V4A	15,2	M16	–		1	1.730	**1013 87 7**
822 18 V4A	18.6	PG11	–		1	1.950	**1013 88 1**
822 20 V4A	20	M20	–		1	2.130	**1013 88 5**
822 22.5 V4A	22.5	PG16	–		1	2.340	**1013 88 9**
822 25 V4A	25	M25	–		1	2.400	**1013 89 3**
822 28.3 V4A	28.3	PG21	–		1	4.420	**1013 89 7**
822 32 V4A	32	M32	–		1	5.490	**1013 90 3**
822 37 V4A	37	PG29	–		1	7.100	**1013 90 7**
822 40 V4A	40	M40	–		1	6.590	**1013 91 1**
822 47 V4A	47	PG36	–		1	8.500	**1013 91 7**
822 50 V4A	50	M50	–		1	7.690	**1013 92 1**
822 63 V4A	63	M63	–		1	9.260	**1013 92 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Single-lobe fastening clip for cables and pipes.

Important dimensions, fastening clip

D mm	L mm	L1 mm	H mm	b mm	t mm	A mm
6	23.5	32	5	20	2	10
10	23.5	36	9	20	2	10
12	23.5	38.5	11	20	2	10
14	23.5	40.5	13	20	2	10
15.2	23.5	42	14	20	2	10
18.6	23.5	45	17	20	2	10
20	23.5	48	19.5	20	2	10
22.5	23.5	49	21	20	2	11
25	25.5	53	23.5	20	2	11
28.3	27	60	26.5	20	3	11
32	32.5	68	30	25	3	13
37	30	70	35	25	3	13
40	32.5	76	38	25	3	13
47	30	81	45	25	3	13
50	32.5	86	47	25	3	15
63	33.5	100	60	25	3	15



Fastening clip, plant standard, single lobe

Type	For Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
WN 7855 A 2	2	4000		100	0.040	**1043 01 3**
WN 7855 A 2.5	2.5	4000		100	0.040	**1043 02 1**
WN 7855 A 4	4	4000		100	0.060	**1043 06 4**
WN 7855 A 4.5	4.5	4000		100	0.080	**1043 07 2**
WN 7855 A 5	5	4000		100	0.090	**1043 08 0**
WN 7855 A 6	6	4000		100	0.100	**1043 10 2**
WN 7855 A 7	7	4000		100	0.120	**1043 12 9**
WN 7855 A 8	8	4000		100	0.160	**1043 14 5**
WN 7855 A 9	9	4000		100	0.170	**1043 16 1**
WN 7855 A 10	10	4000		100	0.170	**1043 19 6**
WN 7855 A 12	12	2000		100	0.530	**1043 22 6**
WN 7855 A 14	14	2000		100	0.580	**1043 24 2**

St Steel GTP Electrogalvanised, transparently passivated /100 pc.

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.

Important dimensions, fastening clip

D mm	L mm	H mm	b mm	t mm	d mm	A mm
2	8.5	1.5	6	0.8	3.2	3
2.5	5.25	2	6	0.8	3.2	3
4	7.5	3.5	6	0.8	3.2	3
4.5	8.25	4	6	1	3.2	3
5	8	4.5	6	1	3.2	3
6	7.5	5.5	6	1	3.2	3
7	10	6	8	1	3.2	4
8	9.5	7	8	1	3.2	4
9	9	8	8	1	3.2	4
10	8.5	9	8	1	3.2	4
12	13.5	10	12	1.5	4.3	4.5
14	12.5	12	12	1.5	4.3	4.5

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Fastening clip

Fastening clip, plant standard, double lobe

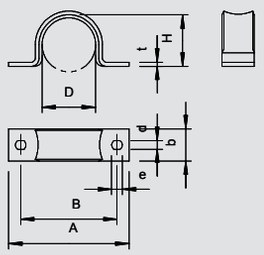
Type	For Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
WN 7855 B 3	3	5000		100	0.080	**1044 04 4**
WN 7855 B 4	4	5000		100	0.080	**1044 06 0**
WN 7855 B 4.5	4.5	5000		100	0.100	**1044 07 9**
WN 7855 B 5	5	5000		100	0.120	**1044 08 7**
WN 7855 B 6	6	5000		100	0.130	**1044 10 9**
WN 7855 B 7	7	4800		100	0.200	**1044 12 5**
WN 7855 B 8	8	4800		100	0.220	**1044 14 1**
WN 7855 B 9	9	2400		100	0.220	**1044 17 6**
WN 7855 B 10	10	2400		100	0.220	**1044 19 2**
WN 7855 B 12	12	1800		100	0.680	**1044 21 4**
WN 7855 B 14	14	1200		100	0.730	**1044 23 0**
WN 7855 B 16	16	1200		100	0.740	**1044 25 7**

St Steel GTP Electrogalvanised, transparently passivated /100 pc.

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.

Important dimensions, fastening clip

D mm	A mm	B mm	H mm	b mm	t mm	d mm	e mm
3	21	14	2.5	6	0.8	3.2	4
4	21	14	3.5	6	1	3.2	4
4.5	24	16	4	6	1	3.2	4
5	24	16	4.5	6	1	3.2	4
6	24	16	5.5	6	1	3.2	4
7	28	20	6	8	1	3.2	4
8	28	20	7	8	1	3.2	4
9	28	20	8	8	1	3.2	4
10	28	20	9	8	1	3.2	4
12	39	30	10	12	1.5	4.3	5
14	39	30	12	12	1.5	4.3	5
16	39	30	14	12	1.5	4.3	5



Heavy-duty cable clip

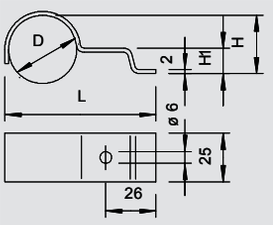
Type	For cable Ø mm	Hole size mm	Material thickness mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1594 22 G	22	6	2	Stone grey	200		100	3.300	**1310 92 5**

St Steel G Electrogalvanised /100 pc.

For earthing cable fastening to house connection boxes.
Levanisit coated.

Important dimensions, cable clip

D mm	L mm	H mm	H1 mm
22	65	18	11



Fastening clip, medium-duty

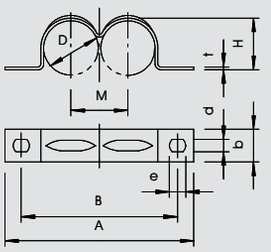
Type	For Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
604 2X16	2 x 16	1000		100	0.740	**1004 16 6**
604 2X19	2 x 19	1000		100	0.850	**1004 19 0**
604 2X21	2 x 21	1000		100	0.940	**1004 21 2**
604 2X28	2 x 28	600		50	1.460	**1004 29 8**

St Steel G Electrogalvanised /100 pc.

Two lobe fastening clips for cables and pipes.

Important dimensions, fastening clip

D mm	A mm	B mm	M mm	b mm	t mm	d mm	H mm	e mm
16	60.5	48.5	16.5	12	1	4.5	14.5	6
19	66	54	19.5	12	1	4.5	17	6
21	69.5	57.5	22	12	1	4.5	18.3	6
28	91	79	29	14	1	4.5	26	6



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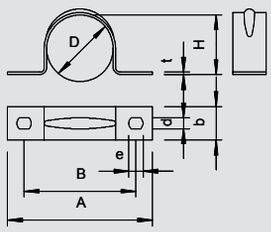
Always indicate the item number when ordering.



Fastening clip, medium-duty

Type	For Ø mm	Hole size mm	Material thickness mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
605 7 G	7	4,5 x 6	1	4800		100	0.180	**1018 07 8**
605 8 G	8	4,5 x 6	1	5000		100	0.200	**1018 08 6**
605 9 G	9	4,5 x 6	1	5000		100	0.250	**1018 09 4**
605 10 G	10	4,5 x 6	1	1800		100	0.430	**1018 10 8**
605 11 G	11	4,5 x 6	1	1800		100	0.460	**1018 11 6**
605 12 G	12	4,5 x 6	1	2000		100	0.490	**1018 12 4**
605 13 G	13	4,5 x 6	1	2400		100	0.530	**1018 13 2**
605 14 G	14	4,5 x 6	1	2400		100	0.560	**1018 14 0**
605 15 G	15	4,5 x 6	1	2000		100	0.580	**1018 15 9**
605 16 G	16	4,5 x 6	1	1200		100	0.590	**1018 16 7**
605 17 G	17	4,5 x 6	1	1500		100	0.600	**1018 17 5**
605 18 G	18	4,5 x 6	1	1200		100	0.640	**1018 18 3**
605 19 G	19	4,5 x 6	1	1200		100	0.670	**1018 19 1**
605 20 G	20	4,5 x 6	1	1000		100	0.660	**1018 20 5**
605 21 G	21	4,5 x 6	1	1000		100	0.680	**1018 21 3**
605 23 G	23	4,5 x 6	1	1000		100	0.830	**1018 22 1**
605 25 G	25	4,5 x 6	1	1200		100	0.960	**1018 25 6**
605 26 G	26	4,5 x 6	1	1000		100	0.980	**1018 26 4**
605 28 G	28	4,5 x 6	1	1200		100	1.070	**1018 28 0**
605 30 G	30	4,5 x 6	1	1200		100	1.150	**1018 30 2**
605 32 G	32	4,5 x 6	1	1200		100	1.260	**1018 33 7**
605 35 G	35	5,5 x 7	1	1200		100	1.920	**1018 35 3**
605 37 G	37	5,5 x 7	1	1200		100	2.010	**1018 36 1**
605 40 G	40	5,5 x 7	1.5	600		50	1.900	**1018 39 6**
605 43 G	43	5,5 x 7	1.5	600		50	2.320	**1018 43 4**
605 47 G	47	5,5 x 7	1.5	600		50	2.370	**1018 47 7**
605 50 G	50	5,5 x 7	1.5	300		25	2.770	**1018 50 7**
605 55 G	55	5,5 x 7	1.5	300		25	3.840	**1018 55 8**
605 60 G	60	5,5 x 7	1.5	300		25	3.800	**1018 60 4**
605 63 G	63	5,5 x 7	1.5	300		25	3.670	**1018 63 9**

St Steel G Electrogalvanised /100 pc.

Two lobe fastening clips for cables and pipes.
* Sizes 7 to 12 not suitable for bolt-firing tool.

Important dimensions, fastening clip

D mm	A mm	B mm	H mm	b mm	t mm	d mm	e mm
7	32	21	6	10	1	4.5	6
8	33	22	7	10	1	4.5	6
9	34	23	8	10	1	4.5	6
10	37	25	9	12	1	4.5	6
11	38	26	10	12	1	4.5	6
12	39	27	11	12	1	4.5	6
13	41	29	12	12	1	4.5	6
14	42	30	13	12	1	4.5	6
15	43	31	13.5	12	1	4.5	6
16	44	32	14.5	12	1	4.5	6
17	45	33	15.5	12	1	4.5	6
18	46	34	16.5	12	1	4.5	5
19	47	35	17.5	12	1	4.5	6
20	49	37	18.5	12	1	4.5	6
21	50	38	19.5	12	1	4.5	6
23	52	40	21	12	1	4.5	6
25	58	44	23	14	1	4.5	6
26	59	45	24	14	1	4.5	6
28	61	47	26	14	1	4.5	6
30	63	49	28	14	1	4.5	6
33	66	52	30	14	1	4.5	6
35	70	56	32	14	1.5	5.5	7
37	72	58	34	14	1.5	5.5	7
40	75	61	37	14	1.5	5.5	7
43	78	64	40	14	1.5	5.5	7
47	82	68	44	14	1.5	5.5	7
55	94	78	51	16	1.5	5.5	7
60	99	83	56	16	1.5	5.5	7
50	88	74	46	16	1.5	5.5	7
63	112	98	59	16	1.5	5.5	7

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Fastening clip

Fastening clip, medium-duty

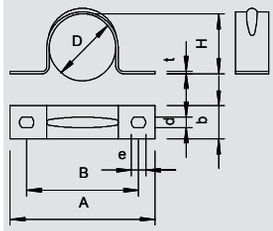
Type	For Ø mm	Hole size mm	Material thickness mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
605 16 ALU	16	4,5 x 6	1	2000		100	0.220	**1017 79 9**
605 20 ALU	20	4,5 x 6	1	1200		100	0.230	**1017 83 7**
605 25 ALU	25	4,5 x 6	1	1000		100	0.330	**1017 86 1**
605 32 ALU	32	4,5 x 6	1	1200		100	0.430	**1017 92 6**
605 40 ALU	40	5,5 x 7	1	600		50	0.650	**1017 95 0**
605 50 ALU	50	5,5 x 7	1.5	300		25	0.950	**1017 98 0**
605 63 ALU	63	5,5 x 7	1.5	300		25	1.260	**1017 99 7**

Al Aluminium /100 pc.

Two lobe fastening clips for cables and pipes.

Important dimensions, fastening clip

D mm	A mm	B mm	H mm	b mm	t mm	d mm	e mm
16	44	32	14.5	12	1	4.5	6
20	49	37	18.5	12	1	4.5	6
25	58	44	23	14	1	4.5	6
32	95	71	29	25	1	4.5	6
40	75	61	37	14	1.5	5.5	7
50	110	86	46	25	1.5	5.5	7
63	120	96	59	25	1.5	5.5	7



Fastening clip, medium-duty V4A

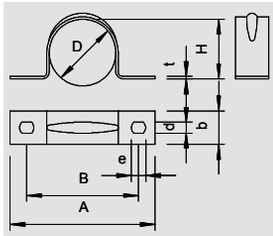
Type	For Ø mm	Hole size mm	Material thickness mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
605 12 V4A	12	4,5 x 6	1	–		1	0.490	**1018 65 3**
605 16 V4A	16	4,5 x 6	1	–		1	0.590	**1018 66 1**
605 20 V4A	20	4,5 x 6	1	–		1	0.660	**1018 66 9**
605 25 V4A	25	4,5 x 6	1	–		1	0.990	**1018 67 9**
605 32 V4A	32	4,5 x 6	1	–		1	1.260	**1018 69 3**
605 40 V4A	40	5,5 x 7	1.5	–		1	1.900	**1018 70 5**
605 50 V4A	50	5,5 x 7	1.5	–		1	2.770	**1018 71 7**
605 63 V4A	63	5,5 x 7	1.5	–		1	3.670	**1018 72 9**

V4A Stainless steel, grade 316 Ti /100 pc.

Two lobe fastening clips for cables and pipes.

Important dimensions, fastening clip

D mm	A mm	B mm	H mm	b mm	t mm	d mm	e mm
12	39	27	11	12	1	4.5	6
16	44	32	14.5	12	1	4.5	6
20	49	37	18.5	12	1	4.5	6
25	58	44	23	14	1	4.5	6
32	66	52	30	14	1	4.5	6
40	75	61	37	14	1.5	5.5	7
50	88	74	46	16	1.5	5.5	7
63	112	98	59	16	1.5	5.5	7



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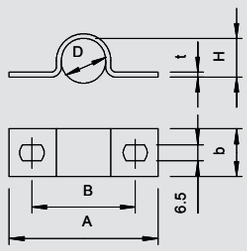


Fastening clip, heavy-duty

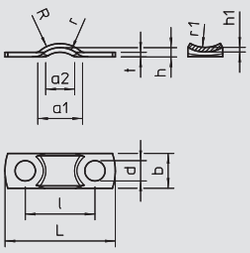
Type	For Ø mm	Hole size mm	Material thickness mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
823 16 FT	16	6,5 x 10	2	500		50	2.260	**1015 09 5**
823 18.3 FT	18.6	6,5 x 10	2	500		50	2.450	**1015 11 7**
823 20 FT	20	6,5 x 10	2	500		50	2.660	**1015 13 3**
823 22.5 FT	22.5	6,5 x 10	2	400		50	2.990	**1015 16 8**
823 25 FT	25	6,5 x 10	3	250		25	6.770	**1015 49 4**
823 28.3 FT	28.3	6,5 x 10	3	250		25	5.210	**1015 21 4**
823 32 FT	32	6,5 x 10	3	100		100	7.470	**1015 49 6**
823 37 FT	37	6,5 x 10	3	100		100	8.700	**1015 30 3**
823 40 FT	40	6,5 x 10	3	100		100	8.460	**1015 49 8**
823 47 FT	47	6,5 x 10	3	100		100	10.120	**1015 36 2**
823 54 FT	54	6,5 x 10	3	100		100	10.760	**1015 42 7**
823 59.3 FT	59.3	6,5 x 10	3	100		100	11.800	**1015 48 6**
823 50 FT	50	6,5 x 10	3	100		100	9.810	**1015 50 0**
823 63 FT	63	6,5 x 10	3	100		100	11.550	**1015 50 8**

St Steel FT Hot-dip galvanised /100 pc.

Two lobe fastening clips for cables and pipes.

Important dimensions, fastening clip

D mm	A mm	B mm	H mm	b mm	t mm	e mm
15.2	59	40	13	20	2	10
18.6	62	43	16	20	2	10
20.4	64	45	18	20	2	10
22.5	67	48	20	20	2	10
25	79	60	23.5	25	3	10
28.3	75	56	25.5	20	3	10
32	95	71	29	25	3	10
37	93	69	34	25	3	10
47	103	79	43	25	3	10
54	110	86	50	25	3	10
59.3	116	92	55	25	3	10
40	100	76	36	25	3	10
63	120	96	59	25	3	10
50	110	86	46	25	3	10



Strain relief clip

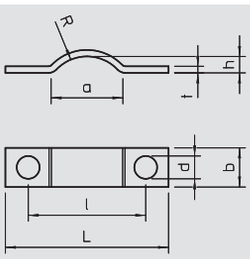
Type	For cable Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
7901 5 G	5	4000		100	0.060	**1435 01 9**
7901 6.5 G	6.5	4000		100	0.120	**1435 02 7**

St Steel G Electrogalvanised /100 pc.

Fastening clip for strain relief of cables.

Important dimensions, strain relief clip

R mm	h mm	L mm	l mm	b mm	t mm	d mm	a1 mm	a2 mm	r mm	r1 mm	h1 mm
5	1.6	19	12	6	0.8	3.5	6.5	4	4	5	0.8
6.5	1.6	23	16	7	1	3.2	8	4	8	5	1.2



Strain relief clip

Type	For cable Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
7902 6 G	6.5	4000		100	0.100	**1436 01 5**
7902 8 G	8	5000		100	0.160	**1436 02 3**

St Steel G Electrogalvanised /100 pc.

Fastening clip for strain relief of cables.

Important dimensions, strain relief clip

R mm	h mm	L mm	l mm	b mm	t mm	d mm	a mm
6.5	2.5	25	18	6	1	3.5	11
8	4.5	30	23	8	1	4	12

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Fastening clip

Strain relief clip

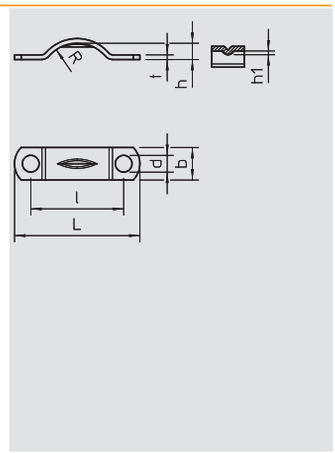
Type	For cable Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
7903 6 G	6	4000		100	0.110	**1437 00 3**
7903 8 G	8	4000		100	0.130	**1437 01 1**
7903 9 G	9	4000		100	0.270	**1437 03 8**

St Steel G Electrogalvanised /100 pc.

Fastening clip for strain relief of cables.

Important dimensions, strain relief clip

R mm	h mm	L mm	l mm	b mm	t mm	d mm	h1 mm	h1 mm
6	1.5	23	16.5	6	1	2.5	0.5	
8	3.5	27	20	7	1	3.6	0.8	
9	4	31	23	8	1.5	4.5	1	



Strain relief clip

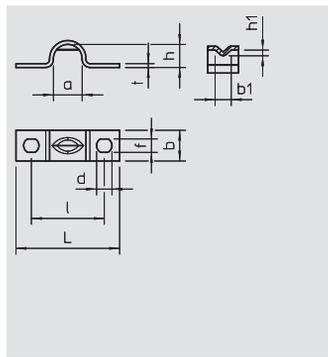
Type	For cable Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
7904 6 G	6	4800		100	0.190	**1438 01 8**

St Steel G Electrogalvanised /100 pc.

Fastening clip for strain relief of cables.

Important dimensions, strain relief clip

h mm	a mm	L mm	l mm	d mm	f mm	b mm	t mm	h1 mm
6	7.5	27.5	19	4	3.5	8	1	1.5



Strain relief clip

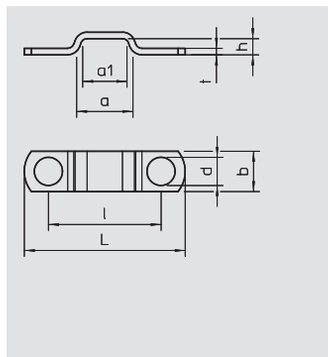
Type	For cable Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
7905 5 G	5	3600		100	0.050	**1439 01 4**

St Steel G Electrogalvanised /100 pc.

Fastening clip for strain relief of cables.

Important dimensions, strain relief clip

h mm	a mm	a1 mm	L mm	l mm	b mm	t mm	d mm
2	7	5.5	20	14	5	0.8	3.5

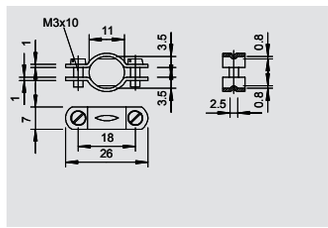


Strain relief clip

Type	For cable Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
7908 11 G	11	2400		100	0.430	**1442 01 5**

St Steel G Electrogalvanised /100 pc.

Fastening clip for strain relief of cables.

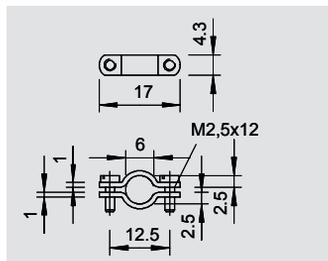


Strain relief clip

Type	For cable Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
7909 6 G	6	4000		100	0.200	**1443 01 1**

St Steel G Electrogalvanised /100 pc.

Fastening clip for strain relief of cables.



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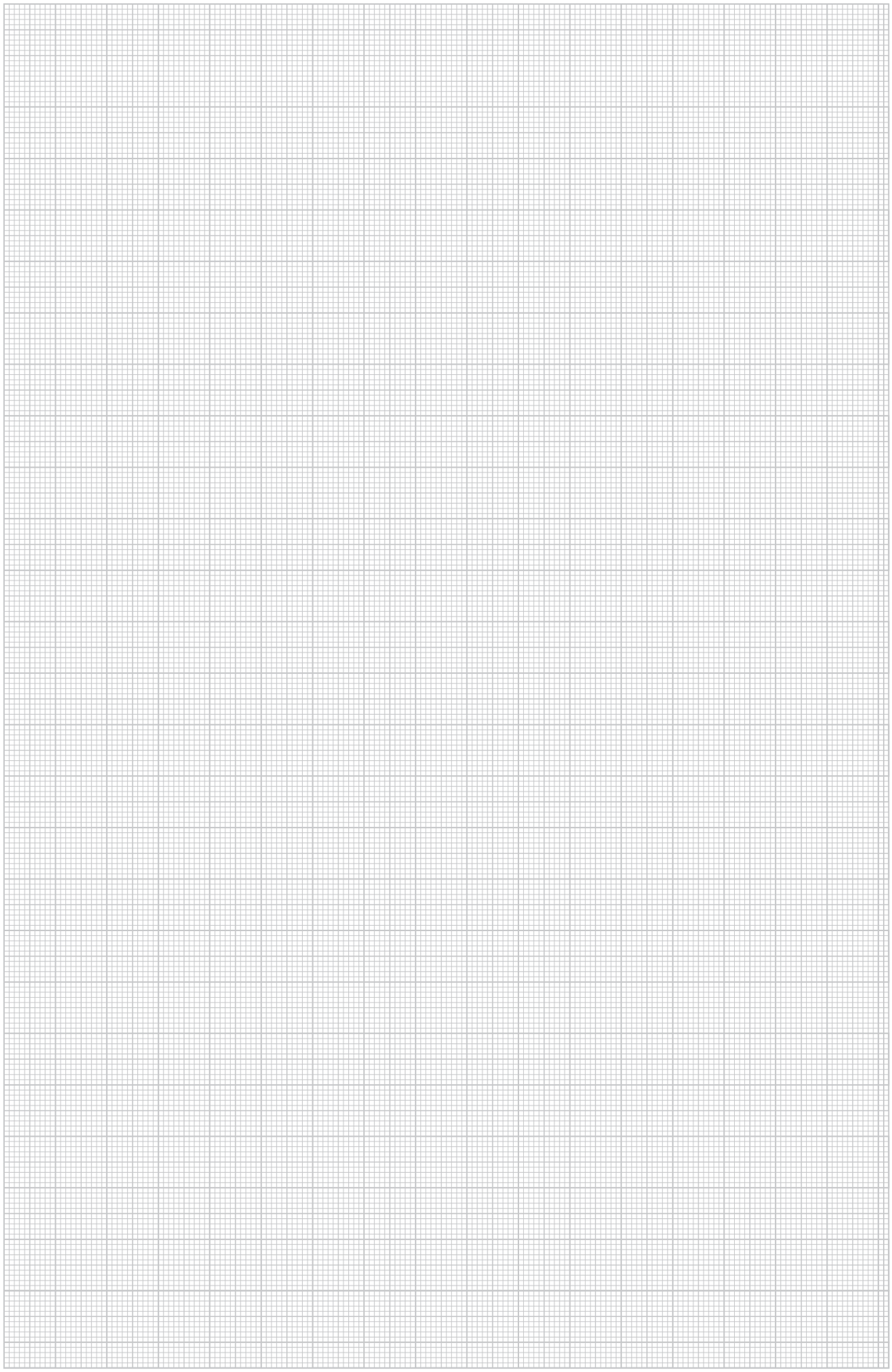

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Special cable/pipe fastening systems

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	Sticking and releasing	Impu-Fix ribbon conductor quick adhesive	316
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	Installation strip	Metal Plastic covered	321 322

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Cable ties

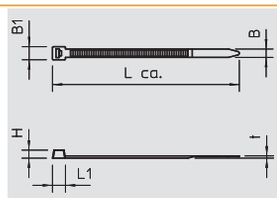
Type	Dimension mm	Max. bundle Ø mm	Minimum breaking load kN	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
555 2.4x75 WS	2.4 x 75	15	0.08	White	1000		100	0.050	**2332 02 7**
555 2.5x100 WS	2.5 x 100	18	0.08	White	1000		100	0.070	**2332 05 1**
555 2.5x165 WS	2.5 x 165	40	0.08	White	1000		100	0.080	**2332 09 4**
555 2.5x200 WS	2.5 x 200	50	0.08	White	1000		100	0.100	**2332 10 8**
555 3.6x150 WS	3.6 x 140	35	0.18	White	1000		100	0.130	**2332 17 5**
555 3.6x200 WS	3.6 x 200	50	0.18	White	1000		100	0.150	**2332 18 3**
555 3.6x290 WS	3.6 x 290	76	0.18	White	1000		100	0.180	**2332 21 3**
555 4.8x200 WS	4.8 x 200	47	0.22	White	1000		100	0.200	**2332 33 7**
555 4.8x310 WS	4.8 x 300	76	0.22	White	1000		100	0.250	**2332 36 1**
555 4.8x370 WS	4.8 x 370	102	0.22	White	1000		100	0.300	**2332 38 8**
555 7.6x200 WS	7.6 x 200	50	0.55	White	1000		100	0.350	**2332 50 7**
555 7.6x300 WS	7.6 x 300	76	0.55	White	1000		100	0.450	**2332 55 8**
555 7.6x380 WS	7.6 x 380	102	0.55	White	1000		100	0.500	**2332 57 4**
555 2.5x100 SW	2.5 x 100	18	0.08	Black	1000		100	0.070	**2332 62 0**
555 3.6x150 SW	3.6 x 140	35	0.18	Black	1000		100	0.130	**2332 65 5**
555 3.6x200 SW	3.6 x 200	50	0.18	Black	1000		100	0.150	**2332 66 3**
555 4.8x200 SW	4.8 x 200	47	0.22	Black	1000		100	0.200	**2332 69 8**
555 4.8x310 SW	4.8 x 300	76	0.22	Black	1000		100	0.250	**2332 70 1**
555 4.8x370 SW	4.8 x 370	102	0.22	Black	1000		100	0.300	**2332 72 8**
555 7.6x380 SW	7.6 x 380	102	0.55	Black	1000		100	0.500	**2332 75 2**

PA Polyamide /100 pc.

For quick fixing.

Important dimensions, cable tie

G mm	L mm	B mm	B1 mm	t mm	H mm	L1 mm
2.4 x 75	78	2.4	4.4	1	2.9	4.4
2.5 x 100	102	2.5	4.5	1.1	3.3	4.4
2.5 x 165	166	2.5	4.5	1.1	3.7	4.4
2.5 x 200	202	2.5	4.5	1.1	3.7	4.4
3.6 x 140	142	3.6	6	1.2	3.8	6.5
3.6 x 200	201	3.6	6.2	1.2	4.4	5.8
3.6 x 290	294	3.6	6	1.2	4.5	6
4.8 x 200	200	4.8	7.5	1.3	4.6	7.2
4.8 x 300	300	4.8	8.5	1.6	5.7	7.7
4.8 x 370	366	4.8	8.5	1.6	5.7	7.7
7.6 x 200	200	7.6	11.6	1.8	7.2	11
7.6 x 300	300	7.6	11.8	1.8	6.9	11
7.6 x 380	376	7.6	12	1.8	6.4	11



Cable tie, UV and weather-resistant

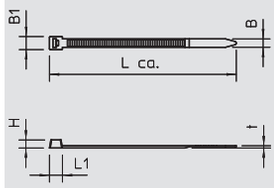
Type	Dimension mm	Max. bundle Ø mm	Minimum breaking load kN	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
555 2.5x100 SWUV	2.5 x 100	18	0.08	Black	1000		100	0.040	**2332 76 0**
555 3.6x150 SWUV	3.6 x 140	35	0.18	Black	1000		100	0.070	**2332 76 4**
555 3.6x200 SWUV	3.6 x 200	50	0.18	Black	1000		100	0.110	**2332 76 8**
555 4.8x200 SWUV	4.8 x 200	47	0.22	Black	1000		100	0.150	**2332 77 2**
555 4.8x310 SWUV	4.8 x 300	76	0.22	Black	1000		100	0.240	**2332 77 6**
555 4.8x370 SWUV	4.8 x 370	102	0.22	Black	1000		100	0.610	**2332 78 0**
555 7.6x380 SWUV	7.6 x 380	102	0.55	Black	1000		100	0.610	**2332 78 4**

PA Polyamide /100 pc.

For quick fixing.

Important dimensions, cable tie

G mm	L mm	B mm	B1 mm	t mm	H mm	L1 mm
2.5 x 100	102	2.5	4.5	1.1	3.3	4.4
3.6 x 140	142	3.6	6	1.2	3.8	6.5
3.6 x 200	201	3.6	6.2	1.2	4.4	5.8
4.8 x 200	200	4.8	7.5	1.3	4.6	7.2
4.8 x 310	310	4.8	8.5	1.6	5.7	7.7
4.8 x 370	366	4.8	8.5	1.6	5.7	7.7
7.6 x 380	376	7.6	12	1.8	6.4	11



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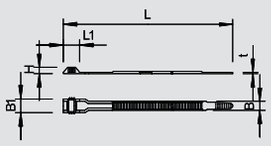
Always indicate the item number when ordering.



Ribbon clip, 6 mm-wide

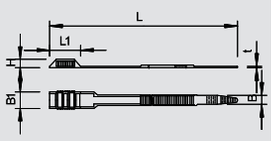
Type	Dimension mm	Max. bundle Ø mm	Minimum breaking load kN	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
550 6X180 SW	6 x 180	45	0.25	Black	1500		100	0.180	**2330 05 9**
550 6X290 SW	6 x 290	78	0.25	Black	1200		100	0.300	**2330 07 5**
550 6X360 SW	6 x 360	100	0.25	Black	2200		100	0.380	**2330 09 1**
550 9X180 SW	9 x 180	40	0.35	Black	1000		100	0.270	**2330 22 9**

PA Polyamide /100 pc.

Design E, single lock, UV and weather-resistant.

Important dimensions, ribbon clip

W x L mm	L mm	B mm	B1 mm	t mm	H mm	L1 mm
6 x 180	180	6	10	1.2	5	20
6 x 290	290	6	10	1.7	5	20
6 x 360	360	6	10	1.7	5	20
9 x 180	180	9	14	1.4	6	24



Ribbon clip, 9 mm-wide

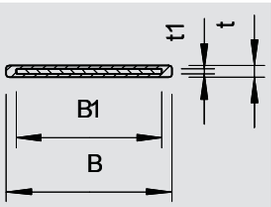
Type	Dimension mm	Max. bundle Ø mm	Minimum breaking load kN	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
550 9X265 SW	9 x 260	65	0.51	Black	2200		100	0.420	**2330 24 5**
550 9X360 SW	9 x 360	93	0.51	Black	2200		100	0.560	**2330 29 6**
550 9X510 SW	9 x 510	140	0.55	Black	100		100	0.930	**2330 32 6**
550 9X760 SW	9 x 760	220	0.55	Black	100		100	1.350	**2330 34 2**

PA Polyamide /100 pc.

Design D, double lock, UV and weather-resistant.

Important dimensions, ribbon clip

W x L mm	L mm	B mm	B1 mm	t mm	H mm	L1 mm
9 x 260	260	9	15	1.4	7	39
9 x 360	360	9	15	1.4	7	39
9 x 510	510	9	15	2	7.2	39
9 x 760	760	9	15	2	7.2	40



Tightening strap

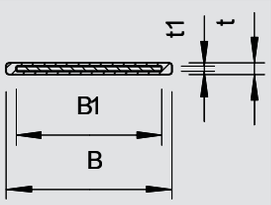
Type	Dimension mm	Minimum breaking load kN	Colour	Shipping box m		Pack. m	Weight kg/100 m	Item No.
574 G STGR	17 x 1.0	1.35	Stone grey	250		25	5.880	**6490 01 8**

St Steel G Electrogalvanised /100 m

Galvanised tightening strap and with plastic covering for fastening on cable trays and ladders.

Important dimensions, tightening strap

B mm	t mm	B1 mm	t1 mm
17	1	15.5	0.3



Tightening strap V2A

Type	Dimension mm	Minimum breaking load kN	Colour	Shipping box m		Pack. m	Weight kg/100 m	Item No.
574 03 BA	17 x 1.0	2.25	Blue anthracite	250		25	6.950	**6490 03 4**
574 05 GNBG	16.5 x 1.2	3.5	Green-beige	250		25	6.950	**6490 05 0**

V2A Stainless steel, grade 301 /100 m

Tightening strap made of rustproof steel and with plastic covering for fastening on cable trays and ladders.

Important dimensions, tightening strap

B mm	t mm	B1 mm	t1 mm
17	1	15.5	0.3
16.5	1.2	14.5	0.5

Always indicate the item number when ordering.

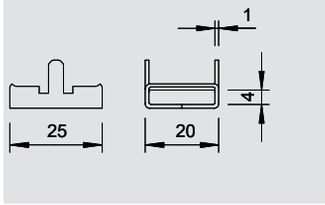
Fastening strip

Tightening strap lock

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
192	1200		100	0.900	**6490 90 5**

St Steel DD Zinc-aluminium coated, double-dip /100 pc.

Tightening strap lock for mounting under the ceiling.

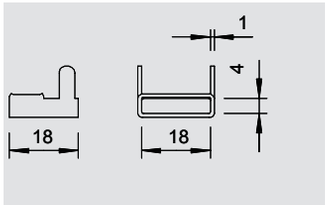


Tightening strap lock V2A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
197 VA4301	1800		100	0.560	**6490 96 4**

V2A Stainless steel, grade 304 /100 pc.

Tightening strap lock for single-sided locking of tightening strap in problematic areas.

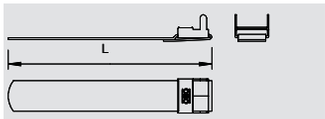


Tightening strap in fixed lengths

Type	Dimension mm	Length mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
574 03 30 BA	17 x 1.0	300	Blue anthracite	500		25	2.410	**6490 10 7**
574 03 45 BA	17 x 1.0	450	Blue anthracite	250		25	3.260	**6490 12 3**
574 05 55 GNBG	16.5 x 1.2	550	Green-beige	250		25	4.660	**6490 15 8**
574 05 65 GNBG	16.5 x 1.2	650	Green-beige	250		25	5.370	**6490 17 4**

V2A Stainless steel, grade 301 /100 pc.

Tightening strap, 574/03/VA and 574/05/VA, completely preterminated with tightening strap lock.

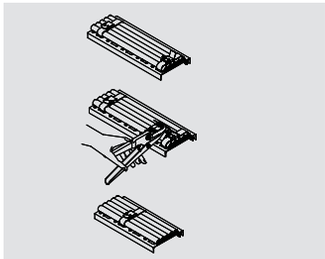


Spring chuck

Type		Pack. pcs	Weight kg/100 pcs.	Item No.
575		1	29.700	**6498 01 9**

St Steel /pc.

For tightening strap 574/...
Mounting of the tightening strap:
1. Cut the strap to the right length, push it through the lock and turn it over.
2. Loop the strap around the cable, push the loose end through the lock.
3. Tighten the end of the strap with the pliers.
4. Turn the end of the taut strap with the pliers. Remove the pliers.
5. Completely turnover the turned end of the strap with the hammer, secure the end of the strap by hitting the two standing lobes of the lock.

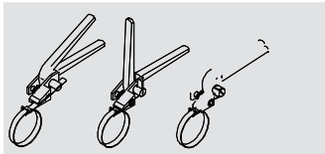


Spring chuck

Type		Pack. pcs	Weight kg/100 pcs.	Item No.
576		1	132.000	**6498 02 7**

St Steel /pc.

For tightening strap 574/...



Always indicate the item number when ordering.

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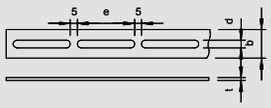


Slotted steel strap, rods

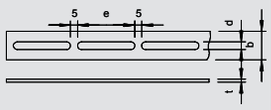
Type	Dimension mm	Per bundle m		Weight kg/100 m	Item No.
5050 20X3 3M FT	20 x 3	60		36.800	**1465 76 7**
5050 25X3 3MFT	25 x 3	60		48.900	**1465 77 5**
5050 30X3 3M FT	30 x 3	60		64.000	**1465 79 1**
5050 SB30x3 FT	30 x 3	60		54.000	**1466 26 7**
5050 30X4 3M FT	30 x 4	30		71.600	**1465 80 5**
5050 40X4 3M FT	40 x 4	30		103.800	**1465 82 1**

St Steel FT Hot-dip galvanised /100 m

Perforated slotted steel strap in strips.
Length: 3,000 mm.

Important dimensions, slotted steel strap

w x d mm	d mm	e mm
20 x 3	6.5	40
25 x 3	6.5	40
30 x 3	6.5	40
30 x 3	8.5	40
30 x 4	8.5	60
40 x 4	8.5	70



Slotted steel strap, rings

Type	Dimension mm	Normal ring ca. m		Weight kg/100 m	Item No.
5050 25X3 FT	25 x 3	120		48.900	**1465 10 4**
5050 30X3 FT	30 x 3	120		64.000	**1465 14 7**
5050 30X4 FT	30 x 4	100		71.600	**1465 16 3**
5050 40X4 FT	40 x 4	80		103.000	**1465 19 8**
5050 20x1.5 BK	20 x 1.5	200		18.200	**1465 60 0**

St Steel Bright FT Hot-dip galvanised /100 m

In rings.

Important dimensions, slotted steel strap

w x d mm	d mm	e mm
25 x 3	6.5	40
30 x 3	6.5	40
30 x 4	8.5	60
40 x 4	8.5	70

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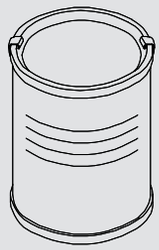
Solvent mixture

Type	Contents		Pack.	Weight	Item No.
	ml		pcs	kg/100 pcs.	
508	1000		1	105.000	**2341 10 7**

/pc.

Thinning.
Solvent mixture to create an optimum processing consistency of Impu-Fix ribbon conductor quick adhesive and to clean the working material.

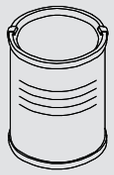


Impu-Fix ribbon conductor quick adhesive

Type	Contents		Pack.	Weight	Item No.
	kg		pcs	kg/100 pcs.	
509	0.65		1	70.000	**2341 01 8**

/pc.

Impu-Fix ribbon conductor bonding agent to stick clips and ribbon conductors to masonry and concrete.

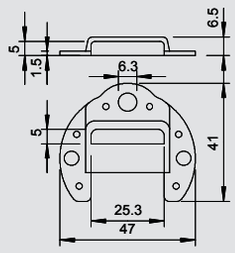


Ceiling outlet

Type	Colour		Pack.	Weight	Item No.
			pcs	kg/100 pcs.	
510	Light grey		100	0.290	**2236 02 8**

PS Polystyrene /100 pc.

To fasten ribbon conductors.



Always indicate the item number when ordering.

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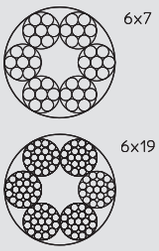


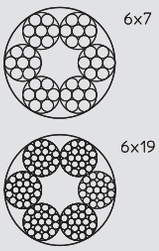
Steel wire tensioning rope

Type	Cable diameter mm	Breaking load kN	In rings m		Weight kg/100 m	Item No.
957 2 G	2	2.35	50		1.430	**5303 20 2**
957 3 G	3	5.29	50		3.220	**5303 20 6**
957 4 G	4	9.41	50		5.720	**5303 21 4**
957 5 G	5	14.7	50		8.940	**5303 22 2**
957 6 G	6	21.1	50		12.900	**5303 23 0**
957 8 G	8	34.8	50		22.900	**5303 25 7**
957 10 G	10	54.4	50		35.700	**5303 26 5**

St Steel G Electrogalvanised /100 m

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.

Application for interior areas!



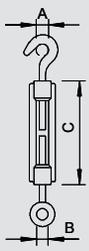
Steel wire tensioning rope V4A

Type	Cable diameter mm	Breaking load kN	In rings m		Weight kg/100 m	Item No.
957 2 V4A	2	2.35	50		1.430	**5303 17 9**
957 3 V4A	3	5.29	50		3.220	**5303 18 2**
957 4 V4A	4	9.41	50		5.720	**5303 18 5**
957 5 V4A	5	14.7	50		8.940	**5303 18 8**
957 6 V4A	6	21.1	50		12.900	**5303 19 1**
957 8 V4A	8	34.8	50		22.900	**5303 19 4**
957 10 V4A	10	54.4	50		35.700	**5303 19 7**

V4A Stainless steel, grade 316 /100 m

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.

Application for exterior areas!



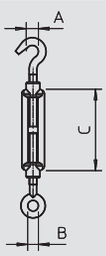
Tension jack

Type	Dimension A mm	Dimension B mm	Dimension C mm	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
945 M6 G	9	8.5	110	M6	2.25	5	13.050	**5300 03 7**
945 M10 G	14	13.5	125	M10	7	5	33.650	**5300 05 3**
945 M12 G	16	15.5	125	M12	7.5	5	53.000	**5300 06 1**
945 M16 G	22	19	170	M16	12	5	84.000	**5300 08 8**

St Steel G Electrogalvanised /100 pc.

With hook and eye, to DIN 1480.

Application for interior areas!



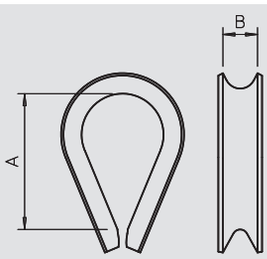
Tension jack V4A

Type	Dimension A mm	Dimension B mm	Dimension C mm	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
945 M6 V4A	9	8.5	110	M6	2.25	5	10.500	**5300 12 0**
945 M10 V4A	14	13.5	125	M10	7	5	28.000	**5300 12 4**
945 M12 V4A	16	15.5	125	M12	7.5	5	42.000	**5300 12 7**
945 M16 V4A	22	19	170	M16	12	5	100.000	**5300 13 2**

V4A Stainless steel, grade 316 /100 pc.

With hook and eye, to DIN 1480.

Application for exterior areas!



Cable eye stiffener

Type	For rope-Ø mm	Dimension A mm	Dimension B mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
946 3 G	3	21.5	4	1250		25	0.350	**5301 03 3**
946 4 G	4	26.5	5.5	750		25	0.410	**5301 04 1**
946 5 G	5	28.5	6.5	600		25	0.500	**5301 00 9**
946 6 G	6	30	8	500		25	0.760	**5301 06 8**
946 8 G	8	35	10	360		10	1.230	**5301 08 4**
946 10 FT	10	43	12.5	200		10	2.320	**5301 10 6**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Cable eye stiffener according to DIN 65457.
Application for interior areas!

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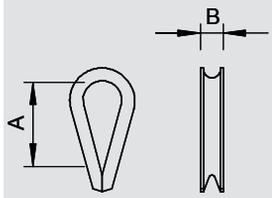
Cable eye stiffener V4A

Type	For rope-Ø mm	Dimension A mm	Dimension B mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
946 3 V4A	3	21.5	4	1250		25	0.210	**5301 17 0**
946 4 V4A	4	26.5	5.5	750		25	0.390	**5301 17 2**
946 5 V4A	5	28.5	6.5	600		25	0.620	**5301 17 4**
946 6 V4A	6	30	8	500		25	0.840	**5301 17 6**
946 8 V4A	8	35	10	360		10	1.880	**5301 18 0**
946 10 V4A	10	43	12.5	200		10	3.560	**5301 18 4**

V4A Stainless steel, grade 316 /100 pc.

Cable eye stiffener according to DIN 65457. ## Application for exterior areas! ##



Tensioning wire clip

Type	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1020 11-16 G	M4 x 13	1200		100	1.420	**1404 16 4**
1020 14-18 G	M4 x 13	1000		100	1.650	**1404 18 0**
1020 18-28 G	M4 x 13	600		100	2.000	**1404 28 8**

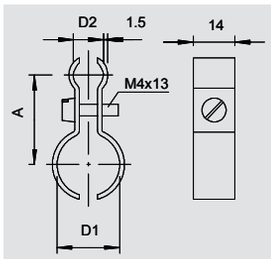
St Steel G Electrogalvanised /100 pc.

To fasten cables to tensioning cables.

Application for interior areas!

Important dimensions, tensioning wire clip

D1 mm	D2 mm	A mm
11–16	4–9	22
14–18	4–9	26
19–28	4–9	34



Tensioning wire clip V4A

Type	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1020 11-16 V4A	M4 x 13	100		100	1.420	**1404 16 8**
1020 14-18 V4A	M4 x 13	100		100	1.650	**1404 18 4**
1020 18-28 V4A	M4 x 13	100		100	2.000	**1404 29 2**

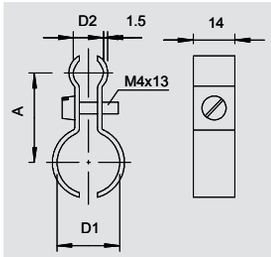
V4A Stainless steel, grade 316 Ti /100 pc.

To fasten cables to tensioning cables.

Application for exterior areas!

Important dimensions, tensioning wire clip

D1 mm	D2 mm	A mm
11–16	4–9	22
14–18	4–9	26
19–28	4–9	34



Tensioning wire clip, polystyrene

Type	Clamping range D mm	For rope-Ø mm	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
4024 9-16	9-16	3-8	M4 x 13	1200		100	0.550	**2305 15 1**
4024 16-23	16-23	5-10	M5 x 20	500		50	0.930	**2305 23 2**

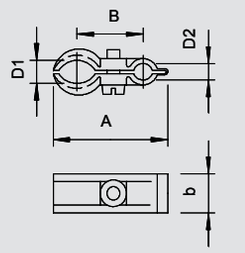
PS Polystyrene /100 pc.

Bolt, steel, electrogalvanised, light grey.

Application for interior areas!

Important dimensions, tensioning wire clip

D1 mm	D2 mm	A mm	B mm	b mm	M
9–16	3– 8	41	24	14	M4 x 13
16–23	5–10	55	31.5	15	M5 x 20



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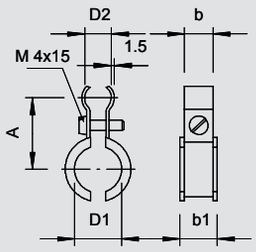


Fix ISO tensioning wire clip

Type	Clamping range D mm	For rope-Ø mm	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
4021 K 6-13	6-13	4-9	M4 x 15	1000		100	1.300	**2307 61 8**
4021 K 9-16	9-16	4-9	M4 x 15	1200		100	1.460	**2307 63 4**

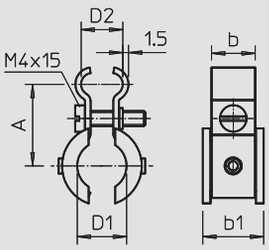
St Steel FS Strip-galvanised /100 pc.

Metal clip with plastic insert, steel, electrogalvanised, polyethylene inserts

Application for interior areas!

Important dimensions, tensioning wire clip

D1 mm	D2 mm	A mm	b mm	b1 mm
6–13	4–9	21.5	11.5	16
9–16	4–9	26	14	18.3



Fix ISO tensioning wire clip V4A

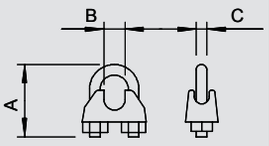
Type	Clamping range D mm	For rope-Ø mm	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
4021 K 6-13 V4A	6-13	4-9	M4 x 15	100		100	1.300	**2307 62 2**
4021 K 9-16 V4A	9-16	4-9	M4 x 15	100		100	1.460	**2307 63 8**

V4A Stainless steel, grade 316 Ti /100 pc.

The cable and pipe fastenings of the special system include cable ties, fastening straps and installation strips, with which cable and pipe installations can be fastened to cable support systems such as cable or mesh cable trays or other mounting constructions. A complete tensioning wire system to suspend and catch cable weights is also a component part of the special system.

Application for exterior areas!

D1 mm	D2 mm	A mm	b mm	b1 mm
6–13	4–9	21.5	11.5	16
9–16	4–9	26	14	18.3

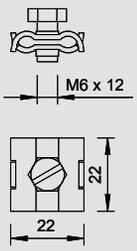


Wire cable clamp

Type	For rope-Ø mm	Dimension A mm	Dimension B mm	Dimension C mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
947 3 F	3	20	4	4	1000		25	1.060	**5302 02 1**
947 5 F	5	24	6	5	900		25	1.400	**5302 05 6**
947 6 F	6	28	8	5	750		25	1.700	**5302 06 4**
947 8 F	8	34	9	6	360		10	3.100	**5302 08 0**
947 10 F	10	42	11	8	200		10	6.500	**5302 10 2**

TG Cast iron F Hot-dip galvanised /100 pc.

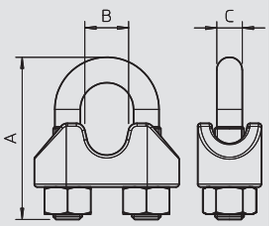
Wire cable clamp for fastening steel wire tensioning cables. ## Application for interior areas! ##



Type	For rope-Ø mm	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
261 3-6 G	3-6	M6 x 12	600		100	1.500	**5305 01 2**

St Steel G Electrogalvanised /100 pc.

Wire cable clamp for fastening steel wire tensioning cables. ## Application for interior areas! ##



Wire cable clamp, V4A

Type	For rope-Ø mm	Dimension A mm	Dimension B mm	Dimension C mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
947 3 V4A	3	20	4	4	1000		25	0.700	**5302 17 0**
947 5 V4A	5	24	6	5	900		25	1.500	**5302 17 4**
947 6 V4A	6	28	8	5	750		25	1.900	**5302 17 8**
947 8 V4A	8	34	9	6	360		10	3.200	**5302 18 2**
947 10 V4A	10	42	11	8	200		10	6.600	**5302 18 8**

V4A Stainless steel, grade 316 /100 pc.

Wire cable clamp for fastening steel wire tensioning cables. ## Application for exterior areas! ##

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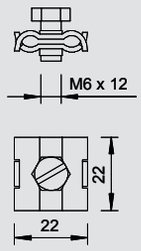
Wire cable clamp, V4A

Type	For rope-Ø mm	Bolt	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
261 3-6 V4A	3-6	M6 x 12	100		100	1.500	**5305 01 6**

V4A Stainless steel, grade 316 Ti /100 pc.

The cable and pipe fastenings of the special system include cable ties, fastening straps and installation strips, with which cable and pipe installations can be fastened to cable support systems such as cable or mesh cable trays or other mounting constructions. A complete tensioning wire system to suspend and catch cable weights is also a component part of the special system.

Application for exterior areas!



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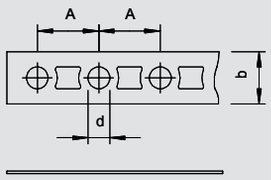
Always indicate the item number when ordering.



Perforated steel strap

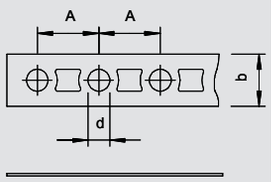
Type	Dimension mm	Per roll m	Weight kg/100 pcs.	Item No.
5055 I12 FS	12 x 1	10	73.000	**1470 12 4**
5055 II17 FS	17 x 1	10	106.000	**1470 17 5**
5055 III26 FS	26 x 1.2	10	204.500	**1470 26 4**
5055 LI12 FS	12 x 0.75	10	59.000	**1471 12 0**
5055 LII17 FS	17 x 0.75	10	84.200	**1471 17 1**
5055 LIII26 26	26 x 1	10	172.300	**1471 26 0**

St Steel FS Strip-galvanised /pc.

Perforated steel strap, in practical uncoiling box.

Important dimensions, installation strip

Dimension mm	d mm	A mm	b mm
12 x 1	5.2	14.4	12
17 x 1	6.5	20	17
26 x 1.2	8.5	25	26
12 x 0.75	5.2	14.4	12
17 x 0.75	6.5	20	17
26 x 1	8.5	25	26



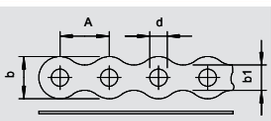
Perforated steel strap, V4A

Type	Dimension mm	Per roll m	Weight kg/100 pcs.	Item No.
5055 I12 V4A	12 x 1	10	73.000	**1470 12 9**
5055 II17 V4A	17 x 1	10	106.000	**1470 18 0**
5055 III26 V4A	26 x 1.2	10	204.500	**1470 27 0**
5055 LI12 V4A	12 x 0.75	10	59.000	**1471 12 6**
5055 LII17 V4A	17 x 0.75	10	84.200	**1471 17 7**
5055 LIII26 V4A	26 x 1	10	172.300	**1471 26 6**

V4A Stainless steel, grade 316 Ti /pc.

Perforated steel strap, in practical uncoiling box.

Dimension mm	d mm	A mm	b mm
12 x 1	5.2	14.4	12
17 x 1	6.5	20	17
26 x 1.2	8.5	25	26
12 x 0.75	5.2	14.4	12
17 x 0.75	6.5	20	17
26 x 1	8.5	25	26



Perforated steel strap, ridged

Type	Dimension mm	Per roll m	Weight kg/100 pcs.	Item No.
5062 I12 FS	12 x 1	10	69.000	**1475 12 6**
5062 II17 FS	17 x 1	10	98.500	**1475 17 7**
5062 III26 FS	26 x 1.2	10	183.000	**1475 26 6**
5062 LI12 12	12 x 0.75	10	57.000	**1475 62 2**
5062 LII17 FS	17 x 0.75	10	73.000	**1475 67 3**
5062 LIII26 FS	26 x 1	10	153.000	**1475 76 2**

St Steel FS Strip-galvanised /pc.

Perforated strap with wavy edges, in practical uncoiling box.

Important dimensions, installation strip

Dimension mm	d mm	A mm	b mm	b1 mm
12 x 1	5	14	12	7.4
17 x 1	7	20	17	10.4
26 x 1.2	9	25	26	17.2
12 x 0.75	5	14	12	7.4
17 x 0.75	7	20	17	10.4
26 x 1	9	25	26	17.2

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Always indicate the item number when ordering.

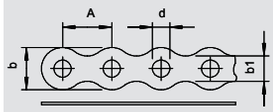
Perforated steel strap, ridged, V4A

Type	Dimension mm	Per roll m		Weight kg/100 pcs.	Item No.
5062 I12 V4A	12 x 1	10		69.000	**1475 13 2**
5062 II17 V4A	17 x 1	10		98.500	**1475 18 3**
5062 III26 V4A	26 x 1.2	10		183.000	**1475 27 2**
5062 LI12 V4A	12 x 0.75	10		57.000	**1475 62 8**
5062 LII17 V4A	17 x 0.75	10		–	**1475 67 9**
5062 LIII26 V4A	26 x 1	10		153.000	**1475 76 8**

V4A Stainless steel, grade 316 Ti /pc.

Perforated strap with wavy edges, in practical uncoiling box.

Dimension mm	d mm	A mm	b mm	b1 mm
12 x 1	5	14	12	7.4
17 x 1	7	20	17	10.4
26 x 1.2	9	25	26	17.2
12 x 0.75	5	14	12	7.4
17 x 0.75	7	20	17	10.4
26 x 1	9	25	26	17.2



Perforated steel strap, plastic-coated

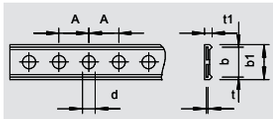
Type	Dimension mm	Per roll m		Weight kg/100 pcs.	Item No.
5055 L PE I 14	13 x 3	10		70.000	**1473 22 0**
5055 L PE II 19	19 x 3	10		100.500	**1473 27 1**
5055 L PE III 28	28 x 3.7	10		167.500	**1473 36 0**

St Steel FS Strip-galvanised /pc.

Perforated steel strap with PE plastic jacketing.

Important dimensions, installation strip

Dimension mm	d mm	A mm	b mm	b1 mm	t mm	t1 mm
12 x 0.75	5.2	12	12	14	0.75	3
17 x 0.75	6.5	15	17	19	0.75	3
26 x 1	8.5	20	26	28	1	3.7



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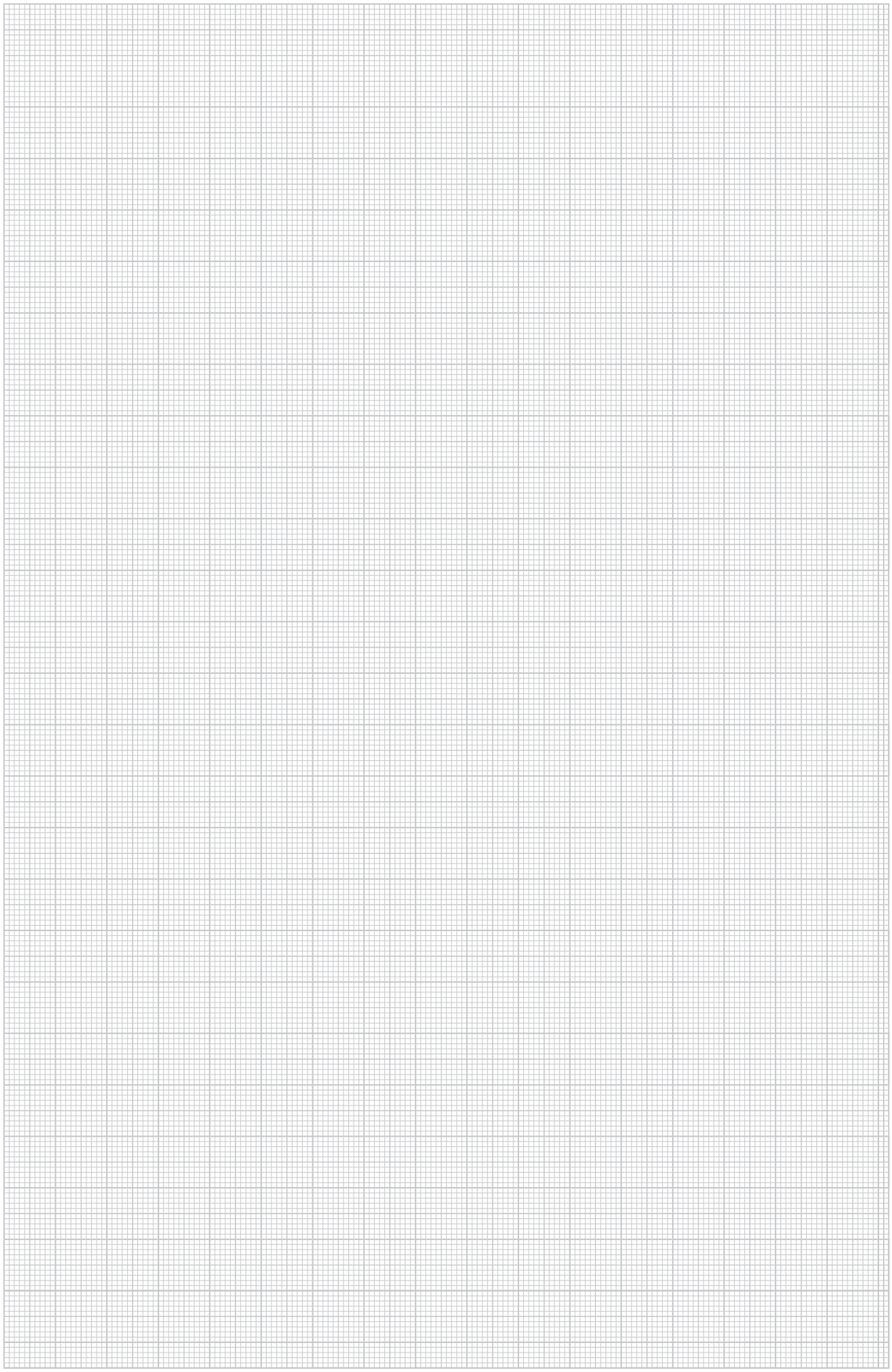

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Pipe systems

	Steel armoured pipes and accessories	Electrogalvanised	326 326
	Steel armoured pipes and accessories	System Repeat, painted black	326 327
	Steel armoured pipes and accessories	System Repeat, hot galvanised	326 327
	Stainless steel pipes and accessories	V2A, V4A	331 332
	Aluminium pipes and accessories		331 332
	System accessories	End socket, metric End socket, PG Connection sleeve with thread	333 333
	Quick pipe system	Quick pipe Quick pipe system accessories, T piece Quick pipe system accessories, bend	334 335 334

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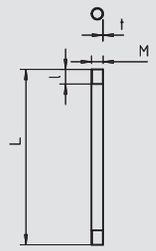
Steel armoured pipe, with thread

5 5 5 7 1

Type	Dimension M	Dimension L mm	Dimension t mm		Pack. m	Weight kg/100 m	Item No.
SM16 W G	M16	3000	1.4		30	50.000	**2046 86 1**
SM20 W G	M20	3000	1.6		30	73.400	**2046 86 2**
SM25 W G	M25	3000	1.6		30	93.400	**2046 86 3**
SM32 W G	M32	3000	1.6		21	120.000	**2046 86 4**
SM40 W G	M40	3000	1.6		15	150.000	**2046 86 5**
SM50 W G	M50	3000	1.6		15	190.000	**2046 86 6**
SM63 W G	M63	3000	1.8		9	283.400	**2046 86 7**

St Steel G Electrogalvanised /100 m

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.



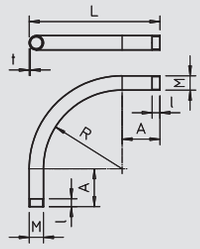
Armoured steel pipe bend, with thread

5 5 5 7 1

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SBM16 W G	M16	113	1.4	47		15	8.000	**2046 86 8**
SBM20 W G	M20	160	1.6	80		25	10.000	**2046 86 9**
SBM25 W G	M25	182.5	1.6	77.5		25	30.000	**2046 87 0**
SBM32 W G	M32	206	1.6	114		20	40.000	**2046 87 1**
SBM40 W G	M40	300	1.6	180		15	80.000	**2046 87 2**
SBM50 W G	M50	325	1.6	175		5	100.000	**2046 87 3**
SBM63 W G	M63	411.5	1.8	218.5		3	190.000	**2046 87 4**

St Steel G Electrogalvanised /100 pc.

Accessory part: 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.



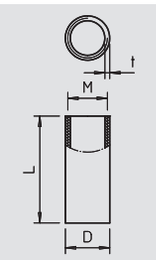
Armoured steel pipe connection sleeve, with thread

5 5 5 7 1

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SVM16 W G	M16	26	18.5	2		25	2.000	**2046 87 5**
SVM20 W G	M20	30	22.5	2		50	2.000	**2046 87 6**
SVM25 W G	M25	40	27.5	2		50	5.000	**2046 87 7**
SVM32 W G	M32	40	35.5	2.5		50	8.000	**2046 87 8**
SVM40 W G	M40	45	43.5	2.5		25	11.000	**2046 87 9**
SVM50 W G	M50	54	53.5	2.5		10	16.000	**2046 88 0**
SVM63 W G	M63	60	68	3.2		5	30.000	**2046 88 1**

St Steel G Electrogalvanised /100 pc.

Accessory part: Pipe connection sleeve with thread to DIN EN 60423 to connect electrical installation pipes and 90° bends. With burr-free inner wall.



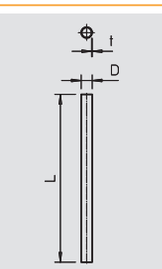
Steel armoured pipe, without thread

4 4 5 7 1

Type	Dimension M	Dimension L mm	Dimension t mm		Pack. m	Weight kg/100 m	Item No.
S16 W G	M16	3000	1		30	37.000	**2046 84 0**
S20 W G	M20	3000	1		30	38.000	**2046 84 1**
S25 W G	M25	3000	1.2		30	70.000	**2046 84 2**
S32 W G	M32	3000	1.2		21	90.000	**2046 84 3**
S40 W G	M40	3000	1.2		15	113.400	**2046 84 4**
S50 W G	M50	3000	1.2		15	143.400	**2046 84 5**
S63 W G	M63	3000	1.2		9	183.400	**2046 84 6**

St Steel G Electrogalvanised /100 m

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.



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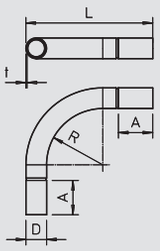
Always indicate the item number when ordering.



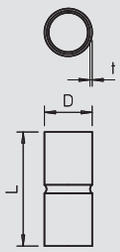
Armoured steel pipe bend, without thread

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SB16 W G	M16	114.3	1	50.7		15	8.000	**2046 84 7**
SB20 W G	M20	116.55	1.2	58.45		25	12.000	**2046 84 8**
SB25 W G	M25	144.05	1.2	65.95		25	18.000	**2046 84 9**
SB32 W G	M32	172.6	1.2	62.4		20	29.000	**2046 85 0**
SB40 W G	M40	271.9	1.5	148.1		15	71.000	**2046 85 1**
SB63 W G	M63	418.5	1.5	216.55		3	173.000	**2046 85 3**
SB50 W G	M50	320	1.5	173.05		5	108.000	**2046 85 2**

St Steel G Electrogalvanised /100 pc.

Accessory part: 90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

4 4 5 7 1



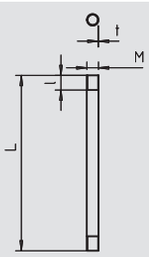
Armoured steel pipe connection sleeve, without thread

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SV16 W G	M16	50	18.6	1		25	2.000	**2046 85 4**
SV20 W G	M20	60	23.1	1.2		50	4.000	**2046 85 5**
SV25 W G	M25	60	28.1	1.2		50	5.000	**2046 85 6**
SV32 W G	M32	70	35.2	1.2		50	7.000	**2046 85 7**
SV40 W G	M40	80	43.8	1.5		25	13.000	**2046 85 8**
SV50 W G	M50	100	54	1.5		10	20.000	**2046 85 9**
SV63 W G	M63	100	67	1.5		5	26.000	**2046 86 0**

St Steel G Electrogalvanised /100 pc.

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

4 4 5 7 1



Steel armoured pipe, with thread

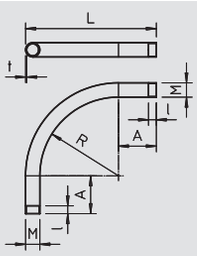
M

Type	Dimension M	Dimension L mm	Dimension t mm	Colour		Pack. m	Weight kg/100 m	Item No.
SM16W SW	M16	3000	1.4	Black		30	50.000	**2046 50 0**
SM20W SW	M20	3000	1.6	Black		30	73.000	**2046 50 1**
SM25W SW	M25	3000	1.6	Black		30	92.000	**2046 50 2**
SM32W SW	M32	3000	1.6	Black		21	120.000	**2046 50 3**
SM40W SW	M40	3000	1.6	Black		15	152.000	**2046 50 5**
SM50W SW	M50	3000	1.6	Black		15	190.700	**2046 50 6**
SM63W SW	M63	3000	1.8	Black		9	272.000	**2046 50 7**

St Steel L Painted /100 m

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.

5 5 5 6 1



Armoured steel pipe bend, with thread

M

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
SBM16W SW	M16	113	1.4	47	Black		15	9.600	**2046 51 1**
SBM20W SW	M20	160	1.6	80	Black		25	14.400	**2046 51 3**
SBM25W SW	M25	182.5	1.6	77.5	Black		25	22.800	**2046 51 4**
SBM32W SW	M32	206	1.6	114	Black		20	35.700	**2046 51 5**
SBM40W SW	M40	300	1.6	180	Black		15	80.670	**2046 51 6**
SBM50W SW	M50	325	1.6	175	Black		5	123.000	**2046 51 7**
SBM63W SW	M63	411.5	1.8	218.5	Black		3	201.330	**2046 51 8**

St Steel L Painted /100 pc.

Accessory part: 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.

5 5 5 6 1

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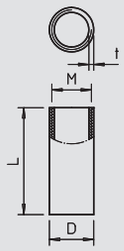
Armoured steel pipe connection sleeve, with thread

5 5 5 6 1

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SVM16W SW	M16	26	18.5	2		25	1.600	**2046 52 2**
SVM20W SW	M20	30	22.5	2		50	2.400	**2046 52 3**
SVM25W SW	M25	40	27.5	2		50	4.400	**2046 52 4**
SVM32W SW	M32	40	35.5	2.5		50	7.200	**2046 52 5**
SVM40W SW	M40	45	43.5	2.5		25	10.000	**2046 52 6**
SVM50W SW	M50	54	53.5	2.5		10	15.000	**2046 52 7**
SVM63W SW	M63	60	68	3.2		5	28.000	**2046 52 8**

St Steel L Painted /100 pc.

Accessory part: Pipe connection sleeve with thread to DIN EN 60423 to connect electrical installation pipes and 90° bends. With burr-free inner wall.



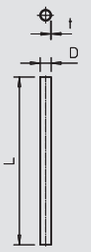
Steel armoured pipe, without thread

4 4 5 6 1

Type	Dimension M	Dimension D mm	Dimension L mm	Dimension t mm	Colour		Pack. m	Weight kg/100 m	Item No.
S16W SW	M16	16	3000	1	Black		30	37.000	**2046 56 5**
S20W SW	M20	20	3000	1	Black		30	47.000	**2046 56 6**
S25W SW	M25	25	3000	1.2	Black		30	70.000	**2046 56 7**
S32W SW	M32	32	3000	1.2	Black		21	91.000	**2046 56 8**
S40W SW	M40	40	3000	1.2	Black		15	114.700	**2046 56 9**
S50W SW	M50	50	3000	1.2	Black		15	144.000	**2046 57 0**
S63W SW	M63	63	3000	1.2	Black		9	182.700	**2046 57 1**

St Steel L Painted /100 m

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.



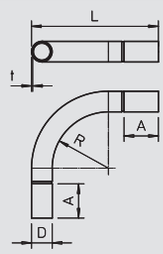
Armoured steel pipe bend, without thread

4 4 5 6 1

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
SB16W SW	M16	114.3	1	50.7	Black		15	8.000	**2046 57 5**
SB20W SW	M20	116.55	1.2	58.45	Black		25	12.000	**2046 57 6**
SB25W SW	M25	144.05	1.2	65.95	Black		25	18.400	**2046 57 7**
SB32W SW	M32	172.6	1.2	62.4	Black		20	28.500	**2046 57 8**
SB40W SW	M40	271.9	1.5	148.1	Black		15	70.670	**2046 57 9**
SB50W SW	M50	320	1.5	173.05	Black		5	108.000	**2046 58 0**
SB63W SW	M63	418.5	1.5	216.55	Black		3	173.340	**2046 58 1**

St Steel L Painted /100 pc.

Accessory part: 90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.



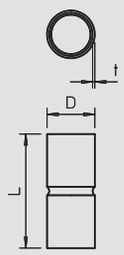
Armoured steel pipe connection sleeve, without thread

4 4 5 6 1

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
SV16W SW	M16	50	18.6	1	Black		25	2.400	**2046 58 2**
SV20W SW	M20	60	23.1	1.2	Black		50	4.000	**2046 58 3**
SV25W SW	M25	60	28.1	1.2	Black		50	5.200	**2046 58 4**
SV32W SW	M32	70	35.2	1.2	Black		50	7.200	**2046 58 5**
SV40W SW	M40	80	43.8	1.5	Black		25	13.200	**2046 58 6**
SV50W SW	M50	100	54	1.5	Black		10	20.000	**2046 58 7**
SV63W SW	M63	100	67	1.5	Black		5	26.000	**2046 58 8**

St Steel L Painted /100 pc.

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.



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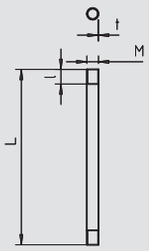
Always indicate the item number when ordering.



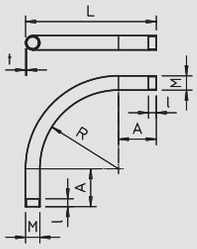
Steel armoured pipe, with thread

Type	Dimension M	Dimension L mm	Dimension t mm		Pack. m	Weight kg/100 m	Item No.
SM16W FT	M16	3000	1.4		30	54.000	**2046 53 3**
SM20W FT	M20	3000	1.6		30	79.000	**2046 53 4**
SM25W FT	M25	3000	1.6		30	99.000	**2046 53 5**
SM32W FT	M32	3000	1.6		21	130.000	**2046 53 6**
SM40W FT	M40	3000	1.6		15	164.000	**2046 53 7**
SM50W FT	M50	3000	1.6		15	206.000	**2046 53 8**
SM63W FT	M63	3000	1.8		9	294.000	**2046 54 0**

St Steel FT Hot-dip galvanised /100 m

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.

5 5 5 7 1



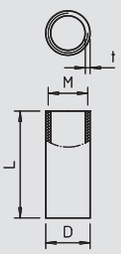
Armoured steel pipe bend, with thread

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SBM16W FT	M16	113	1.4	47		15	10.000	**2046 54 5**
SBM20W FT	M20	160	1.6	80		25	21.000	**2046 54 6**
SBM25W FT	M25	182.5	1.6	77.5		25	37.600	**2046 54 8**
SBM32W FT	M32	206	1.6	114		20	42.000	**2046 54 9**
SBM40W FT	M40	300	1.6	180		15	78.000	**2046 55 0**
SBM50W FT	M50	325	1.6	175		5	106.000	**2046 55 1**
SBM63W FT	M63	411.5	1.8	218.5		3	223.330	**2046 55 2**

St Steel FT Hot-dip galvanised /100 pc.

Accessory part: 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.

5 5 5 7 1



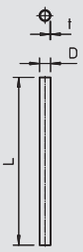
Armoured steel pipe connection sleeve, with thread

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SVM16W FT	M16	26	18.5	2		25	2.000	**2046 55 3**
SVM20W FT	M20	30	22.5	2		50	3.000	**2046 55 4**
SVM25W FT	M25	40	27.5	2		50	5.000	**2046 55 6**
SVM32W FT	M32	40	35.5	2.5		50	9.000	**2046 55 7**
SVM40W FT	M40	45	43.5	2.5		25	12.000	**2046 55 8**
SVM50W FT	M50	54	53.5	2.5		10	18.000	**2046 55 9**
SVM63W FT	M63	60	68	3.2		5	32.000	**2046 56 0**

St Steel FT Hot-dip galvanised /100 pc.

Accessory part: Pipe connection sleeve with thread to DIN EN 60423 to connect electrical installation pipes and 90° bends. With burr-free inner wall.

5 5 5 7 1



Steel armoured pipe, without thread

Type	Dimension M	Dimension L mm	Dimension t mm		Pack. m	Weight kg/100 m	Item No.
S16W FT	M16	3000	1		30	40.000	**2046 59 3**
S20W FT	M20	3000	1		30	51.000	**2046 59 4**
S25W FT	M25	3000	1.2		30	76.000	**2046 59 5**
S32W FT	M32	3000	1.2		21	98.000	**2046 59 6**
S40W FT	M40	3000	1.2		15	124.000	**2046 59 7**
S50W FT	M50	3000	1.2		15	156.000	**2046 59 8**
S63W FT	M63	3000	1.2		9	198.000	**2046 59 9**

St Steel FT Hot-dip galvanised /100 m

Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free interior wall.

4 4 5 7 1

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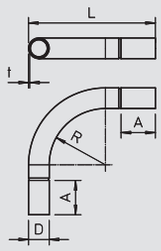
Armoured steel pipe bend, without thread

4 | 4 | 5 | 7 | 1

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SB16W FT	M16	114.3	1	50.7		15	9.000	**2046 60 4**
SB20W FT	M20	116.55	1.2	58.45		25	13.000	**2046 60 5**
SB25W FT	M25	144.05	1.2	65.95		25	20.000	**2046 60 6**
SB32W FT	M32	172.6	1.2	62.4		20	31.000	**2046 61 0**
SB40W FT	M40	301.9	1.5	148.1		15	73.000	**2046 61 4**
SB50W FT	M50	320	1.5	173.05		5	105.000	**2046 61 5**
SB63W FT	M63	418.5	1.5	216.55		3	174.000	**2046 61 6**

St Steel FT Hot-dip galvanised /100 pc.

Accessory part: 90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.



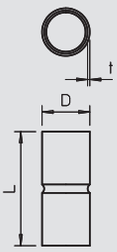
Armoured steel pipe connection sleeve, without thread

4 | 4 | 5 | 7 | 1

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SV16W FT	M16	50	18.6	1		25	2.000	**2046 62 0**
SV20W FT	M20	60	23.1	1.2		50	4.000	**2046 62 1**
SV25W FT	M25	60	28.1	1.2		50	5.000	**2046 62 2**
SV32W FT	M32	70	35.2	1.2		50	8.000	**2046 62 3**
SV40W FT	M40	80	43.8	1.5		25	14.000	**2046 62 4**
SV50W FT	M50	100	54	1.5		10	21.000	**2046 62 5**
SV63W FT	M63	100	67	1.5		5	28.000	**2046 62 6**

St Steel FT Hot-dip galvanised /100 pc.

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.



Stainless steel pipe, V2A

5 | 5 | 5 | 7 | 1

Type	Dimension M	Dimension L mm	Dimension t mm		Pack. m	Weight kg/100 m	Item No.
S16 W V2A	M16	3000	1		30	36.700	**2046 72 0**
S20 W V2A	M20	3000	1		30	46.700	**2046 72 1**
S25 W V2A	M25	3000	1		30	60.000	**2046 72 2**
S32 W V2A	M32	3000	1.2		21	93.400	**2046 72 3**
S40 W V2A	M40	3000	1.2		15	116.700	**2046 72 4**
S50 W V2A	M50	3000	1.5		15	180.000	**2046 72 5**
S63 W V2A	M63	3000	1.5		9	230.000	**2046 72 6**

V2A Stainless steel, 1.4307 /100 m

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

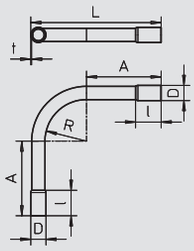
Stainless steel pipe bend, V2A

5 | 5 | 5 | 7 | 1

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SB16 W V2A	M16	153	1	46		15	10.000	**2046 73 0**
SB20 W V2A	M20	183	1	67		25	10.000	**2046 73 1**
SB25 W V2A	M25	208	1	82		25	20.000	**2046 73 2**
SB32 W V2A	M32	258	1.2	120		20	30.000	**2046 73 3**
SB40 W V2A	M40	276	1.2	130		15	50.000	**2046 73 4**
SB50 W V2A	M50	317	1.5	150		5	90.000	**2046 73 5**
SB63 W V2A	M63	376	1.5	191		3	120.000	**2046 73 6**

V2A Stainless steel, 1.4307 /100 pc.

Accessory part: 90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.



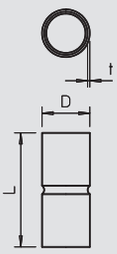
Stainless steel pipe connection sleeve, V2A

5 | 5 | 5 | 7 | 1

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SV16 W V2A	M16	45	18.2	1.6		25	2.000	**2046 74 0**
SV20 W V2A	M20	50	22.2	1.6		50	2.000	**2046 74 1**
SV25 W V2A	M25	60	27.2	1.6		50	4.000	**2046 74 2**
SV32 W V2A	M32	70	34.6	1.8		50	10.000	**2046 74 3**
SV40 W V2A	M40	80	42.6	1.8		25	10.000	**2046 74 4**
SV50 W V2A	M50	100	53.2	2.1		10	20.000	**2046 74 5**
SV63 W V2A	M63	110	66.3	2.15		5	30.000	**2046 74 6**

V2A Stainless steel, 1.4307 /100 pc.

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.



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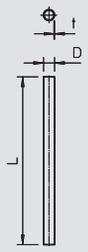
Always indicate the item number when ordering.



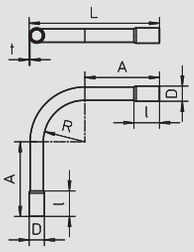
Stainless steel pipe, V4A

Type	Dimension M	Dimension L mm	Dimension t mm	Pack. m	Weight kg/100 m	Item No.
S16 W V4A	M16	3000	1	15	36.700	**2046 75 0**
S20 W V4A	M20	3000	1	15	46.700	**2046 75 1**
S25 W V4A	M25	3000	1	15	60.000	**2046 75 2**
S32 W V4A	M32	3000	1.2	15	93.400	**2046 75 3**
S40 W V4A	M40	3000	1.2	9	116.700	**2046 75 4**
S50 W V4A	M50	3000	1.5	9	180.000	**2046 75 5**
S63 W V4A	M63	3000	1.5	9	230.000	**2046 75 6**

V4A Stainless steel, grade 316 Ti /100 m

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

5 5 5 7 1



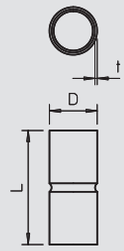
Stainless steel pipe bend, V4A

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SB16 W V4A	M16	153	1	46	5	10.000	**2046 76 0**
SB20 W V4A	M20	183	1	67	10	10.000	**2046 76 1**
SB25 W V4A	M25	208	1	82	10	20.000	**2046 76 2**
SB32 W V4A	M32	258	1.2	120	10	30.000	**2046 76 3**
SB40 W V4A	M40	276	1.2	130	5	50.000	**2046 76 4**
SB50 W V4A	M50	317	1.5	150	5	90.000	**2046 76 5**
SB63 W V4A	M63	376	1.5	191	3	120.000	**2046 76 6**

V4A Stainless steel, grade 316 Ti /100 pc.

Accessory part: 90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.

5 5 5 7 1



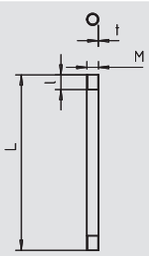
Stainless steel pipe connection sleeve, V4A

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SV16 W V4A	M16	45	18.2	1.6	10	2.000	**2046 77 0**
SV20 W V4A	M20	50	22.2	1.6	15	2.000	**2046 77 1**
SV25 W V4A	M25	60	27.2	1.6	15	4.000	**2046 77 2**
SV32 W V4A	M32	70	34.6	1.8	15	10.000	**2046 77 3**
SV40 W V4A	M40	80	42.6	1.8	10	10.000	**2046 77 4**
SV50 W V4A	M50	100	53.2	2.1	5	20.000	**2046 77 5**
SV63 W V4A	M63	110	66.3	2.15	3	30.000	**2046 77 6**

V4A Stainless steel, grade 316 Ti /100 pc.

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

5 5 5 7 1



Aluminium pipe, with thread

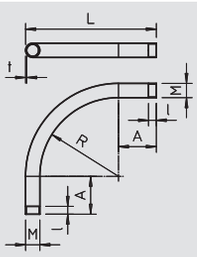
M

Type	Dimension M	Dimension L mm	Dimension t mm	Pack. m	Weight kg/100 m	Item No.
SM16 W ALU	M16	3000	1.6	30	20.000	**2046 03 2**
SM20 W ALU	M20	3000	1.9	30	90.000	**2046 03 3**
SM25 W ALU	M25	3000	1.9	30	110.000	**2046 03 4**
SM32 W ALU	M32	3000	1.9	30	150.000	**2046 03 5**
SM40 W ALU	M40	3000	1.9	15	180.000	**2046 03 6**
SM50 W ALU	M50	3000	2.1	15	260.000	**2046 03 7**
SM63 W ALU	M63	3000	2.1	15	330.000	**2046 03 8**

Al Aluminium /100 m

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.

5 5 5 6 1



Aluminium pipe bend, with thread

M

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SBM16 W ALU	M16	131	1.6	50	15	4.000	**2046 04 2**
SBM20 W ALU	M20	145	1.9	60	25	7.000	**2046 04 3**
SBM25 W ALU	M25	170	1.9	70	25	10.000	**2046 04 4**
SBM32 W ALU	M32	187	1.9	80	20	15.000	**2046 04 5**
SBM40 W ALU	M40	235	1.9	100	15	23.000	**2046 04 6**
SBM50 W ALU	M50	275	2.1	130	5	37.000	**2046 04 7**
SBM63 W ALU	M63	343	2.1	160	3	59.000	**2046 04 8**

Al Aluminium /100 pc.

Accessory part: 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.

5 5 5 6 1

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M

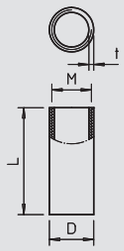
Aluminium pipe connection sleeve, with thread

5 5 5 6 1

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SVM16 W ALU	M16	35	18.5	2.25		50	1.000	**2046 05 2**
SVM20 W ALU	M20	35	22.5	2.25		50	1.000	**2046 05 3**
SVM25 W ALU	M25	45	28	2.5		50	2.000	**2046 05 4**
SVM32 W ALU	M32	45	35	2.5		50	3.000	**2046 05 5**
SVM40 W ALU	M40	45	43.5	2.75		20	4.000	**2046 05 6**
SVM50 W ALU	M50	55	53.5	2.75		20	6.000	**2046 05 7**
SVM63 W ALU	M63	55	66.5	2.8		20	7.000	**2046 05 8**

Al Aluminium /100 pc.

Accessory part: Pipe connection sleeve with thread to DIN EN 60423 to connect electrical installation pipes and 90° bends. With burr-free inner wall.



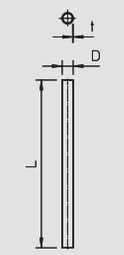
Aluminium pipe, without thread

4 4 5 6 1

Type	Dimension M	Dimension L mm	Dimension t mm		Pack. m	Weight kg/100 m	Item No.
S16 W ALU	M16	3000	1.2		30	15.000	**2046 00 2**
S20 W ALU	M20	3000	1.2		30	19.000	**2046 00 3**
S25 W ALU	M25	3000	1.3		30	26.000	**2046 00 4**
S32 W ALU	M32	3000	1.3		30	34.000	**2046 00 5**
S40 W ALU	M40	3000	1.4		15	45.700	**2046 00 6**
S50 W ALU	M50	3000	1.4		15	57.700	**2046 00 7**
S63 W ALU	M63	3000	1.7		15	83.400	**2046 00 8**

Al Aluminium /100 m

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.



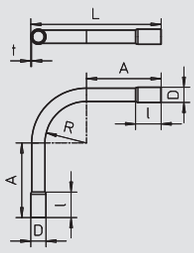
Aluminium pipe bend, without thread

4 4 5 6 1

Type	Dimension M	Dimension L mm	Dimension t mm	Dimension R mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SB16 W ALU	M16	157	1.2	50		15	4.000	**2046 01 2**
SB20 W ALU	M20	176	1.2	60		25	6.000	**2046 01 3**
SB25 W ALU	M25	196	1.3	70		25	9.000	**2046 01 4**
SB32 W ALU	M32	218	1.3	80		20	12.000	**2046 01 5**
SB40 W ALU	M40	247	1.4	100		15	20.000	**2046 01 6**
SB50 W ALU	M50	297	1.4	130		5	31.000	**2046 01 7**
SB63 W ALU	M63	340	1.7	160		3	45.000	**2046 01 8**

Al Aluminium /100 pc.

Accessory part: 90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1. With burr-free inner wall.



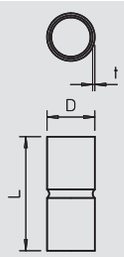
Aluminium pipe connection sleeve, without thread

4 4 5 6 1

Type	Dimension M	Dimension L mm	Dimension D mm	Dimension t mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SV16 W ALU	16	40	16.2	1.2		50	1.000	**2046 02 2**
SV20 W ALU	20	50	20.2	1.2		50	1.000	**2046 02 3**
SV25 W ALU	25	60	25.2	1.2		50	2.000	**2046 02 4**
SV32 W ALU	32	70	32.2	1.2		50	2.000	**2046 02 5**
SV40 W ALU	40	70	40.2	1.4		20	3.000	**2046 02 6**
SV50 W ALU	50	90	50.2	1.4		20	5.000	**2046 02 7**
SV63 W ALU	63	110	63.2	1.5		20	9.000	**2046 02 8**

Al Aluminium /100 pc.

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.



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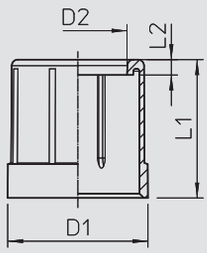
Always indicate the item number when ordering.



Pipe end cap, metric

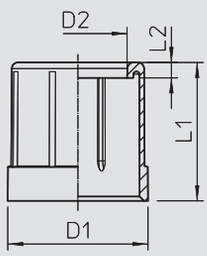
Type	Size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
129 M16	M16	Light grey	1000		100	0.240	**2047 81 0**
129 M20	M20	Light grey	1200		100	0.330	**2047 82 9**
129 M25	M25	Light grey	600		50	0.610	**2047 83 7**
129 M32	M32	Light grey	600		50	1.070	**2047 85 3**
129 M40	M40	Light grey	50		50	1.440	**2047 86 1**
129 M50	M50	Light grey	25		25	2.180	**2047 88 8**
129 M63	M63	Light grey	25		25	2.810	**2047 89 6**

PE Polyethylene /100 pc.

Cable protection sleeve for attachment on electrical installation pipes.

Important dimensions, pipe end socket

G	D1 mm	D2 mm	L1 mm	L2 mm
M16	19.4	12.5	18	2
M20	23.4	16	22.5	2.5
M25	28.4	21	27.5	2.5
M32	35.4	27.5	34	3
M40	43.4	35	41	3
M50	53.4	44.5	48	3
M63	66.4	55	59	4



Pipe end cap, metric

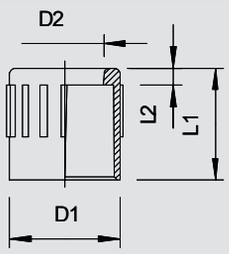
Type	Size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
129 M16 SW	M16	Black	1000		100	0.240	**2047 93 4**
129 M20 SW	M20	Black	1200		100	0.330	**2047 94 2**
129 M25 SW	M25	Black	600		50	0.610	**2047 95 0**
129 M32 SW	M32	Black	600		50	1.070	**2047 96 9**
129 M40 SW	M40	Black	50		50	1.440	**2047 97 7**
129 M50 SW	M50	Black	25		25	2.180	**2047 98 5**
129 M63 SW	M63	Black	25		25	2.810	**2047 99 3**

PE Polyethylene /100 pc.

Cable protection sleeve for attachment on electrical installation pipes.

Important dimensions, pipe end socket

G	D1 mm	D2 mm	L1 mm	L2 mm
M16	19.4	12.5	18	2
M20	23.4	16	22.5	2.5
M25	28.4	21	27.5	2.5
M32	35.4	27.5	34	3
M40	43.4	35	41	3
M50	53.4	44.5	48	3
M63	66.4	55	59	4



Pipe end cap, PG

Type	Size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
129 PG 9	Pg 9	Light grey	1200		100	0.240	**2044 09 9**
129 PG11	Pg 11	Light grey	1000		100	0.280	**2044 11 0**
129 PG13.5	Pg 13,5	Light grey	1200		100	0.330	**2044 13 7**
129 PG16	Pg 16	Light grey	1200		100	0.400	**2044 16 1**
129 PG21	Pg 21	Light grey	600		50	0.610	**2044 21 8**
129 PG29	Pg 29	Light grey	50		50	1.070	**2044 29 3**
129 PG36	Pg 36	Light grey	50		50	1.440	**2044 36 6**
129 PG42	Pg 42	Light grey	25		25	2.180	**2044 42 0**
129 PG48	Pg 48	Light grey	25		25	2.810	**2044 47 1**

PE Polyethylene /100 pc.

Cable protection sleeve for attachment on PG pipes.

Important dimensions, pipe end socket, PG

G	D1 mm	D2 mm	L1 mm	L2 mm
Pg 9	18.3	12	20	4
Pg 11	21.7	15	22	4
Pg 13.5	23.5	16	24	4
Pg 16	25.6	18	26	4
Pg 21	31.6	24	30	4
Pg 29	40.3	32.5	38	4
Pg 36	50.8	40	44	4
Pg 42	58.2	46	50	4
Pg 48	63.9	50	56	4

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Quick pipe

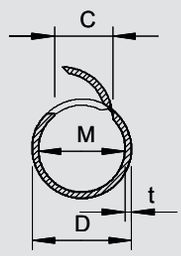
Type	Size	Colour	Length mm		Pack. m	Weight kg/100 m	Item No.
2953 M16 LGR	M16	Light grey	2000		50	7.000	**2153 90 4**
2953 M20 LGR	M20	Light grey	2000		40	11.500	**2153 91 2**
2953 M25 LGR	M25	Light grey	2000		30	16.000	**2153 92 0**
2953 M32 LGR	M32	Light grey	2000		20	21.500	**2153 93 9**
2953 M16 RW	M16	Pure white	2000		50	7.700	**2153 96 0**
2953 M20 RW	M20	Pure white	2000		40	11.500	**2153 96 3**
2953 M25 RW	M25	Pure white	2000		30	16.000	**2153 96 6**
2953 M32 RW	M32	Pure white	2000		20	21.500	**2153 96 9**

PVC Polyvinylchloride /100 m

Smallest shipped quantity is shipping box.
The Quick pipe combines the advantages of a cable duct and an installation pipe into an intelligent system. It allows tidy and safe surface-mounted installation of all kinds of cables – even in a pipe. Quick pipe is available in four metric sizes: M16, M20, M25 and M32. The stock length is 2 m. The system is VDE-tested and achieves a protection rating of IP44. The fittings are a component part of the system.

Important dimensions, Quick pipe

G	D mm	M mm	C mm	t mm
M16	15.6	13.2	8.2	1.2
M20	20	17	10	1.5
M25	25	21.8	13.6	1.6
M32	32	28.6	17	1.6



90° Quick pipe bend

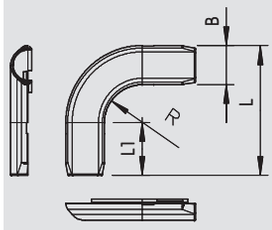
Type	Size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2953 B M16 LGR	M16	Light grey	60		5	1.810	**2153 86 4**
2953 B M20 LGR	M20	Light grey	50		5	1.900	**2153 86 6**
2953 B M25 LGR	M25	Light grey	50		5	2.020	**2153 86 8**
2953 B M32 LGR	M32	Light grey	60		5	2.140	**2153 87 0**
2953 B M16 RW	M16	Pure white	60		5	1.810	**2153 98 0**
2953 B M20 RW	M20	Pure white	50		5	1.900	**2153 98 2**
2953 B M25 RW	M25	Pure white	50		5	2.020	**2153 98 4**
2953 B M32 RW	M32	Pure white	60		5	2.140	**2153 98 6**

PVC Polyvinylchloride /pc.

90° bends are tested to VDE 0604 (system consists of: Quick pipe + fittings + 2955 F/...).

Important dimensions, 90° bend

G	B mm	L mm	L1 mm	R mm
M16	20.4	68.4	28	20
M20	25.5	82.5	35	22
M25	31.2	91.2	38	22
M32	38.7	102.7	42	22



Quick pipe connecting sleeve

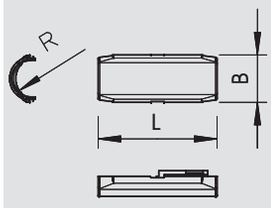
Type	Size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2953 M M16 LGR	M16	Light grey	150		10	0.910	**2153 82 9**
2953 M M20 LGR	M20	Light grey	100		10	1.020	**2153 83 1**
2953 M M25 LGR	M25	Light grey	120		10	1.130	**2153 83 3**
2953 M M32 LGR	M32	Light grey	100		10	1.250	**2153 83 5**
2953 M M16 RW	M16	Pure white	150		10	0.910	**2153 97 1**
2953 M M20 RW	M20	Pure white	100		10	1.020	**2153 97 3**
2953 M M25 RW	M25	Pure white	120		10	1.130	**2153 97 5**
2953 M M32 RW	M32	Pure white	100		10	1.250	**2153 97 7**

PVC Polyvinylchloride /pc.

Connection sleeves are tested to VDE 0604 (system consists of: Quick pipe + fittings + 2955 F/...).

Important dimensions, connection sleeve

G	R mm	B mm	L mm
M16	8	20.4	52
M20	10	25.5	65
M25	12.5	31.2	72
M32	16	38.7	80



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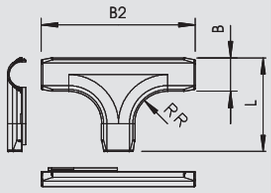
Always indicate the item number when ordering.



Quick pipe T piece

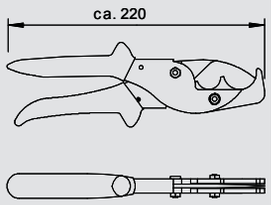
Type	Size	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2953 T M16 LGR	M16	Light grey	60		5	2.210	**2153 87 2**
2953 T M20 LGR	M20	Light grey	50		5	2.320	**2153 87 4**
2953 T M25 LGR	M25	Light grey	50		5	2.440	**2153 87 6**
2953 T M32 LGR	M32	Light grey	50		5	2.560	**2153 87 8**
2953 T M16 RW	M16	Pure white	60		5	2.210	**2153 99 2**
2953 T M20 RW	M20	Pure white	50		5	2.320	**2153 99 4**
2953 T M25 RW	M25	Pure white	50		5	2.440	**2153 99 6**
2953 T M32 RW	M32	Pure white	50		5	2.560	**2153 99 8**

PVC Polyvinylchloride /pc.

T pieces are tested to VDE 0604 (system consists of: Quick pipe + fittings + 2955 F/...).

Important dimensions, T piece

G	L	B	B2	R
	mm	mm	mm	mm
M16	57.4	20.4	94.4	20
M20	67.5	25.5	109.5	22
M25	77.2	31.2	123.2	22
M32	86.7	38.7	134.7	22

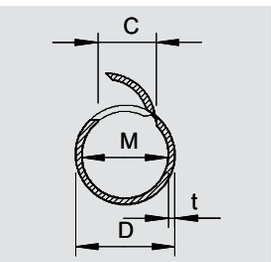


Quick duct shears

Type	Cutting area mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SQ 1632	16-32		1	40.000	**2153 57 2**

/pc.

For exact, burr-free cutting of the Quick ducts and Quick pipe of Ø 16–32 mm.



Set made of Quick clip and Quick pipe

Type	Size	Colour	Set consisting of		Pack. pcs	Weight kg/100 pcs.	Item No.
2954 M16 LGR	M16	Light grey	50 m Quick pipe and 156x OBO Quick clip		1	444.000	**2154 50 1**
2954 M20 LGR	M20	Light grey	40 m Quick pipe and 120x OBO Quick clip		1	508.000	**2154 52 8**
2954 M25 LGR	M25	Light grey	30 m Quick pipe and 96x OBO Quick clip		1	517.000	**2154 53 6**
2954 M32 LGR	M32	Light grey	20 m Quick pipe and 60x OBO Quick clip		1	479.000	**2154 54 4**

PVC Polyvinylchloride /pc.

The Quick pipe combines the advantages of a cable duct and an installation pipe into an intelligent system. It allows tidy and safe surface-mounted installation of all kinds of cables – even in a pipe. Quick pipe is available in four metric sizes: M16, M20, M25 and M32. The stock length is 2 m. The system is VDE-tested and achieves a protection rating of IP 44. The fittings are a component part of the system.

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Beam clamp systems

	Beam clamps for knocking-in	Gland hole With threaded bolt For pipes	338 338 339
	Beam clamps for screwing-in	Gland hole With thread For pipes	342 342 342
	Special beam bracket systems	Visible rail terminal Locknut	344 344
		Profile ceiling suspensions Beam clamp Beam clamp, Profile 1268	344 344 346
		Profile rails	346
	Self-build profile system	Self-build profile	348
		Head plate	348
		Triangular node	348
		90° mounting bracket	348
		Suspension chain	348
		S hook	348
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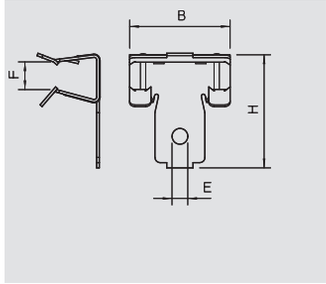
Beam clamps for knocking in

Beam clamp, gland hole

Type	Dimension B mm	Dimension H mm	Breaking load kN	Flange thickness mm	Dimension E mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TK 6-0	33.3	30	0.9	2-6	6.5	100	1.350	**1481 01 0**
TK 13-0	33.3	37	0.9	5-13	7	100	1.550	**1481 02 9**
TK 19-0	33.3	43	0.9	14-19	7	100	2.490	**1481 04 5**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With drill hole to accept S hooks or bolt with nut.

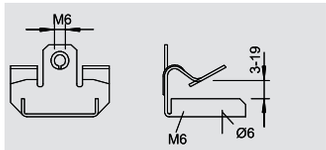


Beam clamp, with female thread

Type	Breaking load kN	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TKI 7-6	0.45	3-6.5	100	2.350	**1483 57 9**
TKI 13-6	0.45	7-13	100	2.350	**1483 58 7**
TKI 19-6	0.45	14-19	100	3.050	**1483 59 5**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With female thread M6.

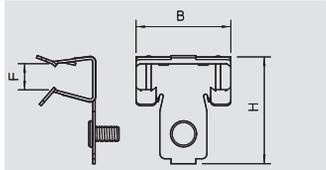


Beam clamp, with threaded bolt

Type	Flange thickness mm	Dimension B mm	Dimension H mm	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TK-G 4	2-4	28	28	M6 x 9	0.45	100	0.900	**1481 10 2**
TK-G 9	5-9	38	32	M6 x 9	0.45	100	1.600	**1481 10 8**
TK-G 16	10-16	38	42	M6 x 9	0.45	100	1.830	**1481 11 4**
TK-G 20	17-20	38	49	M6 x 9	0.45	100	2.000	**1481 12 0**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With M6 x 9 mm threaded rod for fastening clips or other components.

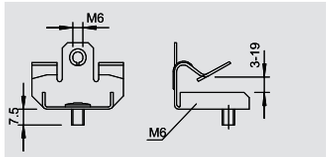


Beam clamp, with threaded bolt

Type	Breaking load kN	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TKG 7-6	0.45	3-6.5	100	2.400	**1483 44 7**
TKG 13-6	0.45	7-13	100	2.400	**1483 45 5**
TKG 19-6	0.45	14-19	100	3.100	**1483 46 3**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With threaded bolt M6 x 7.5 mm.

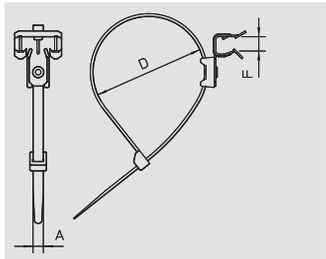


Beam clamp, with cable tie

Type	Dimension A mm	Breaking load kN	Flange thickness mm	Cable strip length mm	Max. D Ø	Pack. pcs	Weight kg/100 pcs.	Item No.
TKK 6-240	7.6	0.8	2-6	240	70	100	2.200	**1481 40 1**
TKK 6-365	7.6	0.8	2-6	365	110	100	1.300	**1481 42 8**
TKK13-240	7.6	0.8	5-13	240	70	100	2.500	**1481 45 2**
TKK13-365	7.6	0.8	5-13	365	110	100	2.000	**1481 46 0**
TKK19-240	7.6	0.8	14-19	240	70	100	2.300	**1481 53 3**
TKK19-365	7.6	0.8	14-19	365	110	100	2.400	**1481 54 1**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With cable ties to fix cable bundles.

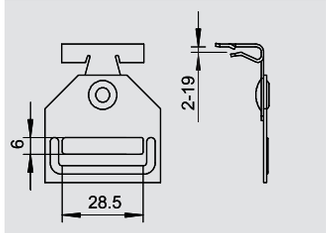


Beam clamp, for installation strip

Type	Breaking load kN	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TKR 6	0.9	2-6	100	1.800	**1481 70 3**
TKR 9	0.9	5-9	100	2.400	**1481 71 1**
TKR 19	0.9	14-19	100	3.400	**1481 74 6**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With seat for installation strip.



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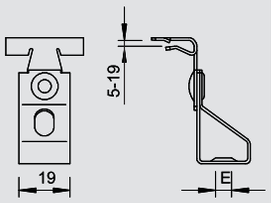
Always indicate the item number when ordering.

Beam clamp, for threaded rod

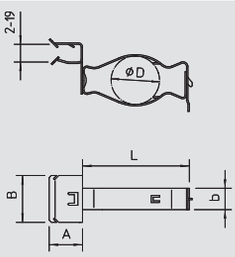


Type	For threaded rod	Dimension A mm	Breaking load kN	Flange thickness mm	Dimension E mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TKR 13-6	M6	52	0.9	5-13	6	100	3.040	**1482 06 8**
TKR 13-8	M8	52	0.9	5-13	8	100	3.040	**1482 07 6**
TKR 13-10	M10	52	0.9	5-13	10	100	3.040	**1482 08 4**
TKR 19-6	M6	59	0.9	14-19	6	100	3.180	**1482 11 4**
TKR 19-8	M8	59	0.9	14-19	8	100	3.180	**1482 12 2**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With rotating seat for threaded rod.

Beam clamp, for pipes

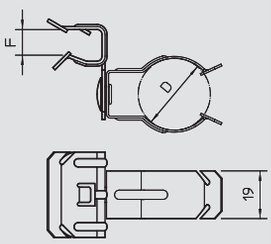


Type	Breaking load kN	Flange thickness mm	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TKS 6-25	0.45	2-6	18-25	100	2.490	**1483 01 3**
TKS 6-32	0.45	2-6	28-32	100	3.180	**1483 02 1**
TKS 6-37	0.45	2-6	35-37	100	3.450	**1483 04 8**
TKS 6-42	0.45	2-6	37-42	100	3.900	**1483 05 6**
TKS 13-25	0.45	5-13	18-25	100	2.720	**1483 10 2**
TKS 13-32	0.45	5-13	28-32	50	3.080	**1483 11 0**
TKS 13-37	0.45	5-13	35-37	50	3.540	**1483 12 9**
TKS 13-42	0.45	5-13	37-42	50	4.600	**1483 13 7**
TKS 19-25	0.45	14-19	18-25	50	4.500	**1483 30 7**
TKS 19-32	0.45	14-19	28-32	50	4.700	**1483 31 5**
TKS 19-37	0.45	14-19	35-37	50	4.850	**1483 32 3**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With rotating clip to accept pipes, lockable.

Beam clamp, for pipes

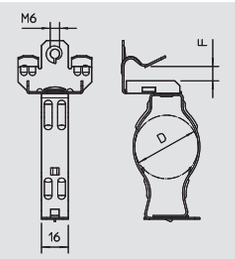


Type	Clamping range D mm	Breaking load kN	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TKC 6-20	17-20	0.11	2-6	100	2.220	**1482 40 8**
TKC 6-25	23-25	0.11	2-6	100	2.720	**1482 41 6**
TKC 13-20	17-20	0.11	5-13	100	1.500	**1482 46 7**
TKC 13-25	23-25	0.11	5-13	100	1.770	**1482 47 5**
TKC 13-32	25-32	0.11	5-13	100	1.900	**1482 48 3**
TKC 19-20	17-20	0.11	14-19	50	1.770	**1482 60 2**
TKC 19-25	23-25	0.11	14-19	50	1.810	**1482 61 0**
TKC 19-32	25-32	0.11	14-19	50	2.130	**1482 62 9**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With rotating clip to accept pipes.

Beam clamp, for pipes



Type	Breaking load kN	Flange thickness mm	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TKSU 7-25	0.11	3-6.5	18-25	50	3.700	**1484 30 3**
TKSU 7-32	0.11	3-6.5	28-32	50	4.050	**1484 31 1**
TKSU 7-37	0.11	3-6.5	35-37	50	4.400	**1484 33 8**
TKSU 7-42	0.11	3-6.5	37-42	25	4.800	**1484 34 6**
TKSU 13-25	0.11	7-13	18-25	50	4.150	**1484 40 0**
TKSU 13-32	0.11	7-13	28-32	50	4.450	**1484 41 9**
TKSU 13-37	0.11	7-13	35-37	50	4.750	**1484 42 7**
TKSU 13-42	0.11	7-13	37-42	25	5.520	**1484 43 5**
TKSU 19-25	0.11	14-19	18-25	50	4.550	**1484 50 8**
TKSU 19-32	0.11	14-19	28-32	50	4.900	**1484 51 6**
TKSU 19-37	0.11	14-19	35-37	25	5.450	**1484 52 4**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With rotating clip to accept pipes, lockable.

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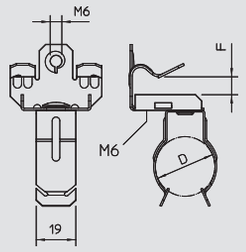
Beam clamps for knocking in

Beam clamp, for pipes

Type	Breaking load	Flange thickness	Clamping range D	Pack.	Weight	Item No.
	kN	mm	mm	pcs	kg/100 pcs.	
TKCU 7-20	0.11	3-6.5	17-20	50	3.760	**1484 00 1**
TKCU 7-25	0.11	3-6.5	23-25	50	3.900	**1484 02 8**
TKCU 7-32	0.11	3-6.5	25-32	50	4.350	**1484 03 6**
TKCU 13-20	0.11	7-13	17-20	50	4.220	**1484 07 9**
TKCU 13-25	0.11	7-13	23-25	50	4.350	**1484 08 7**
TKCU 13-32	0.11	7-13	25-32	50	4.800	**1484 09 5**
TKCU 19-20	0.11	14-19	17-20	50	4.450	**1484 13 3**
TKCU 19-25	0.11	14-19	23-25	50	4.550	**1484 14 1**
TKCU 19-32	0.11	14-19	25-32	50	5.350	**1484 16 8**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With rotating clip to accept pipes.

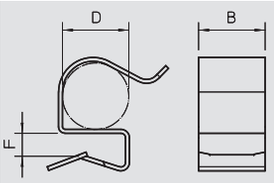


Beam clamp, for pipes

Type	Flange thickness	Dimension D	Dimension B	Cable Ø		Pack.	Weight	Item No.
	mm	mm	mm	mm		pcs	kg/100 pcs.	
TKCI 4-5 N	2-4	4.5-5.5	13.5	4.5-5.5		100	0.300	**1487 50 0**
TKCI 4-7 N	2-4	6-7	13.5	6-7		100	0.300	**1487 50 2**
TKCI 4-9 N	2-4	7-9	13.5	7-9		100	0.400	**1487 50 4**
TKCI 4-12 N	2-4	10-12	13.5	10-12		100	0.400	**1487 50 6**
TKCI 4-14 N	2-4	12-14	13.5	12-14		100	0.600	**1487 50 8**
TKCI 4-18 N	2-4	15-18	13.5	15-18		100	0.500	**1487 51 0**
TKCI 4-24 N	2-4	19-24	13.5	19-24		100	0.700	**1487 51 2**
TKCI 4-30 N	2-4	25-30	13.5	25-30		100	0.400	**1487 51 4**
TKCI 7-5 N	4-7	4.5-5.5	13.5	4.5-5.5		100	0.400	**1487 53 0**
TKCI 7-7 N	4-7	6-7	13.5	6-7		100	0.400	**1487 53 2**
TKCI 7-9 N	4-7	7-9	13.5	7-9		100	0.400	**1487 53 4**
TKCI 7-12 N	4-7	10-12	13.5	10-12		100	0.400	**1487 53 6**
TKCI 7-14 N	4-7	12-14	13.5	12-14		100	0.500	**1487 53 8**
TKCI 7-18 N	4-7	15-18	13.5	15-18		100	0.700	**1487 54 0**
TKCI 7-24 N	4-7	19-24	13.5	19-24		100	0.400	**1487 54 2**
TKCI 7-30 N	4-7	25-30	13.5	25-30		100	0.400	**1487 54 4**
TKCI 12-5 N	8-12	4.5-5.5	13.5	4.5-5.5		100	0.400	**1487 56 0**
TKCI 12-7 N	8-12	6-7	13.5	6-7		100	0.400	**1487 56 2**
TKCI 12-9 N	8-12	7-9	13.5	7-9		100	0.500	**1487 56 4**
TKCI 12-12 N	8-12	10-12	13.5	10-12		100	0.600	**1487 56 6**
TKCI 12-14 N	8-12	12-14	13.5	12-14		100	0.700	**1487 56 8**
TKCI 12-18 N	8-12	15-18	13.5	15-18		100	0.800	**1487 57 0**
TKCI 12-24 N	8-12	19-24	13.5	19-24		100	0.900	**1487 57 2**
TKCI 12-30 N	8-12	25-30	13.5	25-30		100	1.000	**1487 57 4**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With internal pipe clip.

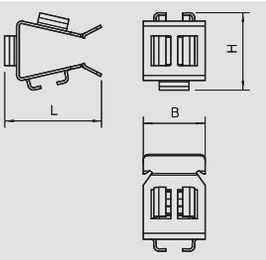


Beam clamp, for pipes

Type	Flange thickness	Dimension L	Dimension B	Dimension H		Pack.	Weight	Item No.
	mm	mm	mm	mm		pcs	kg/100 pcs.	
TKCI-A	12-20	37	25	32		50	1.700	**1487 49 6**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Beam clamp adapter for flange thicknesses of 12 to 20 mm, with three seats for the beam clamps TKCI 5.

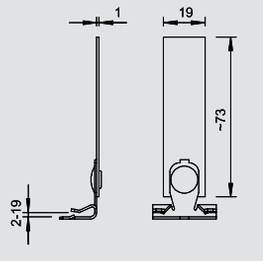


Beam clamp, with strap

Type	Breaking load	Flange thickness	Pack.	Weight	Item No.
	kN	mm	pcs	kg/100 pcs.	
TKB 6	0.8	2-6	100	2.100	**1481 20 7**
TKB 13	0.8	5-13	100	2.800	**1481 21 5**
TKB 19	0.8	14-19	50	3.200	**1481 23 1**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With flexible strap to fix individual cables or bundles.



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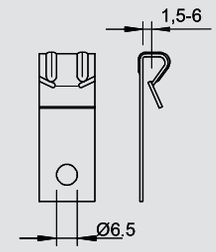
Always indicate the item number when ordering.

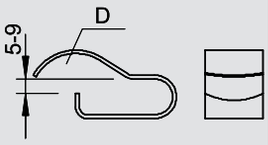


Profile suspensions

Type	Dimension H mm	Dimension L mm	Breaking load kN	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TKL 4	52	10	0.72	1.5-4	100	0.860	**1485 10 5**
TKL 6	54	12	0.72	4-6	100	1.090	**1485 11 3**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Profile suspension with drill hole to accept S hooks.

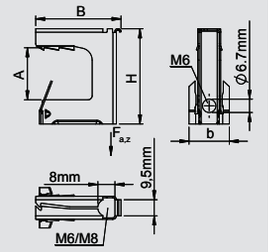


Support clip

Type	Flange thickness mm	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
TC 7-10 ZD	5-7	3-10		100	0.750	**1487 70 1**
TC 9-20 ZD	8-9	7-20		100	0.880	**1487 72 8**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With internal pipe clip.



Beam clamp, multifunctional

Type	Breaking load kN	Dimension B mm	Dimension H mm	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TK MULTI 8	1.2	30	30	2-8	100	—	**1485 14 0**
TK MULTI 16	1.2	32	38	8-16	100	—	**1485 14 4**
TK MULTI 24	1.2	42	48	16-24	50	—	**1485 14 8**

St Steel ZDM Galvanised, MAGNI 565 /100 pc.

Different fastening options are possible,
meaning one clip for any application.

- Multifunctional sprung steel clamp for steel girders
- Unifies the application of multiple products, e.g. S-hooks, wire cable, threaded rod (M6 or M8), cable tie
- For static loads, usable once, immovable
- No welding, no drilling, knocking in or attachment by hand
- Efficient and quick
- For fastening of cables, protection pipes, cable sections, etc.
- High load capacity (tested by CSTB - FR)
- Also suitable for outdoor use
- Material: hardened steel, Magni-coated surface (600-hour corrosion resistance)
- Incl. ICP threaded plate for wood screws of 4.0 to 4.5 mm

Properties:

- Opening for cable tie/strap of up to 9 mm width, M6-M8 threaded rod, wire cable etc.
- 6.7 mm hole diameter for M6 threaded rod, S-hook, acoustic ceiling hook etc.
- ICP clip for fastening with wood screws, diameter 4.0 - 4.5 mm

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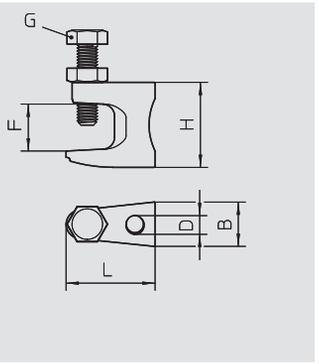
Beam clamps for screwing in

Screw-in beam clamp, with gland hole

Type	Dimension H mm	Dimension B mm	Dimension L mm	Dimension G	Dimension D mm	Breaking load kN	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FL 1 TG	35	19	38	M8	9	1.2	0-18	50	8.500	**1488 01 5**
FL 2 TG	42	21	44	M10	11	2.5	0-20	50	14.000	**1488 02 3**
FL 3 TG	54	23.5	58	M10	13	3.5	0-26	25	18.000	**1488 03 1**

TG Cast iron /100 pc.

With gland hole.

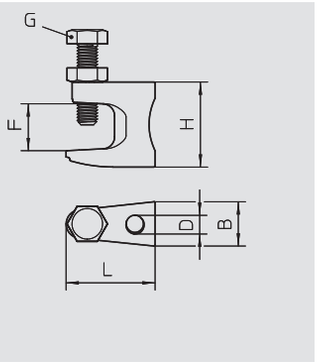


Screw-in beam clamp, with thread

Type	Dimension H mm	Dimension B mm	Dimension L mm	Dimension G	For threaded rod	Breaking load kN	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FL1-G M8 TG	35	19	38	M8	M8	1.2	0-18	50	8.500	**1488 07 4**
FL2-G M10 TG	42	21	44	M10	M10	2.5	0-20	50	14.000	**1488 08 2**
FL3-G M12 TG	54	23.5	58	M10	M12	3.5	0-26	25	18.000	**1488 09 0**

TG Cast iron /100 pc.

With thread.

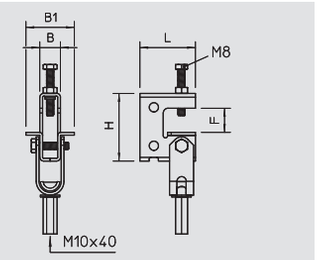


Screw-in beam clamp, with hinge

Type	Flange thickness mm	For threaded rod	Breaking load kN		Pack. pcs	Weight kg/100 pcs.	Item No.
TK FL G	0-24	M10	0.9-2.8		10	34.000	**1488 11 1**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Two-hinge beam clamp for fastening on beams without welding and drilling. The maximum load is dependent on the load direction.

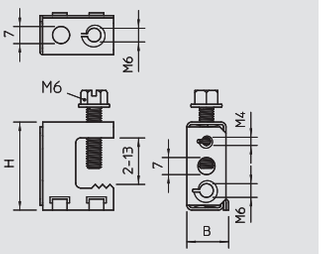


Screw-in beam clamp, universal

Type	Breaking load kN	Dimension B mm	Dimension H mm	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TK 213	1.35	15.8	35	2-13	100	2.720	**1484 70 2**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Various fastening options (horizontal and vertical).

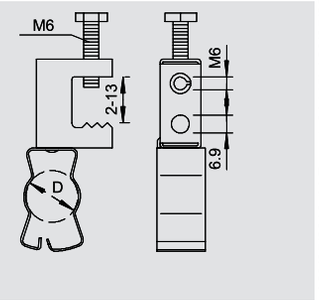


Screw-in beam clamp, for pipes

Type	Clamping range D mm	Breaking load kN	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
TKS 213-25	18-25	0.45	2-13	50	3.990	**1484 81 8**
TKS 213-32	28-32	0.45	2-13	50	4.170	**1484 82 6**
TKS 213-37	35-37	0.45	2-13	50	6.300	**1484 83 4**
TKS 213-42	37-42	0.45	2-13	50	7.300	**1484 84 2**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

With rotating clip to accept pipes and cables, lockable.



Always indicate the item number when ordering.

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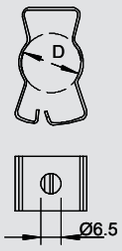

Pipe clamp

Type	Clamping range D mm	Breaking load kN		Pack. pcs	Weight kg/100 pcs.	Item No.
S 25 ZD	18-25	0.45		100	1.420	**1486 30 6**
S 32 ZD	28-32	0.45		100	1.550	**1486 31 4**
S 37 ZD	35-37	0.45		100	2.180	**1486 32 2**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

To accept pipes and cables, lockable.

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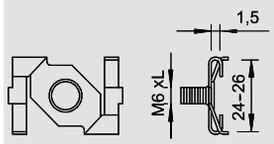
Visible rail terminal

Type	Thread	Breaking load kN		Pack. pcs	Weight kg/100 pcs.	Item No.
TKD 9	M6x9	0.22		100	1.100	**1486 60 8**
TKD 16	M6x16	0.22		100	1.200	**1486 61 6**
TKD 25	M6x25	0.22		100	1.400	**1486 62 4**
TKD 38	M6x38	0.22		100	1.700	**1486 63 2**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Rotary clamp fastening to ceiling profiles with threaded connection.

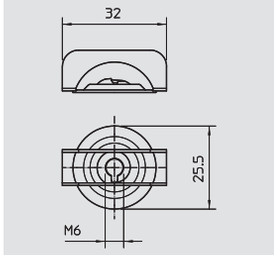


Locknut

Type	Thread	Breaking load kN		Pack. pcs	Weight kg/100 pcs.	Item No.
TKD G	M6	0.22		100	0.540	**1486 67 5**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Disc nut for toolless, manual mounting.

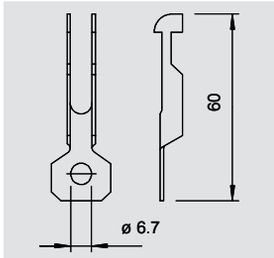


Profile ceiling suspensions

Type	Bore hole Ø mm	Breaking load kN		Pack. pcs	Weight kg/100 pcs.	Item No.
TKT	7	0.45		100	0.900	**1486 86 1**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Push-through fastening for 7 mm drill holes and plate thicknesses of 0.8 to 2 mm, with opening to accept S hooks or bolt and nut.

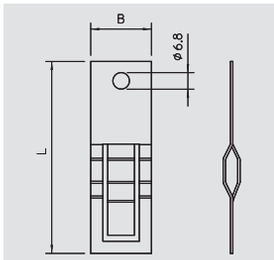


Plug-on bracket for ceiling profiles

Type	Dimension B mm	Dimension L mm	with type		Pack. pcs	Weight kg/100 pcs.	Item No.
TKA	25	79	–		100	1.300	**1486 68 2**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Plug-on bracket for ceiling profiles, with drill hole for universal connection.

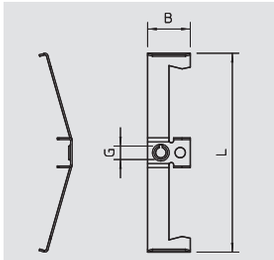


Mounting bracket on threaded rods

Type	For threaded rod	Dimension B mm	Dimension L mm	with type	Dimension G	Breaking load kN		Pack. pcs	Weight kg/100 pcs.	Item No.
TK GS M4 M8	M4 - M8	19	82	–	M6	0.22		100	0.890	**1486 69 4**
TK GS M10 M12	M10 - M12	26	120	–	M6	0.22		100	1.810	**1486 69 8**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Sprung steel clamp for quick fastening to threaded rods or beams without welding or drilling.

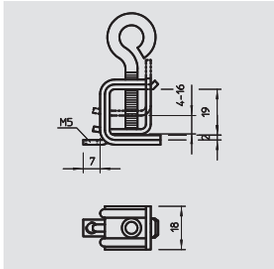


Beam clamp

Type	Flange thickness mm	Shipping box pair		Pack. pair	Weight kg/100 pairs	Item No.
339 1	4-16	100		5	6.200	**1408 51 8**

St Steel /100 pairs

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 protective caps.



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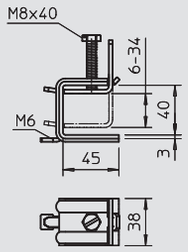
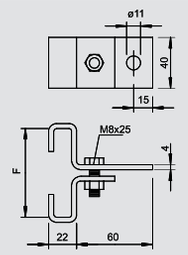


Beam clamp

Type	Flange thickness mm	Shipping box pair		Pack. pair	Weight kg/100 pairs	Item No.
339 2	6-34	40		5	37.000	**1408 53 4**

St Steel /100 pairs

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 protective caps.

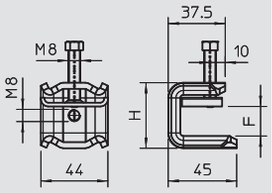


Support clamp

Type	Flange thickness mm	Breaking load kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
325 70 FT	70	10	25		25	27.900	**5327 07 5**
325 80 FT	80	10	25		25	32.000	**5327 08 3**
325 100 FT	100	9	25		25	33.500	**5327 10 5**
325 130 FT	130	8	25		25	36.500	**5327 12 1**

St Steel FT Hot-dip galvanised /100 pc.

The two brackets are clamped to the flange.
For individual component suspension.

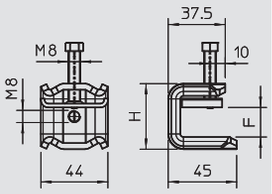


Beam clamp

Type	Dimension H mm	Dimension B mm	Dimension L mm	For threaded rod	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SPP 6-21 FT	43	44	45	M8	6-21	50	17.700	**1486 25 0**

St Steel FT Hot-dip galvanised /100 pc.

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 and is tightened using the appropriate tool. If necessary, the double nipple, type 3100 M8, or an M8 threaded rod can be used on the clip element.

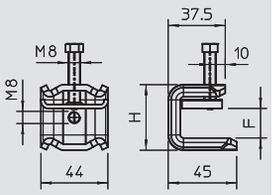


Beam clamp, V2A

Type	Dimension H mm	Dimension B mm	Dimension L mm	For threaded rod	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SPP 6-21 VA	43	44	45	M8	6-21	50	18.200	**1486 25 4**

V2A Stainless steel, grade 304 /100 pc.

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 and is tightened using the appropriate tool. If necessary, the double nipple, type 3100 M8, or an M8 threaded rod can be used on the clip element.

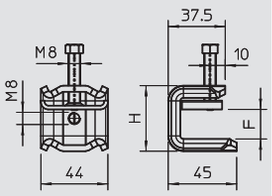


Beam clamp, V4A

Type	Dimension H mm	Dimension B mm	Dimension L mm	For threaded rod	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SPP 6-21 V4A	43	44	45	M8	6-21	50	18.200	**1486 25 8**

V4A Stainless steel, grade 316 L /100 pc.

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 and is tightened using the appropriate tool. If necessary, the double nipple, type 3100 M8, or an M8 threaded rod can be used on the clip element.



Beam clamp

Type	Dimension H mm	Dimension B mm	Dimension L mm	For threaded rod	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SPP 20-40 FT	63	44	45	M8	20-40	50	20.500	**1486 27 0**

St Steel FT Hot-dip galvanised /100 pc.

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 and is tightened using the appropriate tool. If necessary, the double nipple, type 3100 M8, or an M8 threaded rod can be used on the clip element.

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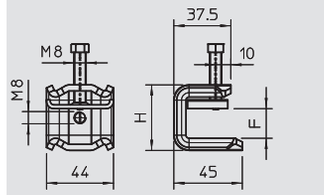
Beam clamp, V2A

Type	Dimension H mm	Dimension B mm	Dimension L mm	For threaded rod	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SPP 20-40 VA	63	44	45	M8	20-40	50	21.200	**1486 27 4**

V2A Stainless steel, grade 304 /100 pc.

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 and is tightened using the appropriate tool. If necessary, the double nipple, type 3100 M8, or an M8 threaded rod can be used on the clip element.

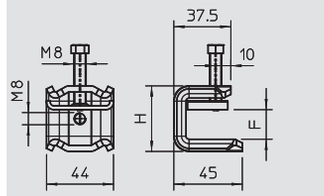


Beam clamp, V4A

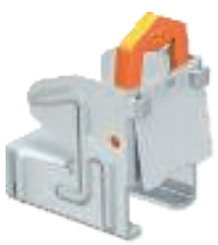
Type	Dimension H mm	Dimension B mm	Dimension L mm	For threaded rod	Flange thickness mm	Pack. pcs	Weight kg/100 pcs.	Item No.
SPP 20-40 V4A	63	44	45	M8	20-40	50	21.200	**1486 27 8**

V4A Stainless steel, grade 316 L /100 pc.

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 and is tightened using the appropriate tool. If necessary, the double nipple, type 3100 M8, or an M8 threaded rod can be used on the clip element.



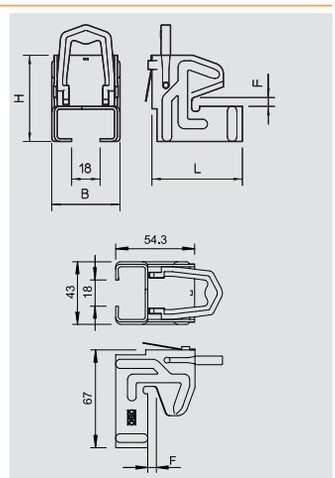
Beam clamp, profile 1268



Type	Flange thickness mm	Dimension L mm	Dimension B mm	Dimension H mm		Pack. pcs	Weight kg/100 pcs.	Item No.
328 1	5-11	57	39.5	54.3		50	10.800	**1408 01 1**
328 2	10-19	67	39.5	54.3		50	12.500	**1408 04 6**

St Steel ZD Galvanised, Deltatone 500 /100 pc.

Screwless rustproof coated beam clamp, with blocking spring, suitable for profile rail, type 1268 SL and 1268 S/SL. 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 protective caps.



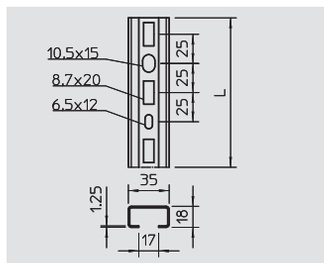
Profile rail, 1.25 mm material thickness

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
1268 L 150 FS	Perforated	35 x 18	1.25	150		25	10.600	**1104 24 1**
1268 L 200 FS	Perforated	35 x 18	1.25	200		25	14.200	**1104 26 8**
1268 L 300 FS	Perforated	35 x 18	1.25	300		25	21.300	**1104 28 4**
1268 L 400 FS	Perforated	35 x 18	1.25	400		10	28.400	**1104 29 2**
1268 L 500 FS	Perforated	35 x 18	1.25	500		10	35.500	**1104 30 6**
1268 L 600 FS	Perforated	35 x 18	1.25	600		10	42.600	**1104 31 0**
1268 L 700 FS	Perforated	35 x 18	1.25	700		10	49.700	**1104 31 5**
1268 L 800 FS	Perforated	35 x 18	1.25	800		10	56.800	**1104 32 0**
1268 L 900 FS	Perforated	35 x 18	1.25	900		10	63.900	**1104 32 5**
1268 L 1M FS	Perforated	35 x 18	1.25	1000		10	71.000	**1104 49 7**
1268 L 2M FS	Perforated	35 x 18	1.25	2000		20	71.000	**1104 50 0**

St Steel FS Strip-galvanised /100 m /100 pc.

Light-duty profile rail, perforated, slot width 17 mm.

Static values:
A = 0,876 cm²
Iy = 0,406 cm⁴
Iz = 1,807 cm⁴
Wy = 0,413 cm³
Wz = 1,033 cm³



Always indicate the item number when ordering.

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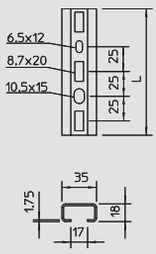


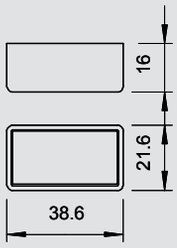
Profile rail, 1.75 mm material thickness

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
1268 SL 150 FS	Perforated	35 x 18	1.75	150		25	15.000	**1104 34 9**
1268 SL 200 FS	Perforated	35 x 18	1.75	200		25	20.000	**1104 35 7**
1268 SL 300 FS	Perforated	35 x 18	1.75	300		25	30.000	**1104 37 3**
1268 SL 400 FS	Perforated	35 x 18	1.75	400		10	40.000	**1104 39 1**
1268 SL 500 FS	Perforated	35 x 18	1.75	500		10	50.000	**1104 40 3**
1268 SL 600 FS	Perforated	35 x 18	1.75	600		10	60.000	**1104 41 1**
1268 SL 800 FS	Perforated	35 x 18	1.75	800		10	80.000	**1104 42 7**
1268 SL 900 FS	Perforated	35 x 18	1.75	900		10	90.000	**1104 43 5**
1268 SL 1M FS	Perforated	35 x 18	1.75	1000		10	100.000	**1104 44 5**
1268 SL 2M FS	Perforated	35 x 18	1.75	2000		20	100.000	**1104 45 4**

St Steel FS Strip-galvanised /100 m /100 pc.

Profile rail, perforated, slot width 17 mm.

Static values:
A = 1,172 cm²
Iy = 0,515 cm⁴
Iz = 0,526 cm⁴
Wy = 2,333 cm³
Wz = 1,333 cm³



Protective cap

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1268 SK OR	Pastel orange	800		50	0.420	**1124 50 2**

PE Polyethylene /100 pc.

End cap for profile rail types 1268; 1268 S; 2063 and 2068.

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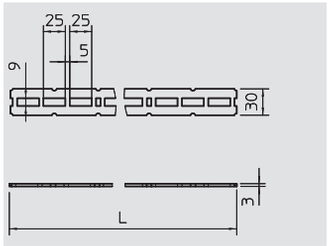
Self-build profile

Type	Length mm		Weight kg/100 m	Item No.
1268 SP 3M FT	3000		55.000	**6350 20 8**

St Steel FT Hot-dip galvanised /m

Flat iron with slots for individual mounting.

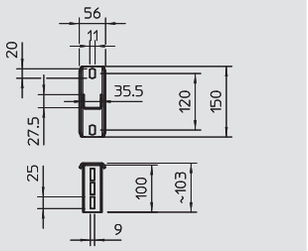


Head plate

Type		Pack. pcs	Weight kg/100 pcs.	Item No.
1268 KP FT		25	42.000	**6350 05 4**

St Steel FT Hot-dip galvanised /pc.

For wall and ceiling fastening of individual mountings.

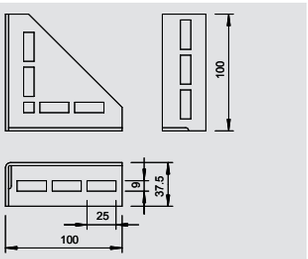


Triangular node

Type		Weight kg/100 pcs.	Item No.
1268 KD FT		22.000	**6350 10 0**

St Steel FT Hot-dip galvanised /pc.

For stable corner fastening of individual mountings.

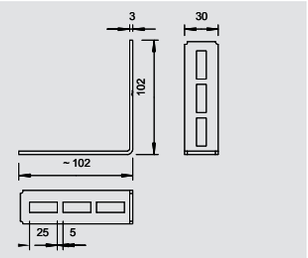


90° mounting bracket

Type		Pack. pcs	Weight kg/100 pcs.	Item No.
1268 W 90 G		25	11.000	**6350 15 1**

St Steel G Electrogalvanised /pc.

For stable 90° angle fastening of individual mountings.

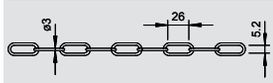


Suspension chain

Type	Breaking load kN	Shipping box m		Pack. m	Weight kg/100 m	Item No.
K-C30 G	0.7	25		25	10.000	**1488 20 1**

St Steel G Electrogalvanised /100 m

To suspend luminaire supports or other components.

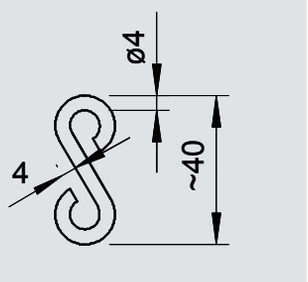


S hook

Type	Breaking load kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
SH 40 G	0.5	1200		100	0.800	**1488 25 2**

St Steel G Electrogalvanised /100 pc.

Connecting hook of beam clamps and suspension chains.



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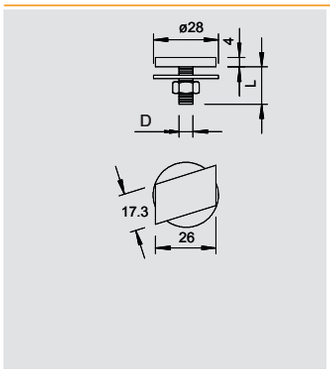
Always indicate the item number when ordering.

Hammer-head bolt

16-17



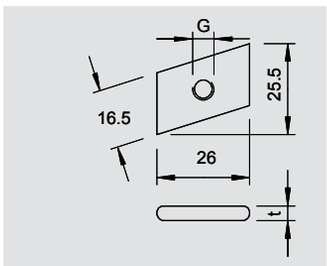
Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5026 M6X20 G	M6	20	6	28	–	300	50	2.870	**1151 70 3**
5026 M8X25 G	M8	25	8	28	–	300	50	3.320	**1151 71 1**

St Steel G Electrogalvanised /100 pc.

Hammer-head bolt with washer and nut for profile rails with slot width 16–17 mm.

Slide nut

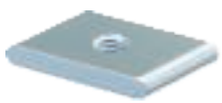
16-17



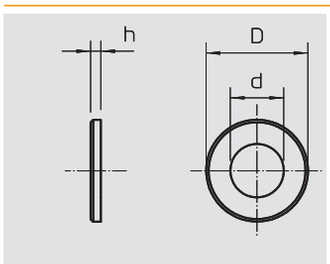
Type	Thread	Dimension G mm	Dimension t mm	Version	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5019 M6 OS G	M6	6	4	No bolt	1200	100	1.150	**1144 10 3**
5019 M8 OS G	M8	8	5	No bolt	600	100	1.450	**1144 11 1**
5019 M10 OS G	M10	10	6	No bolt	600	100	1.650	**1144 13 8**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 16–17 mm.



Washer, large diameter

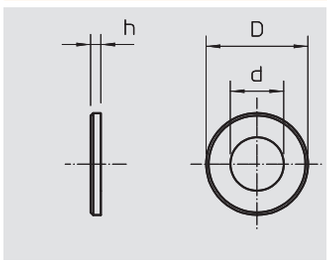


Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
967 M6 G	M6	6.5	28	2.5	1000	100	1.150	**3402 20 7**
967 M8 G	M8	8.5	28	2.5	1400	100	1.100	**3402 21 5**
967 M10 G	M10	11	28	2.5	1400	100	1.020	**3402 22 3**

St Steel G Electrogalvanised /100 pc.

Washer of large outer diameter for universal use.

Washer, DIN 125 Shape A

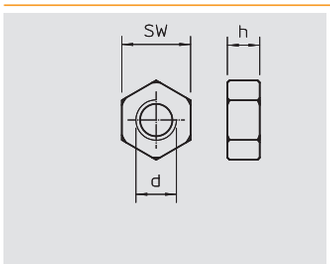


Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 G	M6	6.4	12	1.6	12000	100	0.110	**3402 06 1**
966 M8 G	M8	8.4	16	1.6	5000	100	0.210	**3402 08 8**
966 M10 G	M10	10.5	20	2	3000	100	0.410	**3402 09 6**

St Steel G Electrogalvanised /100 pc.

Washer according to DIN 125, shape A, for universal use.

Hexagonal nut



Type	Thread	SW mm	Dimension h mm	Dimension d mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M6 G	M6	10	5.2	6	2600	100	0.230	**3400 06 9**
DIN 934 M8 G	M8	13	6.8	8	2400	100	0.470	**3400 08 5**
DIN 934 M10 G	M10	17	8.4	10	1000	100	1.080	**3400 10 7**

St Steel G Electrogalvanised /100 pc.

Hexagonal nut to DIN 934 with metric thread.

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Rail systems

	Profile rails	Slot width 7.5 mm	352
		Slot width 11 mm	352
		Slot width 12 mm	353
		Slot width 16 mm	354
		Slot width 16.5 mm	355
		Slot width 17 mm	356
		Slot width 18 mm	357
		Slot width 22 mm	358
	Mounting rail	Mounting rail, MS 21 Mounting rail, MS 41 Mounting rail, MS 41	360 363
	System accessories	Slide nuts	369
		Hammer-head bolts	372
		Hook-head bolts	373
		Series clip	375
	Mounting systems	Connection plates Fastening clip Mounting bracket	377 378 379
	Hat profile rail	Hat profile rail Support rail	389 390

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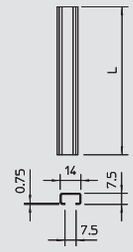
Profile rail, slot 7.5 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2059 2M FS	Unperforated	14 x 7,5	0.75	2000	50	18.050	**1103 12 1**

St Steel FS Strip-galvanised /100 m

Profile rail with 7.5 mm slot width.

Static values:
A = 0,23 cm²
Iy = 0,0169 cm⁴
Iz = 0,0646 cm⁴
Wy = 0,0361 cm³
Wz = 0,0908 cm³



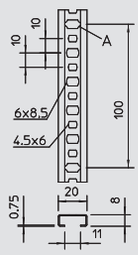
Profile rail, slot 11 mm, dividable

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2060 2M AB BK	Perforated	20 x 8	0.75	2000	50	20.000	**1106 02 3**
2060 2M AB FS	Perforated	20 x 8	0.75	2000	20	21.100	**1106 12 0**

St Steel FS Strip-galvanised Bright /100 m

Profile rail with 11 mm slot width.

Static values:
A = 0.2400 cm²
Iy = 0.0218 cm⁴
Iz = 0.1673 cm⁴
Wy = 0.0510 cm³
Wz = 0.1673 cm³



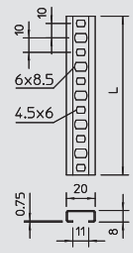
Profile rail, slot 11 mm, perforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2060 L 2M FS	Perforated	20 x 8	0.75	2000	50	20.000	**1106 62 7**

St Steel FS Strip-galvanised /100 m

Profile rail with 11 mm slot width.

Static values:
A = 0,24 cm²
Iy = 0,0218 cm⁴
Iz = 0,1673 cm⁴
Wy = 0,051 cm³
Wz = 0,1673 cm³



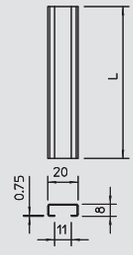
Profile rail, slot 11 mm, unperforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2060 2M FS	Unperforated	20 x 8	0.75	2000	50	20.000	**1105 12 4**

St Steel FS Strip-galvanised /100 m

Profile rail with 11 mm slot width.

Static values:
A = 0,303 cm²
Iy = 0,0275 cm⁴
Iz = 0,1711 cm⁴
Wy = 0,028 cm³
Wz = 0,1711 cm³



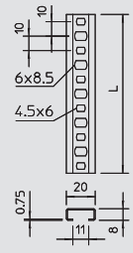
Profile rail, slot 11 mm, V2A, perforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2060 L 2M VA	Perforated	20 x 8	0.75	2000	20	21.400	**1106 62 8**

V2A Stainless steel, grade 304 Bright /100 m

Profile rail with 11 mm slot width.

Static values:
A = 0,24 cm²
Iy = 0,0218 cm⁴
Iz = 0,1673 cm⁴
Wy = 0,051 cm³
Wz = 0,1673 cm³



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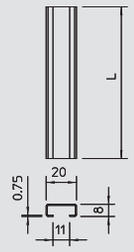


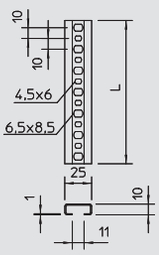
Profile rail, slot 11 mm, V2A, unperforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2060 2M VA	Unperforated	20 x 8	0.75	2000	20		23.550	**1105 12 5**

V2A Stainless steel, grade 304 Bright /100 m

Profile rail with 11 mm slot width.

Static values:
A = 0,303 cm²
Iy = 0,0275 cm⁴
Iz = 0,1711 cm⁴
Wy = 0,028 cm³
Wz = 0,1711 cm³



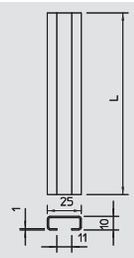
Profile rail, slot 11 mm, perforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2061 L 2M FS	Perforated	25 x 10	1	2000	50		36.800	**1108 12 3**

St Steel FS Strip-galvanised /100 m

Profile rail with 11 mm slot width.

Static values:
A = 0,439 cm²
Iy = 0,0643 cm⁴
Iz = 0,4357 cm⁴
Wy = 0,1223 cm³
Wz = 0,3485 cm³



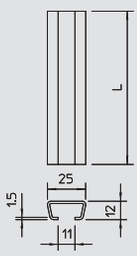
Profile rail, slot 11 mm, unperforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2061 2M FS	Unperforated	25 x 10	1	2000	50		36.000	**1107 12 7**

St Steel FS Strip-galvanised /100 m

Profile rail with 11 mm slot width.

Static values:
A = 0,524 cm²
Iy = 0,0772 cm⁴
Iz = 0,4408 cm⁴
Wy = 0,1299 cm³
Wz = 0,3526 cm³



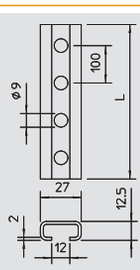
Profile rail, slot 11 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2066 2M F	Unperforated	25 x 12	1.5	2000	20		65.000	**1117 02 5**
2066 2M FS	Unperforated	25 x 12	1.5	2000	20		58.300	**1117 03 3**
2066 2M VA	Unperforated	25 x 12	1.5	2000	20		58.300	**1117 06 8**

St Steel V2A Stainless steel, grade 304 FS Strip-galvanised F Hot-dip galvanised /100 m

Profile rail, unperforated, slot width 11 mm.

Static values:
A = cm²
Iy = 0,1389 cm⁴
Iz = 0,5908 cm⁴
Wy = 0,1867 cm³
Wz = 0,4726 cm³



Profile rail, slot 12 mm, perforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2062 L 2M FT	Perforated	27 x 12,5	2	2000	20		89.500	**1109 52 9**

St Steel FT Hot-dip galvanised /100 m

Profile rail with 12 mm slot width.

Static values:
A = 0,887 cm²
Iy = 0,1659 cm⁴
Iz = 0,9683 cm⁴
Wy = 0,2534 cm³
Wz = 0,7173 cm³

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Always indicate the item number when ordering.

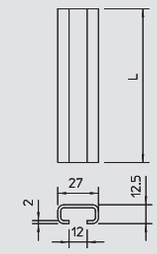
Profile rail, slot 12 mm, unperforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2062 2M FT	Unperforated	27 x 12,5	2	2000	20	90.000	**1109 02 2**
2062 2M BK	Unperforated	27 x 12,5	–	2000	20	90.000	**1109 01 4**

St Steel Bright FT Hot-dip galvanised /100 m

Profile rail with 12 mm slot width.

Static values:
A = 1,077 cm²
Iy = 0,2048 cm⁴
Iz = 0,9826 cm⁴
Wy = 0,2761 cm³
Wz = 0,7278 cm³



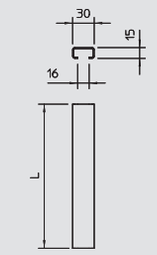
Profile rail, slot 16 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
C30 2M FS	Unperforated	30 x 15	1.5	2000	20	74.200	**1110 00 4**

St Steel FS Strip-galvanised /100 m

Profile rail with 16 mm slot width.

Static values:
A = 0,9621 cm²
Iy = 0,2878 cm⁴
Iz = 1,2301 cm⁴
Wy = 0,3138 cm³
Wz = 0,8201 cm³



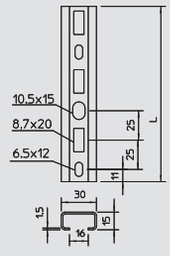
Profile rail, slot 16 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
C30 L 2M FS	Perforated	30 x 15	1.5	2000	20	70.200	**1110 00 2**

St Steel FS Strip-galvanised /100 m

Profile rail, perforated, slot width 16 mm.

Static values:
A = 0,804 cm²
Iy = 0,2392 cm⁴
Iz = 1,2156 cm⁴
Wy = 0,2919 cm³
Wz = 0,8104 cm³



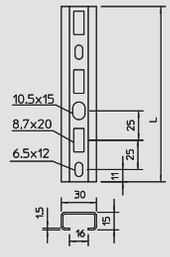
Profile rail, slot 16 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
C30 L 200 FT	Perforated	30 x 15	1.5	200	25	14.040	**1109 78 2**
C30 L 300 FT	Perforated	30 x 15	1.5	300	25	21.060	**1109 79 0**
C30 L 400 FT	Perforated	30 x 15	1.5	400	10	28.080	**1109 80 4**
C30 L 500 FT	Perforated	30 x 15	1.5	500	10	35.100	**1109 81 2**
C30 L 600 FT	Perforated	30 x 15	1.5	600	10	42.120	**1109 82 0**
C30 L 700 FT	Perforated	30 x 15	1.5	700	10	49.140	**1109 83 9**
C30 L 800 FT	Perforated	30 x 15	1.5	800	10	56.160	**1109 84 7**

St Steel FT Hot-dip galvanised /100 pc.

Profile rail, perforated, slot width 16 mm.

Static values:
A = 0,804 cm²
Iy = 0,2392 cm⁴
Iz = 1,2156 cm⁴
Wy = 0,2919 cm³
Wz = 0,8104 cm³



Always indicate the item number when ordering.

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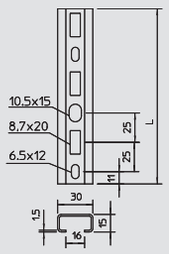


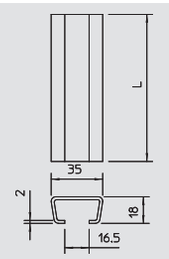
Profile rail, slot 16 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
C30 L 1M FT	Perforated	30 x 15	1.5	1000		10	70.200	**1109 86 3**
C30 L 2M FT	Perforated	30 x 15	1.5	2000		20	70.200	**1109 87 1**

St Steel FT Hot-dip galvanised /100 m

Profile rail, perforated, slot width 16 mm.

Static values:
A = 0,804 cm²
Iy = 0,2392 cm⁴
Iz = 1,2156 cm⁴
Wy = 0,2919 cm³
Wz = 0,8104 cm³



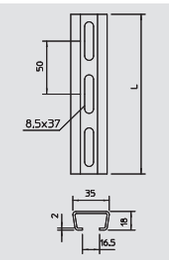
Profile rail, slot 16.5 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2063 2M BK	Unperforated	35 x 18	2	2000	20		116.000	**1112 02 3**
2063 2M FS	Unperforated	35 x 18	2	2000	20		116.000	**1112 12 0**
2063 2M FT	Unperforated	35 x 18	2	2000	20		121.350	**1112 22 8**

St Steel FS Strip-galvanised Bright FT Hot-dip galvanised /100 m

Profile rail, unperforated, slot width 16.5 mm.

Static values:
A = 1,48 cm²
Iy = 0,6036 cm⁴
Iz = 2,3252 cm⁴
Wy = 0,54 cm³
Wz = 1,328 cm³



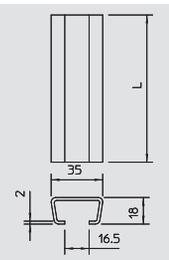
Profile rail, slot 16.5 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2063 L 2M FS	Perforated	35 x 18	2	2000	20		108.000	**1112 70 8**
2063 L 2M FT	Perforated	35 x 18	2	2000	20		110.000	**1112 75 9**

St Steel FS Strip-galvanised FT Hot-dip galvanised /100 m

Profile rail, perforated, slot width 16.5 mm.

Static values:
A = 1,31 cm²
Iy = 0,5377 cm⁴
Iz = 2,3149 cm⁴
Wy = 0,516 cm³
Wz = 1,322 cm³



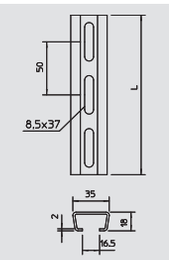
Profile rail, slot 16.5 mm, V2A, unperforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2063 2M VA	Unperforated	35 x 18	2	2000	20		116.000	**1110 00 5**

V2A Stainless steel, grade 304 Bright /100 m

Profile rail with 16.5 mm slot width.

Static values:
A = 1,48 cm²
Iy = 0,6036 cm⁴
Iz = 2,3252 cm⁴
Wy = 0,54 cm³
Wz = 1,328 cm³



Profile rail, slot 16.5 mm, V2A, perforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2063 L 2M VA	Perforated	35 x 18	2	2000	20		108.000	**1112 70 9**

V2A Stainless steel, grade 304 Bright /100 m

Profile rail with 16.5 mm slot width.

Static values:
A = 1,31 cm²
Iy = 0,5377 cm⁴
Iz = 2,3149 cm⁴
Wy = 0,516 cm³
Wz = 1,322 cm³

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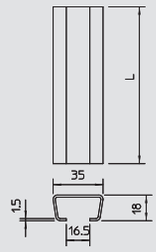
Profile rail, slot 16.5 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2068 2M BK	Unperforated	35 x 18	1.5	2000	20		90.000	**1118 02 1**
2068 2M FT	Unperforated	35 x 18	1.5	2000	20		89.400	**1118 12 9**
2068 2M FS	Unperforated	35 x 18	1.5	2000	20		90.000	**1118 22 6**

St Steel FS Strip-galvanised Bright FT Hot-dip galvanised /100 m

Profile rail, unperforated, slot width 16.5 mm.

Static values:
A = 1,14 cm²
Iy = 0,4945 cm⁴
Iz = 0,8461 cm⁴
Wy = 0,441 cm³
Wz = 1,0549 cm³



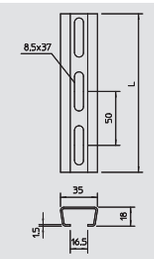
Profile rail, slot 16.5 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Pack. m	Weight kg/100 m	Item No.
2068 L 2M FS	Perforated	35 x 18	1.5	2000	–	20	82.500	**1119 64 8**
2068 L 200 FT	Perforated	35 x 18	1.5	200	–	25	17.800	**1119 69 6**
2068 L 300 FT	Perforated	35 x 18	1.5	300	–	25	26.700	**1119 69 3**
2068 L 400 FT	Perforated	35 x 18	1.5	400	–	10	35.600	**1119 69 0**
2068 L 500 FT	Perforated	35 x 18	1.5	500	–	10	44.500	**1119 68 7**
2068 L 600 FT	Perforated	35 x 18	1.5	600	–	10	53.400	**1119 68 4**
2068 L 700 FT	Perforated	35 x 18	1.5	700	–	10	62.300	**1119 68 1**
2068 L 800 FT	Perforated	35 x 18	1.5	800	–	10	71.200	**1119 67 8**
2068 L 1M FT	Perforated	35 x 18	1.5	1000	–	10	89.000	**1119 67 2**
2068 L 2M FT	Perforated	35 x 18	1.5	2000	–	20	89.000	**1119 65 6**
2068 L 2M FTSO	Perforated	35 x 18	1.5	2000	10		80.000	**1119 67 0**

St Steel FS Strip-galvanised FT Hot-dip galvanised FT Hot-dip galvanised/SOMY /100 m /100 pc.

Profile rail, perforated, slot width 16.5 mm.

Static values:
A = 1,01 cm²
Iy = 0,4418 cm⁴
Iz = 1,8384 cm⁴
Wy = 0,423 cm³
Wz = 1,0505 cm³



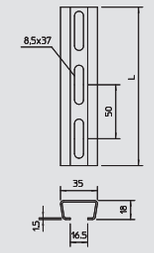
Profile rail, slot 16.5 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Item No.
2068 L 2M VA	Perforated	35 x 18	1.5	2000	20	**1119 70 2**
2068 L 6M VA	Perforated	35 x 18	1.5	6000	60	**1119 72 9**

V2A Stainless steel, grade 304 /100 m

Profile rail, perforated, slot width 16.5 mm.

Static values:
A = 1,01 cm²
Iy = 0,4418 cm⁴
Iz = 1,8384 cm⁴
Wy = 0,423 cm³
Wz = 1,0505 cm³



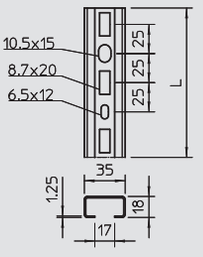
Profile rail, slot 17 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
1268 L 150 FS	Perforated	35 x 18	1.25	150		25	10.600	**1104 24 1**
1268 L 200 FS	Perforated	35 x 18	1.25	200		25	14.200	**1104 26 8**
1268 L 300 FS	Perforated	35 x 18	1.25	300		25	21.300	**1104 28 4**
1268 L 400 FS	Perforated	35 x 18	1.25	400		10	28.400	**1104 29 2**
1268 L 500 FS	Perforated	35 x 18	1.25	500		10	35.500	**1104 30 6**
1268 L 600 FS	Perforated	35 x 18	1.25	600		10	42.600	**1104 31 0**
1268 L 700 FS	Perforated	35 x 18	1.25	700		10	49.700	**1104 31 5**
1268 L 800 FS	Perforated	35 x 18	1.25	800		10	56.800	**1104 32 0**
1268 L 900 FS	Perforated	35 x 18	1.25	900		10	63.900	**1104 32 5**
1268 L 1M FS	Perforated	35 x 18	1.25	1000		10	71.000	**1104 49 7**
1268 L 2M FS	Perforated	35 x 18	1.25	2000		20	71.000	**1104 50 0**

St Steel FS Strip-galvanised /100 m /100 pc.

Light-duty profile rail, perforated, slot width 17 mm.

Static values:
A = 0,876 cm²
Iy = 0,406 cm⁴
Iz = 1,807 cm⁴
Wy = 0,413 cm³
Wz = 1,033 cm³



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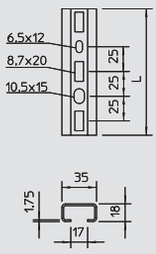
Always indicate the item number when ordering.



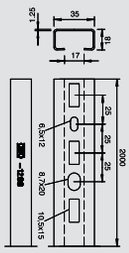
Profile rail, slot 17 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
1268 SL 150 FS	Perforated	35 x 18	1.75	150	25	15.000	**1104 34 9**
1268 SL 200 FS	Perforated	35 x 18	1.75	200	25	20.000	**1104 35 7**
1268 SL 300 FS	Perforated	35 x 18	1.75	300	25	30.000	**1104 37 3**
1268 SL 400 FS	Perforated	35 x 18	1.75	400	10	40.000	**1104 39 1**
1268 SL 500 FS	Perforated	35 x 18	1.75	500	10	50.000	**1104 40 3**
1268 SL 600 FS	Perforated	35 x 18	1.75	600	10	60.000	**1104 41 1**
1268 SL 800 FS	Perforated	35 x 18	1.75	800	10	80.000	**1104 42 7**
1268 SL 900 FS	Perforated	35 x 18	1.75	900	10	90.000	**1104 43 5**
1268 SL 1M FS	Perforated	35 x 18	1.75	1000	10	100.000	**1104 44 5**
1268 SL 2M FS	Perforated	35 x 18	1.75	2000	20	100.000	**1104 45 4**

St Steel FS Strip-galvanised /100 m /100 pc.

Profile rail, perforated, slot width 17 mm.

Static values:
A = 1,172 cm²
Iy = 0,515 cm⁴
Iz = 0,526 cm⁴
Wy = 2,333 cm³
Wz = 1,333 cm³



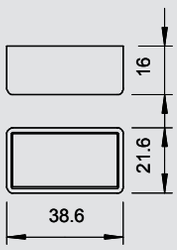
Profile rail, slot 17 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
1268 L 1M VA	Perforated	35 x 18	1.25	1000	10	71.000	**1104 49 8**
1268 L 2M VA	Perforated	35 x 18	1.25	2000	20	71.000	**1104 50 1**

V2A Stainless steel, grade 304 /100 m

Light-duty profile rail, perforated, slot width 17 mm.

Static values:
A = 0,876 cm²
Iy = 0,406 cm⁴
Iz = 0,413 cm⁴
Wy = 1,807 cm³
Wz = 1,033 cm³

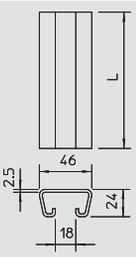


Protective cap, 1268

Type	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
1268 SK OR	Pastel orange	800	50	0.420	**1124 50 2**

PE Polyethylene /100 pc.

End cap for profile rail types 1268; 1268 S; 2063 and 2068.



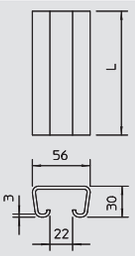
Profile rail, slot 18 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
2100 FT	Unperforated	46 x 24	2.5	2000	10	220.000	**1120 20 4**

St Steel FT Hot-dip galvanised /100 m

Heavyweight profile rail, unperforated, slot width 18 mm.

Static values:
A = 2,68 cm²
Iy = 2,009 cm⁴
Iz = 6,7648 cm⁴
Wy = 1,437 cm³
Wz = 2,941 cm³



Profile rail, slot 18 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2110 FT	unperforated	56 x 30	3	2000	10	300.000	**1121 22 7**

St Steel FT Hot-dip galvanised /100 m

Heavy-duty rail, unperforated, slot width 22 mm.

Static values:
A = 3,8754 cm²
Iy = 4,5617 cm⁴
Iz = 15,1591 cm⁴
Wy = 2,5764 cm³
Wz = 5,413 cm³

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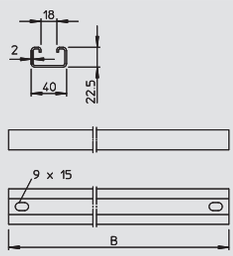
Profile rail, slot 18 mm

Type	Version	Inter-face	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 4 SPR 492 FT	–	FT	40 x 22,5	2	–		10	81.500	**6007 24 4**
CPS 4 SPR 592 FT	–	FT	40 x 22,5	2	592		10	96.000	**6007 25 2**
CPS 4 SPR 692 FT	–	FT	40 x 22,5	2	692		10	113.000	**6007 26 0**
CPS 4 SPR 792 FT	–	FT	40 x 22,5	2	792		10	130.000	**6007 27 9**
CPS 4 SPR 892 FT	–	FT	40 x 22,5	2	892		10	145.000	**6007 28 7**
CPS 4 SPR 992 FT	–	FT	40 x 22,5	2	992		10	162.000	**6007 29 5**
CPS 4 SPR1092 FT	–	FT	40 x 22,5	2	1092		10	178.000	**6007 30 9**
CPS 4 SPR1192 FT	–	FT	40 x 22,5	2	1192		10	194.000	**6007 31 7**

St Steel FT Hot-dip galvanised /pc.

CPS 4 rung for use in heavy-duty vertical ladders.



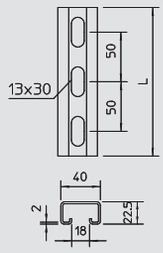
Profile rail, slot 18 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
CPS 4L 2M FT	perforated	40 x 22,5	2	2000		10	160.000	**1121 97 9**
CPS 4L 6M FT	perforated	40 x 22,5	2	6000		1	160.000	**1121 89 8**

St Steel FT Hot-dip galvanised /100 m

Heavy-duty profile rail, perforated, slot width 18 mm.

Static values:
A = 1,7398 cm²
Iy = 1,1835 cm⁴
Iz = 4,4539 cm⁴
Wy = 1,0462 cm³
Wz = 2,2276 cm³



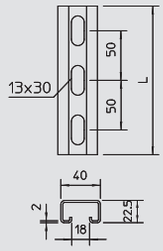
Profile rail, slot 18 mm, V2A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
CPS 4L 2M VA	Perforated	40 x 22,5	2	2000		10	152.500	**1121 96 0**
CPS 4L 6M VA	Perforated	40 x 22,5	2	6000		1	152.500	**1121 90 1**

V2A Stainless steel, grade 304 /100 m

Heavy-duty profile rail, perforated, slot width 18 mm.

Static values:
A = 1,7398 cm²
Iy = 1,1835 cm⁴
Iz = 4,4539 cm⁴
Wy = 1,0462 cm³
Wz = 2,2276 cm³

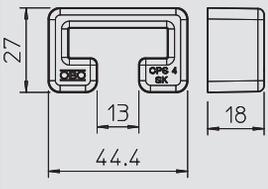


Protective cap, CPS 4

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 4 SK OR SP	Pastel orange	300		25	0.680	**1124 55 5**

PE Polyethylene /100 pc.

End cap for profile rail, types CPS 4 and MS 22.



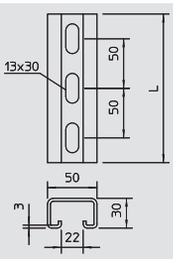
Profile rail, slot 22 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 5 L 200 FT	Perforated	50 x 30	3	200		1	57.000	**1121 39 1**
CPS 5 L 300 FT	Perforated	50 x 30	3	300		5	85.000	**1121 24 3**
CPS 5 L 400 FT	Perforated	50 x 30	3	400		1	113.000	**1121 27 8**
CPS 5 L 500 FT	Perforated	50 x 30	3	500		1	141.000	**1121 40 5**
CPS 5 L 600 FT	Perforated	50 x 30	3	600		1	170.000	**1121 29 4**
CPS 5 L 700 FT	Perforated	50 x 30	3	700		5	198.000	**1121 33 2**
CPS 5 L 800 FT	Perforated	50 x 30	3	800		5	235.000	**1121 30 8**
CPS 5 L 900 FT	Perforated	50 x 30	3	900		1	255.000	**1121 33 6**
CPS 5 L 1.5M FT	Perforated	50 x 30	3	1500		1	440.000	**1121 36 3**

St Steel FT Hot-dip galvanised /pc.

Heavy-duty profile rail with continuous perforation, slot width 22 mm.

Static values:
A = 3,3854 cm²
Iy = 3,9943 cm⁴
Iz = 13,1098 cm⁴
Wy = 3,9512 cm³
Wz = 6,3751 cm³



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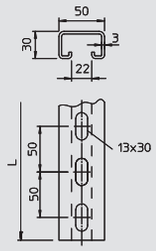
Always indicate the item number when ordering.



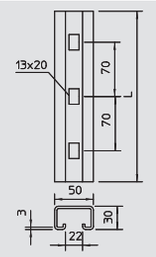
Profile rail, slot 22 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
CPS 5 L 1M FT	Perforated	50 x 30	3	1000		1	282.500	**1121 44 8**
CPS 5 L 2M FT	Perforated	50 x 30	3	2000		2	282.500	**1121 46 4**
CPS 5 L 3M FT	Perforated	50 x 30	3	3000		1	282.500	**1121 46 6**
CPS 5 L 6M FT	Perforated	50 x 30	3	6000		6	282.500	**1121 47 2**

St Steel FT Hot-dip galvanised /100 m

Heavy-duty profile rail with continuous perforation, slot width 22 mm.

Static values:
A = 3,3854 cm²
Iy = 3,9943 cm⁴
Iz = 13,1098 cm⁴
Wy = 3,9512 cm³
Wz = 6,3751 cm³



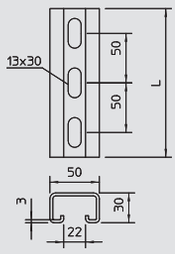
Profile rail, slot 22 mm

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 5 G 220 FT	Perforated	50 x 30	3	220		1	69.000	**6349 40 4**
CPS 5 G 260 FT	Perforated	50 x 30	3	260		1	81.500	**6349 41 2**
CPS 5 G 300 FT	Perforated	50 x 30	3	300		10	94.000	**6349 43 9**
CPS 5 G 340 FT	Perforated	50 x 30	3	340		1	107.000	**6349 44 7**
CPS 5 G 380 FT	Perforated	50 x 30	3	380		1	119.000	**6349 46 3**

St Steel FT Hot-dip galvanised /pc.

Heavy-duty profile rail. In fixed lengths, with rectangular perforation and a slot width of 22 mm.

Static values:
A = 3,3854 cm²
Iy = 3,9943 cm⁴
Iz = 13,1098 cm⁴
Wy = 3,9512 cm³
Wz = 6,3751 cm³



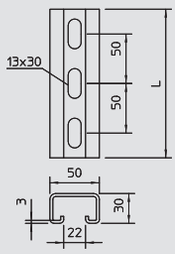
Profile rail, slot 22 mm, V2A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
CPS 5 L 2M VA	Perforated	50 x 30	3	2000		2	282.500	**1121 48 0**
CPS 5 L 6M VA	Perforated	50 x 30	3	6000		6	282.500	**1121 49 9**

V2A Stainless steel, grade 304 /100 m

Heavy-weight profile rail with continuous perforation, slot width 22 mm.

Static values:
A = 3,3854 cm²
Iy = 3,9943 cm⁴
Iz = 13,1098 cm⁴
Wy = 3,9512 cm³
Wz = 6,3751 cm³



Profile rail, slot 22 mm, V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 5 L 200 V4A	Perforated	50 x 30	3	200		1	57.000	**1121 39 3**
CPS 5 L 300 V4A	Perforated	50 x 30	3	300		5	85.500	**1121 24 5**
CPS 5 L 400 V4A	Perforated	50 x 30	3	400		1	114.000	**1121 28 0**
CPS 5 L 500 V4A	Perforated	50 x 30	3	500		1	142.500	**1121 40 7**
CPS 5 L 600 V4A	Perforated	50 x 30	3	600		1	171.000	**1121 29 6**
CPS 5 L 700 V4A	Perforated	50 x 30	3	700		5	199.500	**1121 33 4**
CPS 5 L 800 V4A	Perforated	50 x 30	3	800		5	228.000	**1121 31 0**
CPS 5 L 900 V4A	Perforated	50 x 30	3	900		1	256.500	**1121 33 8**

V4A Stainless steel, grade 316 Ti /100 pc.

Heavy-duty profile rail with continuous lengthwise perforation, slot width 22 mm.

Static values:
A = 3,3854 cm²
Iy = 3,9943 cm⁴
Iz = 13,1098 cm⁴
Wy = 3,9512 cm³
Wz = 6,3751 cm³

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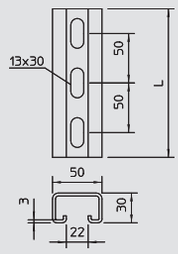
Profile rail, slot 22 mm, V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 5 L 1.5M V4A	Perforated	50 x 30	3	1500		1	427.500	**1121 36 5**
CPS 5 L 2M V4A	Perforated	50 x 30	3	2000		2	285.000	**1121 46 5**
CPS 5 L 3M V4A	Perforated	50 x 30	3	3000		1	285.000	**1121 46 9**
CPS 5 L 6M V4A	Perforated	50 x 30	3	6000		6	285.000	**1121 47 3**

V4A Stainless steel, grade 316 Ti /100 m /100 pc.

Heavy-duty profile rail with continuous lengthwise perforation, slot width 22 mm.

Static values:
A = 3,3854 cm²
Iy = 3,9943 cm⁴
Iz = 13,1098 cm⁴
Wy = 3,9512 cm³
Wz = 6,3751 cm³

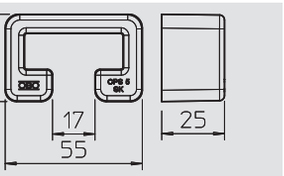


Protective cap, CPS 5

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
CPS 5 SK OR SP	Pastel orange	300		25	1.260	**1124 56 3**

PE Polyethylene /100 pc.

End caps for profile rail, types CPS 5 and CPS 5G.

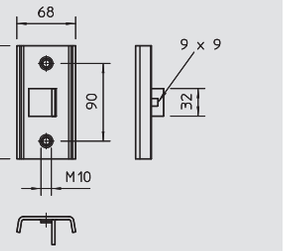


Rung seat for steel supports

Type		Pack. pair	Weight kg/100 pairs	Item No.
SAA CPS 4 FT		5	82.600	**6007 49 8**

St Steel FT Hot-dip galvanised /pair

Rung seat for fastening rungs of type CPS 4 in steel girders.

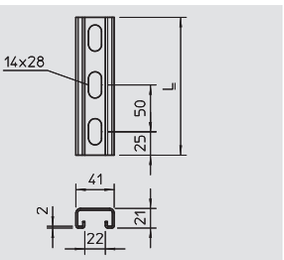


Mounting rail, MS 21

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MS 21 L 800 FS	Perforated	41x21	2	800		1	113.500	**1122 95 7**

St Steel FS Strip-galvanised /100 pc.

Static values:
A = 1,64837 cm²
Iy = 0,952339 cm⁴
Iz = 4,5113 cm⁴
Wy = 0,888299 cm²
Wz = 2,20087 cm³



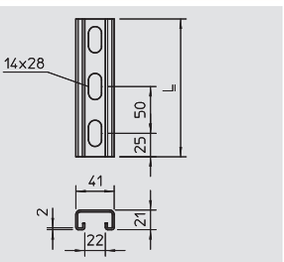
Mounting rail, MS 21

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 21 L 2M FS	Perforated	41x21	2	2000		10	141.900	**1122 91 8**
MS 21 L 3M FS	Perforated	41x21	2	3000		1	141.900	**1122 92 0**
MS 21 L 6M FS	Perforated	41x21	2	6000		1	141.900	**1122 92 2**

St Steel FS Strip-galvanised /100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 1,64837 cm²
Iy = 0,952339 cm⁴
Iz = 4,5113 cm⁴
Wy = 0,888299 cm³
Wz = 2,20087 cm³



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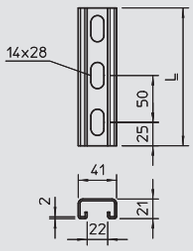
Always indicate the item number when ordering.



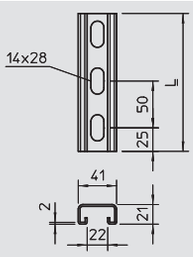
Mounting rail, MS 21

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MS 21 L 200 FT	Perforated	41x21	2	200		30	30.300	**1122 93 3**
MS 21 L 300 FT	Perforated	41x21	2	300		25	45.500	**1122 93 4**
MS 21 L 400 FT	Perforated	41x21	2	400		10	60.600	**1122 93 5**
MS 21 L 500 FT	Perforated	41x21	2	500		1	75.800	**1122 93 6**
MS 21 L 600 FT	Perforated	41x21	2	600		1	90.900	**1122 93 7**
MS 21 L 700 FT	Perforated	41x21	2	700		1	106.100	**1122 93 8**
MS 21 L 800 FT	Perforated	41x21	2	800		1	121.200	**1122 93 9**
MS 21 L 900 FT	Perforated	41x21	2	900		1	136.400	**1122 94 0**

St Steel FT Hot-dip galvanised /100 pc.

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 1,64837 cm²
Iy = 0,952339 cm⁴
Iz = 4,5113 cm⁴
Wy = 0,888299 cm³
Wz = 2,20087 cm³



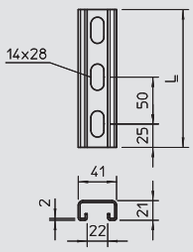
Mounting rail, MS 21

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 21 L 2M FT	Perforated	41x21	2	2000		10	151.500	**1122 92 3**
MS 21 L 3M FT	Perforated	41x21	2	3000		1	151.500	**1122 92 4**
MS 21 L 6M FT	Perforated	41x21	2	6000		1	151.500	**1122 92 6**

St Steel FT Hot-dip galvanised /100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 1,64837 cm²
Iy = 0,952339 cm⁴
Iz = 4,5113 cm⁴
Wy = 0,888299 cm³
Wz = 2,20087 cm³



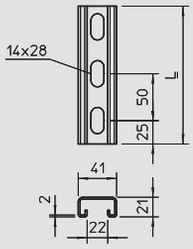
Mounting rail, MS 21 V2A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 21 L 3M V2A	Perforated	41x21	2	3000		1	141.900	**1122 92 8**
MS 21 L 6M V2A	Perforated	41x21	2	6000		1	141.900	**1122 92 9**

V2A Stainless steel, grade 304 /100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 1,64837 cm²
Iy = 0,952339 cm⁴
Iz = 4,5113 cm⁴
Wy = 0,888299 cm³
Wz = 2,20087 cm³



Mounting rail, MS 21 V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 21 L 2M V4A	Perforated	41x21	2	2000		10	141.900	**1122 47 6**
MS 21 L 3M V4A	Perforated	41x21	2	3000		1	141.900	**1122 93 1**
MS 21 L 6M V4A	Perforated	41x21	2	6000		1	141.900	**1122 93 2**

V4A Stainless steel, grade 316 Ti /100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 1,64837 cm²
Iy = 0,952339 cm⁴
Iz = 4,5113 cm⁴
Wy = 0,888299 cm³
Wz = 2,20087 cm³

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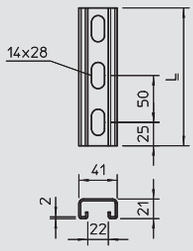
Mounting rail, MS 21 V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MS 21 L 200 V4A	Perforated	41x21	2	200		30	28.380	**1122 46 8**
MS 21 L 300 V4A	Perforated	41x21	2	300		25	42.570	**1122 46 9**
MS 21 L 400 V4A	Perforated	41x21	2	400		10	56.760	**1122 47 0**
MS 21 L 500 V4A	Perforated	41x21	2	500		1	70.950	**1122 47 1**
MS 21 L 600 V4A	Perforated	41x21	2	600		1	85.140	**1122 47 2**
MS 21 L 700 V4A	Perforated	41x21	2	700		1	99.330	**1122 47 3**
MS 21 L 800 V4A	Perforated	41x21	2	800		1	113.520	**1122 47 4**
MS 21 L 900 V4A	Perforated	41x21	2	900		1	127.710	**1122 47 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 1,64837 cm²
Iy = 0,952339 cm⁴
Iz = 4,5113 cm⁴
Wy = 0,888299 cm²
Wz = 2,20087 cm³



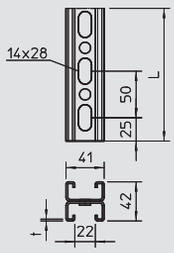
Mounting rail, MS 21, double version

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 21 D L 3M FS	Perforated	41x21	2	3000		1	—	**1122 94 7**
MS 21 D L 6M FS	Perforated	41x21	2	6000		1	—	**1122 94 8**

St Steel FS Strip-galvanised /100 m

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).

Static values:
A = 3,2968 cm²
Iy = 5,3802 cm⁴
Iz = 9,0227 cm⁴
Wy = 1,281 cm²
Wz = 0,2524 cm³



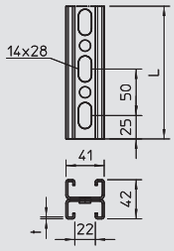
Mounting rail, MS 21, double version

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 21 D L 3M FT	Perforated	41x21	2	3000		1	—	**1122 94 4**
MS 21 D L 6M FT	Perforated	41x21	2	6000		1	—	**1122 94 5**

St Steel FT Hot-dip galvanised /100 m

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).

Static values:
A = 3,2968 cm²
Iy = 5,3802 cm⁴
Iz = 9,0227 cm⁴
Wy = 1,281 cm²
Wz = 0,2524 cm³



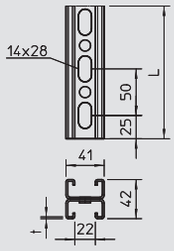
Mounting rail, MS 21, double version, V2A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 21 D L3M 2V2A	Perforated	41x21	2	3000		1	—	**1122 95 2**
MS 21 D L6M 2V2A	Perforated	41x21	2	6000		1	—	**1122 95 4**

V2A Stainless steel, grade 304 /100 m

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 (welded).

Static values:
A = 3,2968 cm²
Iy = 5,3802 cm⁴
Iz = 9,0227 cm⁴
Wy = 1,281 cm³
Wz = 0,2524 cm³

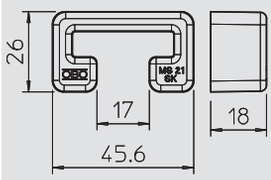


Protective cap MS21

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
MS 21 SK OR SP	Pastel orange	300		25	0.650	**1122 90 2**

PE Polyethylene /100 pc.

Protective caps for profile rail, types MS 21.



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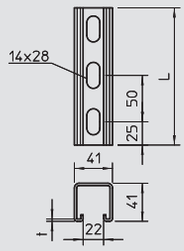
Always indicate the item number when ordering.



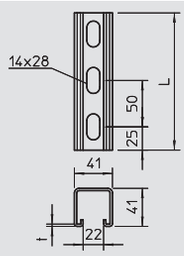
Mounting rail, MS41

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 L 1M 2 FS	Perforated	41x41	2	1000		5	201.100	**1122 97 0**
MS 41 L 3M 2 FS	Perforated	41x41	2	3000		1	201.100	**1122 97 2**
MS 41 L 6M 2 FS	Perforated	41x41	2	6000		1	201.100	**1122 97 4**

St Steel FS Strip-galvanised /100 m

Stable profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 2,44837 cm²
Iy = 5,17636 cm⁴
Iz = 7,556 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³



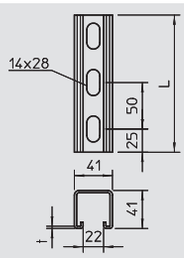
Mounting rail, MS41

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 L 1M FS	Perforated	41x41	2.5	1000		5	247.500	**1122 90 8**
MS 41 L 3M FS	Perforated	41x41	2.5	3000		1	247.500	**1122 91 0**
MS 41 L 6M FS	Perforated	41x41	2.5	6000		1	247.500	**1122 91 2**

St Steel FS Strip-galvanised /100 m

Heavyweight profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 2,96937 cm²
Iy = 6,05302 cm⁴
Iz = 9,01392 cm⁴
Wy = 2,91256 cm³
Wz = 4,39726 cm³



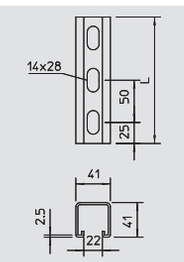
Mounting rail, MS41

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 LS 1M 2 FS	Perforated	41x41	2	1000		5	179.400	**1123 00 8**
MS 41 LS 3M 2 FS	Perforated	41x41	2	3000		1	179.400	**1123 01 0**
MS 41 LS 6M 2 FS	Perforated	41x41	2	6000		1	179.400	**1123 01 2**

St Steel FS Strip-galvanised /100 m

Stable profile/mounting rail with continuous, three-sided perforation, slot width 22 mm.

Static values:
A = 2,44837 cm²
Iy = 5,17636 cm⁴
Iz = 7,556 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³



Mounting rail, MS41

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MS 41 L 200 FT	Perforated	41x41	2.5	200		6	52.400	**1122 50 9**
MS 41 L 300 FT	Perforated	41x41	2.5	300		6	78.500	**1122 51 7**
MS 41 L 400 FT	Perforated	41x41	2.5	400		6	104.700	**1122 52 5**
MS 41 L 500 FT	Perforated	41x41	2.5	500		6	130.800	**1122 53 3**
MS 41 L 600 FT	Perforated	41x41	2.5	600		6	156.900	**1122 54 1**
MS 41 L 700 FT	Perforated	41x41	2.5	700		6	183.000	**1122 56 8**
MS 41 L 800 FT	Perforated	41x41	2.5	800		6	209.200	**1122 57 6**
MS 41 L 900 FT	Perforated	41x41	2.5	900		6	235.300	**1122 58 4**

St Steel FT Hot-dip galvanised /100 pc.

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 2,96937 cm²
Iy = 6,05302 cm⁴
Iz = 9,01392 cm⁴
Wy = 2,91256 cm³
Wz = 4,39726 cm³

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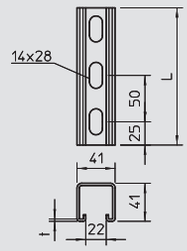
Mounting rail, MS41

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 L 1M 2 FT	Perforated	41x41	2	1000		5	214.700	**1122 96 2**
MS 41 L 3M 2 FT	Perforated	41x41	2	3000		1	214.700	**1122 96 4**
MS 41 L 6M 2 FT	Perforated	41x41	2	6000		1	214.700	**1122 96 6**

St Steel FT Hot-dip galvanised /100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 2,44837 cm²
Iy = 5,17636 cm⁴
Iz = 7,556 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³



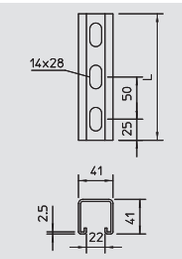
Mounting rail, MS41

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 L 1M FT	Perforated	41x41	2.5	1000		6	261.400	**1122 60 6**
MS 41 L 3M FT	Perforated	41x41	2.5	3000		3	261.400	**1122 62 2**
MS 41 L 6M FT	Perforated	41x41	2.5	6000		6	261.400	**1122 65 7**

St Steel FT Hot-dip galvanised /100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 2,96937 cm²
Iy = 6,05302 cm⁴
Iz = 9,01392 cm⁴
Wy = 2,91256 cm³
Wz = 4,39726 cm³



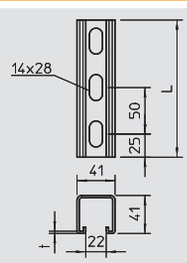
Mounting rail, MS 41 V2A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 L 1M 2 V2A	Perforated	41x41	2	1000		5	201.100	**1122 97 8**
MS 41 L 3M 2 V2A	Perforated	41x41	2	3000		1	201.100	**1122 98 0**
MS 41 L 6M 2 V2A	Perforated	41x41	2	6000		1	201.100	**1122 98 2**

V2A Stainless steel, grade 304 /100 m

Heavy-duty profile rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 2,44837 cm²
Iy = 5,17636 cm⁴
Iz = 7,556 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³



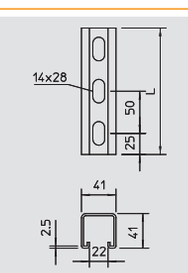
Mounting rail, MS 41 V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MS 41 L 200 V4A	Perforated	41x41	2.5	200		6	49.500	**1123 03 1**
MS 41 L 300 V4A	Perforated	41x41	2.5	300		6	74.300	**1123 03 3**
MS 41 L 400 V4A	Perforated	41x41	2.5	400		6	99.000	**1123 03 5**
MS 41 L 500 V4A	Perforated	41x41	2.5	500		6	123.800	**1123 03 7**
MS 41 L 600 V4A	Perforated	41x41	2.5	600		6	148.500	**1123 03 9**
MS 41 L 700 V4A	Perforated	41x41	2.5	700		6	173.300	**1123 04 1**
MS 41 L 800 V4A	Perforated	41x41	2.5	800		6	198.000	**1123 04 3**
MS 41 L 900 V4A	Perforated	41x41	2.5	900		6	222.800	**1123 04 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 2,96937 cm²
Iy = 6,05302 cm⁴
Iz = 9,01392 cm⁴
Wy = 2,91256 cm³
Wz = 4,39726 cm³



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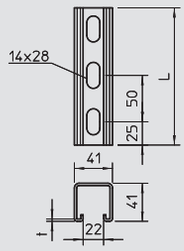
Always indicate the item number when ordering.



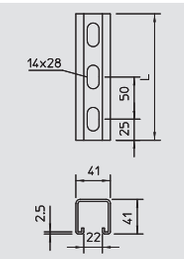
Mounting rail, MS 41 V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 L 1M 2 V4A	Perforated	41x41	2	1000		5	201.100	**1122 98 8**
MS 41 L 3M 2 V4A	Perforated	41x41	2	3000		1	201.100	**1122 99 0**
MS 41 L 6M 2 V4A	Perforated	41x41	2	6000		1	201.100	**1122 99 2**

V4A Stainless steel, grade 316 Ti /100 m

Heavy-duty profile rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 2,44837 cm²
Iy = 5,17636 cm⁴
Iz = 7,556 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³



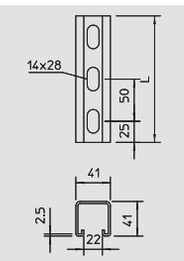
Mounting rail, MS 41 V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 L 1M V4A	Perforated	41x41	2.5	1000		6	247.500	**1123 04 7**
MS 41 L 3M V4A	Perforated	41x41	2.5	3000		3	247.500	**1123 04 9**
MS 41 L 6M V4A	Perforated	41x41	2.5	6000		6	2.480	**1123 05 1**

V4A Stainless steel, grade 316 Ti /100 m

Heavy-duty profile rail with continuous perforation in base, slot width 22 mm.

Static values:
A = 2,96937 cm²
Iy = 6,05302 cm⁴
Iz = 9,01392 cm⁴
Wy = 2,91256 cm³
Wz = 4,39726 cm³



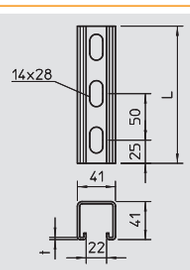
Mounting rail, MS41

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 LS 1M FS	Perforated	41x41	2.5	1000		1	225.500	**1122 48 1**
MS 41 LS 3M FS	Perforated	41x41	2.5	3000		1	225.500	**1122 91 4**
MS 41 LS 6M FS	Perforated	41x41	2.5	6000		1	225.500	**1122 91 6**

St Steel FS Strip-galvanised /100 m

Heavyweight profile/mounting rail with continuous, three-sided perforation, slot width 22 mm.

Static values:
A = 2,4195 cm²
Iy = 5,9974 cm⁴
Iz = 6,9732 cm⁴
Wy = 2,91256 cm³
Wz = 4,39726 cm³



Mounting rail, MS41

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 LS 1M FT	Perforated	41x41	2.5	1000		1	238.300	**1122 47 9**
MS 41 LS 3M FT	Perforated	41x41	2.5	3000		3	238.300	**1122 48 3**
MS 41 LS 6M FT	Perforated	41x41	2.5	6000		6	238.300	**1122 48 7**

St Steel FT Hot-dip galvanised /100 m

Heavy-duty profile/mounting rail with continuous, three-sided perforation, slot width 22 mm.

Static values:
A = 2,4195 cm²
Iy = 5,9974 cm⁴
Iz = 6,9732 cm⁴
Wy = 2,4875 cm³
Wz = 2,8774 cm³

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Always indicate the item number when ordering.

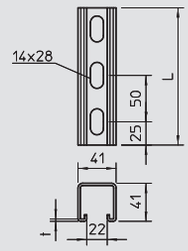
Mounting rail, MS 41 V2A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 LS1M 2 V2A	Perforated	41x41	2	1000		5	179.400	**1123 01 4**
MS 41 LS3M 2 V2A	Perforated	41x41	2	3000		1	179.400	**1123 01 6**
MS 41 LS6M 2 V2A	Perforated	41x41	2	6000		1	179.400	**1123 01 8**

V2A Stainless steel, grade 304 /100 m

Heavy-duty profile rail with continuous, three-sided perforation, slot width 22 mm.

Static values:
A = 2,0085 cm²
Iy = 5,1323 cm⁴
Iz = 5,8816 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³



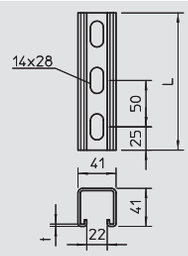
Mounting rail, MS41

Type	Version	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 LS 1M 2 FT	Perforated	2	1000		5	191.500	**1123 00 1**
MS 41 LS 3M 2 FT	Perforated	2	3000		1	191.500	**1123 00 3**
MS 41 LS 6M 2 FT	Perforated	2	6000		1	191.500	**1123 00 5**

St Steel FT Hot-dip galvanised /100 m

Heavy-duty profile/mounting rail with continuous, three-sided perforation, slot width 22 mm.

Static values:
A = 2,0085 cm²
Iy = 5,1323 cm⁴
Iz = 5,8816 cm⁴
Wy = 2,4875 cm³
Wz = 2,8774 cm³



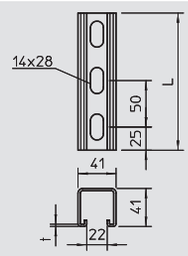
Mounting rail, MS 41 V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 LS1M 2 V4A	Perforated	41x41	2	1000		5	179.400	**1123 02 1**
MS 41 LS3M 2 V4A	Perforated	41x41	2	3000		1	179.400	**1123 02 3**
MS 41 LS6M 2 V4A	Perforated	41x41	2	6000		1	179.400	**1123 02 5**

V4A Stainless steel, grade 316 Ti /100 m

Heavy-duty profile rail with continuous, three-sided perforation, slot width 22 mm.

Static values:
A = 2,0085 cm²
Iy = 5,1323 cm⁴
Iz = 5,8816 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³



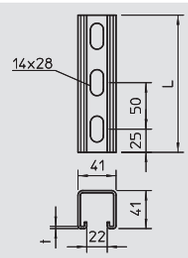
Mounting rail, MS41

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MS 41 LS 300 FT	Perforated	41x41	2.5	300		6	71.500	**1122 50 0**
MS 41 LS 400 FT	Perforated	41x41	2.5	400		6	95.300	**1122 50 1**

St Steel FT Hot-dip galvanised /100 pc.

Heavyweight profile/mounting rail with continuous, three-sided perforation, slot width 22 mm.

Static values:
A = 2,4195 cm²
Iy = 5,9974 cm⁴
Iz = 6,9732 cm⁴
Wy = 2,4875 cm³
Wz = 2,8774 cm³



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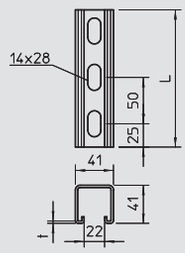
Always indicate the item number when ordering.

Mounting rail, MS 41 V4A



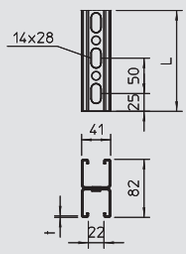
Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 LS 1M V4A	Perforated	41x41	2.5	1000		1	225.500	**1123 07 7**
MS 41 LS 6M V4A	Perforated	41x41	2.5	6000		6	225.500	**1123 07 9**

V4A Stainless steel, grade 316 Ti /100 m

Heavy-duty profile rail with continuous, three-sided perforation, slot width 22 mm.

Static values:
A = 2,4195 cm²
Iy = 5,9974 cm⁴
Iz = 6,9732 cm⁴
Wy = 2,4875 cm³
Wz = 2,8774 cm³

Mounting rail, MS 41, double version



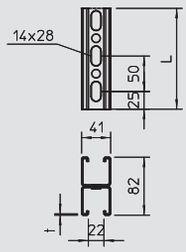
Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41D L 3M 2 FS	Perforated	41x82	2	2000		1	—	**1122 67 6**
MS 41D L 6M 2 FS	Perforated	41x82	2	6000		1	—	**1122 67 8**

St Steel FS Strip-galvanised /100 m

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).

Static values:
A = 4,8569 cm²
Iy = 30,6909 cm⁴
Iz = 15,1124 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³

Mounting rail, MS 41, double version



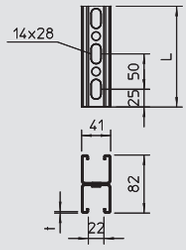
Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41D L 3M 2 FT	Perforated	41x82	2	2000		1	—	**1122 67 1**
MS 41D L 6M 2 FT	Perforated	41x82	2	6000		1	—	**1122 67 3**

St Steel FT Hot-dip galvanised /100 m

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).

Static values:
A = 4,8969 cm²
Iy = 30,6909 cm⁴
Iz = 15,1124 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³

Mounting rail, MS 41, double version, V2A



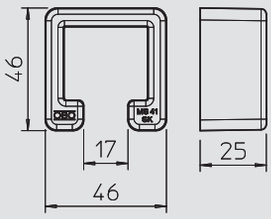
Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. m	Weight kg/100 m	Item No.
MS 41 D L3M 2V2A	Perforated	41x82	2	2000		1	—	**1122 68 2**
MS 41 D L6M 2V2A	Perforated	41x82	2	6000		1	—	**1122 68 4**

V2A Stainless steel, grade 304 /100 m

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 (welded).

Static values:
A = 4,8969 cm²
Iy = 30,6909 cm⁴
Iz = 15,1124 cm⁴
Wy = 2,51257 cm³
Wz = 2,68608 cm³

Protective cap MS41



Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
MS 41 SK OR SP	Pastel orange	300		25	1.320	**1122 90 0**

PE Polyethylene /100 pc.

Protective caps for profile rail, types MS 41.

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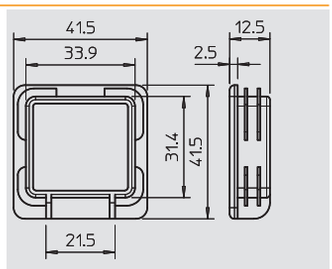
End cap MS 41

Type	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
MS 41 EDK OR	Pastel orange	50		50	0.650	**1122 90 6**

PE Polyethylene /100 pc.

End cap for profile rail, type MS 41.



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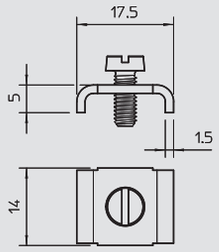
Always indicate the item number when ordering.



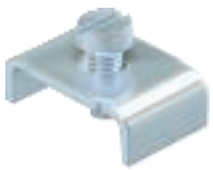
Slide nut, 11 mm slot width

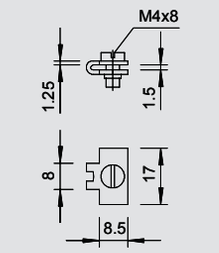
11-12

Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T4012 M4x10 G	M4	With bolt M4 x 10	2400		100	0.740	**1134 05 1**
T4012 O.S. M4 G	M4	No bolt	4000		100	0.250	**1134 26 4**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rail 2060 with 11 mm slot width.





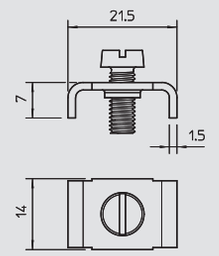
Slide nut, 11–12 mm slot width

11-12

Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2065 N M4 G	M4	With bolt M4 x 8	3000		100	0.410	**1133 02 0**

St Steel G Electrogalvanised /100 pc.

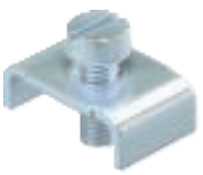
Slide nut for profile rails with a slot width of 11–12 mm.

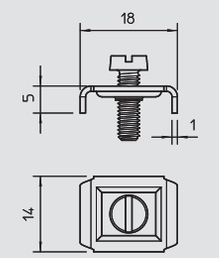


Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T4012G M5x13 G	M5	With bolt M5 x 13	2000		100	0.720	**1134 04 3**
T4012G O.S. M5 G	M5	No bolt	2000		100	0.460	**1134 25 6**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 11–12 mm.

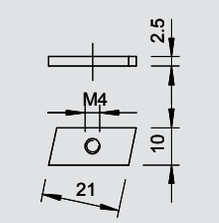




Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T4012N M4x10 G	M4	With bolt M4 x 10	3600		100	0.370	**1134 02 7**
T4012N M4x8 G	M4	With bolt M4 x 8	3600		100	0.380	**1134 30 2**

St Steel G Electrogalvanised /100 pc.

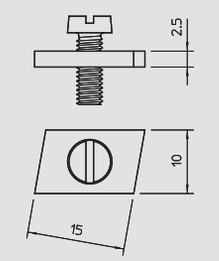
Slide nut for profile rails with a slot width of 11–12 mm.



Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
4014 G	M4	No bolt	4000		100	0.460	**1137 22 0**

St Steel G Electrogalvanised /100 pc.

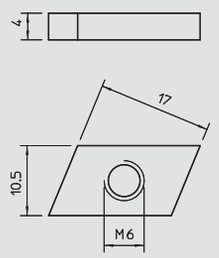
Slide nut for profile rails with a slot width of 11–12 mm.



Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
4014 N M.S. G	M4	With bolt M4 x 8	4000		100	0.320	**1137 01 8**
4014 N G	M4	No bolt	4000		100	0.320	**1137 21 2**

St Steel G Electrogalvanised /100 pc.

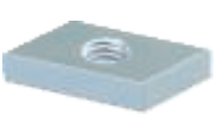
Slide nut for profile rails with a slot width of 11–12 mm.



Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
5015 M5 OS G	M5	No bolt	2600		100	0.460	**1141 05 8**
5015 M6 OS G	M6	No bolt	2600		100	0.440	**1141 06 6**
5015 M6 OS VA	M6	No bolt	2600		100	0.440	**1141 10 4**

St Steel V2A Stainless steel, grade 304 G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 11–12 mm.
For NS rung, mountable from above.



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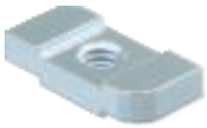
11-12

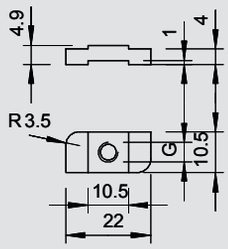


Slide nut, 11–12 mm slot width

Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
5016 M5 OS G	M5	No bolt	2400		100	0.620	**1142 05 4**
5016 M6 OS G	M6	No bolt	2400		100	0.610	**1142 06 2**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 11–12 mm.
Mounted from top.



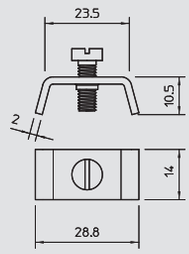
16-17

Slide nut, 16–17 mm slot width

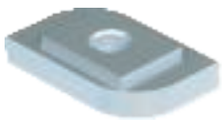
Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
T5012 M5x13 G	M5	With bolt M5 x 13	1000		100	1.150	**1140 01 9**
T5012 O.S. M5 G	M5	No bolt	1000		100	0.900	**1140 21 3**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 16–17 mm.



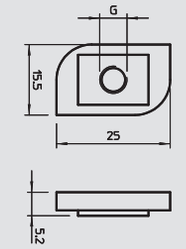
16-17



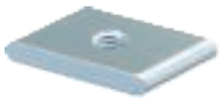
Type	Thread	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
5017 M6 OS G	M6	No bolt	1000		100	0.990	**1143 06 9**
5017 M6 OS VA	M6	No bolt	1000		100	0.990	**1143 12 3**
5017 M8 OS VA	M8	No bolt	600		100	1.430	**1143 12 5**
5017 M10 OS VA	M10	No bolt	600		100	1.310	**1143 12 7**

St Steel V4A Stainless steel, grade 316 Ti G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 16–17 mm.
For VS rung, mountable from above.



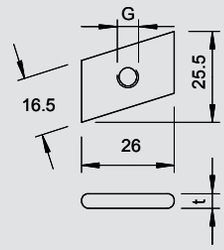
16-17



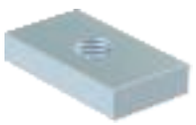
Type	Thread	Dimension G mm	Dimension t mm	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
5019 M6 OS G	M6	6	4	No bolt	1200		100	1.150	**1144 10 3**
5019 M8 OS G	M8	8	5	No bolt	600		100	1.450	**1144 11 1**
5019 M10 OS G	M10	10	6	No bolt	600		100	1.650	**1144 13 8**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 16–17 mm.



18

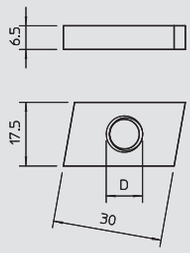


Slide nut, 18 mm slot width

Type	Thread	Dimension D mm	Recommended load capacity kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMH18 M6 G	M6	6	1.94	500		50	2.400	**1146 50 5**
GMH18 M8 G	M8	8	3.57	500		50	2.300	**1146 51 3**
GMH18 M10 G	M10	10	5.7	500		50	2.300	**1146 52 1**
GMH18 M6 VA	M6	6	1.94	500		50	2.400	**1146 55 6**
GMH18 M8 VA	M8	8	3.57	500		50	2.300	**1146 55 8**
GMH18 M10 VA	M10	10	5.7	500		50	2.300	**1146 56 0**
GMH18 M12 VA	M12	12	8.32	500		50	2.000	**1146 56 2**

St Steel V4A Stainless steel, grade 316 G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 18 mm.

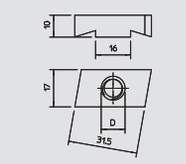


18

Type	Thread	Dimension D mm	Recommended load capacity kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
HGMH18 M6 G	M6	6	1.94	300		50	3.600	**1146 71 8**
HGMH18 M8 G	M8	8	3.57	300		50	2.300	**1146 72 6**
HGMH18 M10 G	M10	10	5.7	300		50	2.300	**1146 73 4**
HGMH18 M12 G	M12	12	8.32	300		50	2.000	**1146 74 2**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 18 mm.



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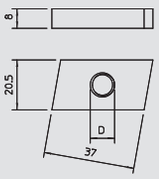
Always indicate the item number when ordering.



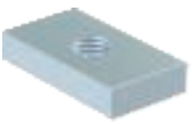
Slide nut, 22 mm slot width

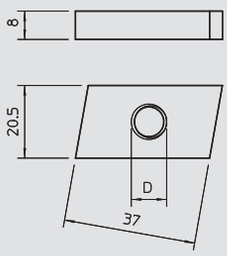
22

Type	Thread	Dimension D mm	Recommended load capacity kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMH22 M6 G	M6	6	1.94	300		50	4.500	**1146 60 2**
GMH22 M8 G	M8	8	3.57	300		50	4.300	**1146 61 0**
GMH22 M10 G	M10	10	5.7	300		50	4.300	**1146 62 9**
GMH22 M12 G	M12	12	8.32	300		50	4.200	**1146 63 7**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 22 mm. Cannot be used for the mounting rail MS21 and MS41.





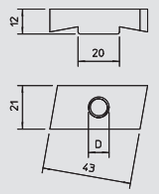
Slide nut, 22 mm slot width, V4A

22

Type	Thread	Dimension D mm	Recommended load capacity kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMH22 M6 VA	M6	6	1.94	300		50	4.500	**1146 64 6**
GMH22 M8 VA	M8	8	3.57	300		50	4.300	**1146 64 8**
GMH22 M10 VA	M10	10	5.7	300		50	4.300	**1146 65 0**
GMH22 M12 VA	M12	12	8.32	300		50	4.200	**1146 65 2**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rails with a slot width of 22 mm. Cannot be used for the mounting rail MS21 and MS41.



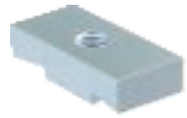
Slide nut, 22 mm slot width

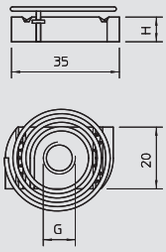
22

Type	Thread	Dimension D mm	Recommended load capacity kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
HGMH22 M8 G	M8	8	3.57	300		50	4.300	**1146 80 7**
HGMH22 M10 G	M10	10	5.7	300		50	4.200	**1146 81 5**
HGMH22 M12 G	M12	12	8.32	200		50	4.100	**1146 82 3**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rails with a slot width of 22 mm. Cannot be used for the mounting rail MS21 and MS41.





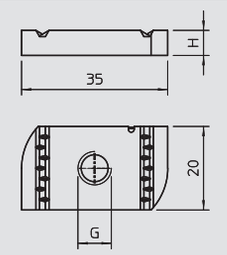
Slide nut, 22 mm slot width, for MS 21 / 41

22

Type	Thread	Dimension H mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMF22 M6 G	M6	6	300		50	4.300	**1146 45 1**
GMF22 M8 G	M8	6	300		50	4.200	**1146 45 5**
GMF22 M10 G	M10	8	200		50	4.100	**1146 45 9**
GMF22 M12 G	M12	9.5	200		50	3.900	**1146 46 3**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rail MS 21 / 41, with tensioning spring and toothing, fixing by 90° rotation.



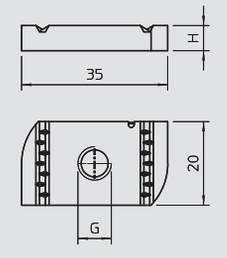
Slide nut, 22 mm slot width, for MS 21 / 41

22

Type	Thread	Dimension H mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
G22 M6 G	M6	6	300		50	2.700	**1146 39 0**
G22 M8 G	M8	6	300		50	2.470	**1146 39 2**
G22 M10 G	M10	8	300		50	3.200	**1146 39 4**
G22 M12 G	M12	9.5	300		50	3.700	**1146 39 6**

St Steel G Electrogalvanised /100 pc.

Slide nut for profile rail MS 21 / 41, without tensioning spring with toothing, fixing by 90° rotation.



Slide nut, 22 mm slot width, for MS 21 / 41, V4A

22

Type	Thread	Dimension H mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
G22 M6 V4A	M6	6	300		50	2.700	**1146 40 1**
G22 M8 V4A	M8	6	300		50	2.470	**1146 40 3**
G22 M10 V4A	M10	8	300		50	3.200	**1146 40 6**
G22 M12 V4A	M12	9.5	300		50	3.700	**1146 40 8**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rail MS 21 / 41, without tensioning spring with toothing, fixing by 90° rotation.

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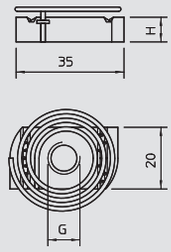
Slide nut, 22 mm slot width, for MS 21 / 41, V4A

Type	Thread	Dimension H mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMF22 M6 V4A	M6	6	300		50	2.930	**1146 43 0**
GMF22 M8 V4A	M8	6	300		50	2.870	**1146 43 4**
GMF22 M10 V4A	M10	8	200		50	3.470	**1146 43 8**
GMF22 M12 V4A	M12	9.5	200		50	4.110	**1146 44 2**

V4A Stainless steel, grade 316 /100 pc.

Slide nut for profile rail MS 21 / 41, with tensioning spring and toothing, fixing by 90° rotation.



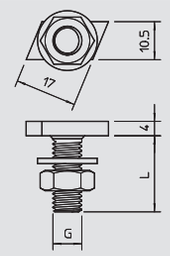
11-12

Hammer-head bolt, 11–12 mm slot width

Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
5020 M6X20 FT	M6	20	6	12	–	500		50	1.260	**1149 00 8**
5020 M6X25 FT	M6	25	6	12	–	500		50	1.340	**1149 01 6**
5020 M8X25 FT	M8	25	8	16	–	300		50	2.030	**1149 21 0**
5020 M10x40 FT	M10	40	10	20	–	300		50	3.950	**1149 45 8**

St Steel FT Hot-dip galvanised /100 pc.

Hammer-head bolt with washer and nut for profile rails with slot width 11–12 mm.

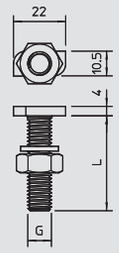


11-12

Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
5021 M6X25 FT	M6	25	6	12	–	500		50	1.500	**1150 01 4**
5021 M8X20 FT	M8	20	8	16	–	500		50	1.910	**1150 20 0**
5021 M8X25 FT	M8	25	8	16	–	500		50	2.110	**1150 21 9**
5021 M8X40 FT	M8	40	8	16	–	300		50	2.540	**1150 24 3**
5021 M10x40 FT	M10	40	10	20	–	300		50	4.090	**1150 45 6**

St Steel FT Hot-dip galvanised /100 pc.

Hammer-head bolt with washer and nut for profile rails with slot width 11–12 mm.



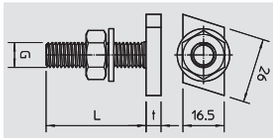
16-17

Hammer-head bolt, 16–17 mm slot width

Type	Thread	Dimension L mm	Dimension D mm	Dimension t mm	Washer Ø mm	Grade	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
5022 M6X25 F	M6	25	6	5	12	–	500		50	1.960	**1151 01 0**
5022 M6X30 F	M6	30	6	5	12	–	500		50	1.990	**1151 02 9**
5022 M8X25 F	M8	25	8	5	16	–	300		50	2.120	**1151 21 5**
5022 M8X30 F	M8	30	8	5	16	–	300		50	2.990	**1151 22 3**
5022 M8X40 F	M8	40	8	5	16	–	200		50	3.600	**1151 25 8**
5022 M10x25 F	M10	25	10	6	20	–	300		50	4.360	**1151 40 1**
5022 M10x30 F	M10	30	10	6	20	–	200		50	4.580	**1151 42 8**
5022 M10x40 F	M10	40	10	6	20	–	200		50	5.070	**1151 44 4**
5022 M12x30 G	M12	30	12	6	24	–	250		25	6.130	**1151 62 2**
5022 M12x40 G	M12	40	12	6	24	–	150		25	6.900	**1151 64 9**

St Steel F Hot-dip galvanised G Electrogalvanised /100 pc.

Hammer-head bolt with washer and nut for profile rails with slot width 16–17 mm.

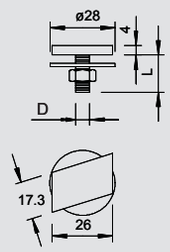


16-17

Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
5026 M6X20 G	M6	20	6	28	–	300		50	2.870	**1151 70 3**
5026 M8X25 G	M8	25	8	28	–	300		50	3.320	**1151 71 1**

St Steel G Electrogalvanised /100 pc.

Hammer-head bolt with washer and nut for profile rails with slot width 16–17 mm.



Rail systems

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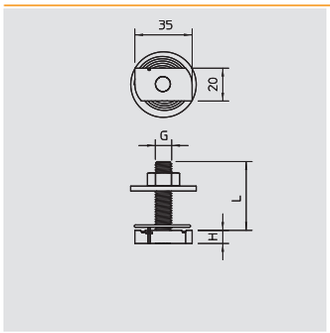
Always indicate the item number when ordering.



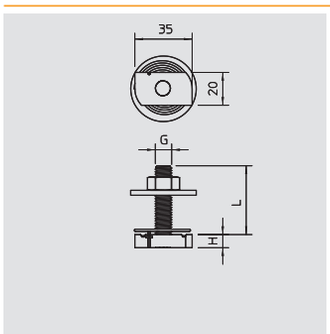
Hammer-head bolt, for MS 21 / 41

22

Type	Thread	Dimension L mm	Dimension H mm	Washer Ø mm	Grade	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HKF22 M8x30 G	M8	30	6	40	–	100	25	9.100	**1148 95 0**
HKF22 M8x50 G	M8	50	6	40	–	100	25	9.600	**1148 95 5**
HKF22 M10x30 G	M10	30	8	40	–	100	25	10.300	**1148 96 1**
HKF22 M10x50 G	M10	50	8	40	–	100	25	11.500	**1148 96 6**
HKF22 M12x30 G	M12	30	9.5	40	–	100	25	11.800	**1148 97 2**

St Steel G Electrogalvanised /100 pc.

Hammer-head bolt for profile rail MS 21 / 41, with tensioning spring and toothing, fixing by 90° rotation



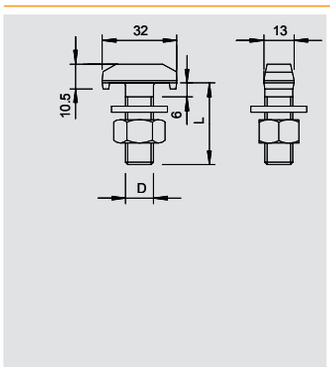
Hammer-head bolt, for MS 21 / 41 V4A

22

Type	Thread	Dimension L mm	Dimension H mm	Washer Ø mm	Grade	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
HKF22 M8x30 V4A	M8	30	6	40	1.4401	100	25	7.290	**1148 99 0**
HKF22 M8x50 V4A	M8	50	6	40	1.4401	100	25	8.130	**1148 99 2**
HKF22 M10x30 V4A	M10	30	8	40	1.4401	100	25	9.190	**1148 99 6**
HKF22 M10x50 V4A	M10	50	8	40	1.4401	100	25	10.190	**1148 99 8**
HKF22 M12x30 V4A	M12	30	9.5	40	1.4401	100	25	10.570	**1149 00 2**

V4A Stainless steel, grade 316 /100 pc.

V4A hammer-head bolt for profile rail MS 21 / 41, with tensioning spring and toothing, fixing by 90° rotation



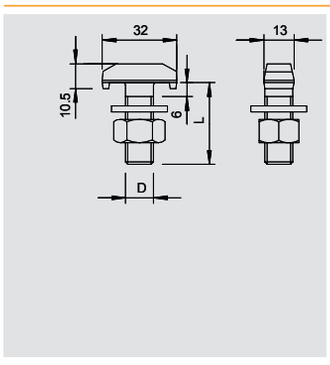
Hook-head bolt, 18 mm slot width

18

Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5023 M10x30 G	M10	30	10	20	–	300	50	4.130	**1153 41 2**
5023 M10x35 G	M10	35	10	20	–	200	50	4.690	**1153 42 0**
5023 M10x40 G	M10	40	10	20	–	250	25	4.970	**1153 43 9**
5023 M12x30 G	M12	30	12	24	–	150	25	6.450	**1153 61 7**
5023 M12x35 G	M12	35	12	24	–	150	25	6.800	**1153 62 5**
5023 M12x40 G	M12	40	12	24	–	150	25	7.200	**1153 63 3**
5023 M12x50 G	M12	50	12	24	–	150	25	7.840	**1153 64 1**

St Steel G Electrogalvanised /100 pc.

Hook-head bolt with washer and nut for profile rails with slot width 18 mm.



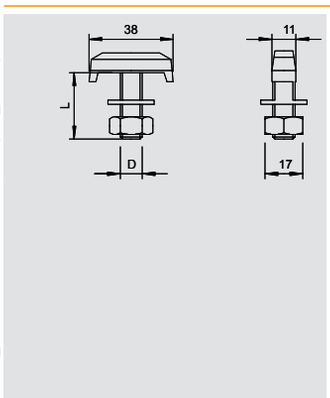
Hook-head bolt, 18 mm slot width V4A

18

Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5023 M10x30 V4A	M10	30	10	20	300	50	4.130	**1153 46 2**
5023 M10x35 V4A	M10	35	10	20	200	50	4.690	**1153 46 5**
5023 M10x40 V4A	M10	40	10	20	250	25	4.970	**1153 54 3**
5023 M12x30 V4A	M12	30	12	24	150	25	6.450	**1153 71 3**
5023 M12x35 V4A	M12	35	12	24	150	25	6.800	**1153 72 0**
5023 M12x40 V4A	M12	40	12	24	150	25	7.200	**1153 74 8**
5023 M12x50 V4A	M12	50	12	24	150	25	7.840	**1153 75 3**

V4A Stainless steel, grade 316 Ti /100 pc.

Hook-head bolt with washer and nut for profile rails with slot width 18 mm.



Hook-head bolt, 22 mm slot width

22

Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5024 M6x30 FT	M6	30	6	16	–	500	50	0.500	**1154 40 3**
5024 M10x30 G	M10	30	10	20	–	200	50	5.540	**1154 41 9**
5024 M10x35 G	M10	35	10	20	–	200	50	5.710	**1154 42 7**
5024 M10x40 G	M10	40	10	20	–	250	25	5.980	**1154 43 5**
5024 M12x30 G	M12	30	12	24	–	150	25	7.610	**1154 60 5**
5024 M12x35 G	M12	35	12	24	–	150	25	7.940	**1154 61 3**
5024 M12x40 G	M12	40	12	24	–	150	25	8.160	**1154 62 1**
5024 M12x50 G	M12	50	12	24	–	150	25	8.840	**1154 64 8**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Hook-head bolt with washer and nut for profile rails with slot width 22 mm. Cannot be used for the mounting rail MS21 and MS41.

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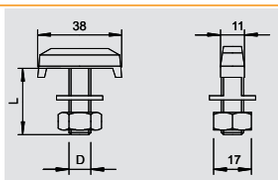
Hook-head bolt, 22 mm slot width V4A

Type	Thread	Dimension L mm	Dimension D mm	Washer Ø mm	Grade	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
5024 M6x30 V4A	M6	30	6	16	1.4571	500	50	2.450	**1154 40 9**
5024 M10x30 V4A	M10	30	10	20	1.4571	200	50	5.540	**1154 50 7**
5024 M10x35 V4A	M10	35	10	20	1.4571	200	50	5.710	**1154 51 6**
5024 M10x40 V4A	M10	40	10	20	1.4571	250	25	7.980	**1154 52 3**
5024 M12x30 V4A	M12	30	12	24	1.4571	150	25	7.610	**1154 70 1**
5024 M12x35 V4A	M12	35	12	24	1.4571	150	25	7.940	**1154 71 5**
5024 M12x40 V4A	M12	40	12	24	1.4571	150	25	8.160	**1154 72 8**
5024 M12x50 V4A	M12	50	12	24	1.4571	150	25	8.340	**1154 73 6**

V4A Stainless steel, grade 316 Ti /100 pc.

Hook-head bolt with washer and nut for profile rails with slot width 22 mm. Cannot be used for the mounting rail MS21 and MS41.

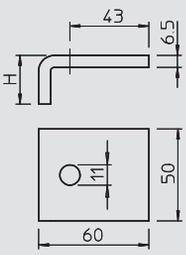


Clamping lug for clamp fastening system

Type	Height mm		Pack. pcs	Weight kg/100 pcs.	Item No.
KL1 10 S FT	10		10	22.500	**6354 10 6**
KL1 15 S FT	15		10	24.000	**6354 11 4**
KL1 20 S FT	20		10	25.000	**6354 12 2**

St Steel FT Hot-dip galvanised /pc.

Clamping lug, type KL1, to fasten light support structures to steel girder flanges.

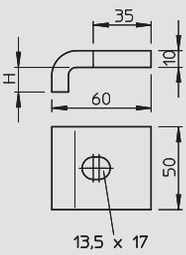


Clamping angle KWS

Type	Height mm	F in kN kN		Pack. pair	Weight kg/100 pairs	Item No.
KWS 5 FT	5	5.7		10	63.000	**6355 21 8**
KWS 10 FT	10	5.7		10	68.000	**6355 22 6**
KWS 15 FT	15	5.7		10	70.000	**6355 23 4**
KWS 20 FT	20	5.7		10	76.000	**6355 24 2**
KWS 25 FT	25	5.7		10	80.000	**6355 25 0**

St Steel FT Hot-dip galvanised /pair

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.

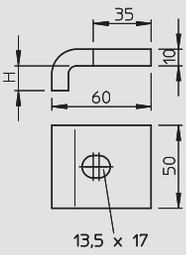


Clamping profile KWH for CPS 5, 22 mm slot width

Type	Height mm	F in kN kN		Pack. pair	Weight kg/100 pairs	Item No.
KWH 5 FT	5	5.7		10	63.000	**6355 02 1**
KWH 10 FT	10	5.7		10	68.000	**6355 04 8**
KWH 15 FT	15	5.7		10	70.000	**6355 05 6**
KWH 20 FT	20	5.7		10	76.000	**6355 06 4**
KWH 25 FT	25	5.7		10	80.000	**6355 07 2**

St Steel FT Hot-dip galvanised /pair

Clamping angle, with hammer-head bolt, type KWH, for fixing in the mounting rail, type CPS 5.

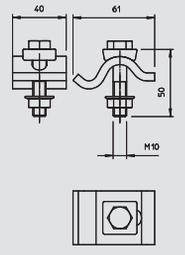


Chuck jaw, light-duty TKS

Type	Height mm	F in kN kN		Pack. pair	Weight kg/100 pairs	Item No.
TKS-L-25 FT	25	10		10	39.000	**6355 80 8**

St Steel FT Hot-dip galvanised /pair

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.

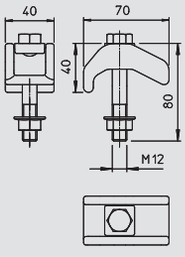


Chuck jaw, heavy-duty TKS

Type	Height mm	F in kN kN		Pack. pair	Weight kg/100 pairs	Item No.
TKS-S-30 FT	30	21		10	82.000	**6355 80 0**

St Steel FT Hot-dip galvanised /pair

Heavy-duty chuck jaw with hexagonal nut for direct fastening of structures to steel girders.



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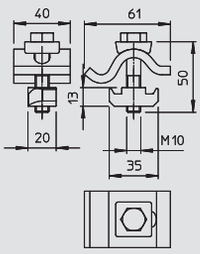
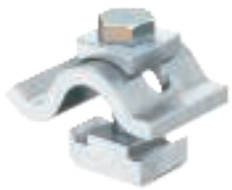
Always indicate the item number when ordering.



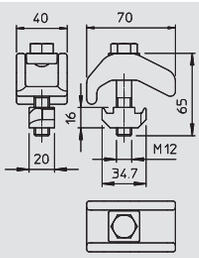
Chuck jaw, light-duty TKH, for CPS 4 and MS 41 18,- 22 mm slot width



Type	Height mm	F in kN kN		Pack. pair	Weight kg/100 pairs	Item No.
TKH-L-25 FT	25	10		10	46.000	**6355 81 2**

St Steel FT Hot-dip galvanised /pair

Light duty tensioning claw with slide nut for fixing mounting rails to steel girder flanges.

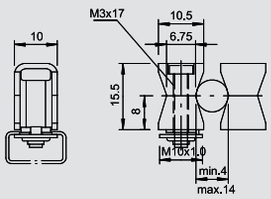


Chuck jaw, heavy-duty TKH, for CPS 5 and MS 41 18,- 22 mm slot width

Type	Height mm	F in kN kN		Pack. pair	Weight kg/100 pairs	Item No.
TKH-S-30 FT	30	21		10	81.000	**6355 80 4**

St Steel FT Hot-dip galvanised /pair

Heavy-duty chuck jaw with slide nut for fastening profile rails to steel girders.



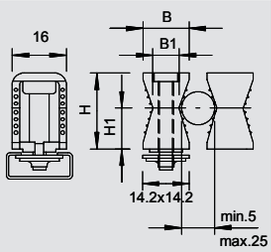
Series clip, slot 7.5 mm

7,5

Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2049 4-14 LGR	4-14	M3 x 17	Light grey	2000		100	0.240	**2254 01 8**

PS Polystyrene /100 pc.

Also suitable for C rails of 7.5 mm slot width; polystyrene clip element, impact resistant, halogen-free, light grey RAL 7035; metal parts: electrogalvanised steel.



Series clip, slot 11–12 mm

11-12

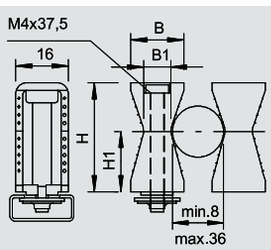
Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2050 5-25 LGR	5-25	M4 x 27	Light grey	1000		100	0.660	**2254 02 6**

PS Polystyrene /100 pc.

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.

Important dimensions, series clip

D mm	B mm	B1 mm	H mm	H1 mm
5–25	14	8.5	23	12.5



Series clip, slot 11–12 mm

11-12

Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2051 8-36 LGR	8-36	M4 x 37.5	Light grey	800		100	0.970	**2254 03 4**

PS Polystyrene /100 pc.

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.

Important dimensions, series clip

D mm	B mm	B1 mm	H mm
8–36	16.5	8.5	34

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16-17

Series clip, slot 16–17 mm

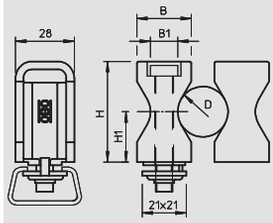
Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2054 14-48 LGR	14-48	M8 x 55	Light grey	300		25	5.120	**2255 01 4**
2055 24-72 LGR	24-72	M8 x 75	Light grey	240		20	7.970	**2255 02 2**

PA Polyamide /100 pc.

Heavy-duty version, also suitable for rails of 16 - 17 mm slot width; polyamide clip element, light grey RAL 7035;
Metal parts: electrogalvanised steel.

Important dimensions, series clip

D mm	B mm	B1 mm	H mm	H1 mm
14–48	26	13	48	24
24–72	38	15	70	35



16-17

Series clip, slot 16–17 mm

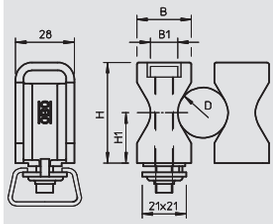
Type	Clamping range D mm	Bolt	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2054 14-48 PA	14-48	M8 x 55	Light grey	300		25	4.300	**2255 40 5**

PA Polyamide /100 pc.

Heavy-duty version, also suitable for rails of 16 - 17 mm slot width; polyamide clip element, light grey RAL 7035;
Metal parts: electrogalvanised steel.

Important dimensions, series clip

D mm	B mm	B1 mm	H mm	H1 mm
14–48	26	13	48	24



11-12

Impact clip, slot 11–12 mm

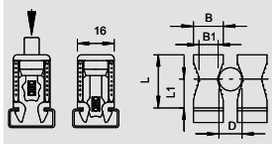
Type	Clamping range D mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2047 5-25 LGR	5-25	Light grey	1000		100	0.390	**2251 25 6**

PS Polystyrene /100 pc.

Series clip without metallic parts, thus protected against corrosion;
Use: lock the clip in the profile rail and fix it by hitting it with a hammer.

Important dimensions, impact clip

D mm	A mm	B mm	B1 mm	L mm	L1 mm
5–25	16	13	8	23	12.5



11-12

Series terminal clip, slot 11–12 mm

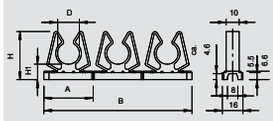
Type	Clamping range D mm	Colour	Number of clips per strip	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2036 4-7 LGR	4-7	Light grey	4	300		25	0.160	**2259 07 9**
2036 10-15 LGR	10-15	Light grey	4	250		25	1.700	**2259 14 1**
2036 18-23 LGR	18-23	Light grey	3	200		25	2.400	**2259 23 0**
2036 22-28 LGR	22-28	Light grey	1	250		25	1.050	**2259 28 1**

PE Polyethylene /100 pc.

Individually separable, for pushing into profile rails.

Important dimensions, series terminal clip

D mm	A mm	B mm	H mm	H1 mm
4–7	12.75	51	18.5	11
10–15	25	100	26.5	9.5
18–23	38.5	115.5	37	12
22–28	51	51	44.5	13.5



Always indicate the item number when ordering.

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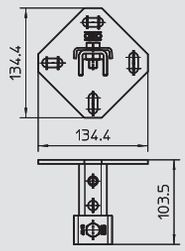
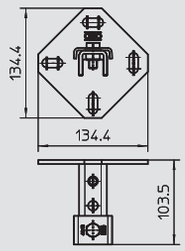


Wall, floor and ceiling bracket with 3 holes

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
WBDHE 41 G	Perforated	134,35x110	5	102		10	77.370	**1123 19 3**
WBDHE 41 FT	Perforated	134,35x110	5	102		10	77.370	**1123 19 1**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

The wall, floor and ceiling bracket can ideally be used as a panel for wall, floor and ceiling mounting.
Also suitable for stand and frame construction in conjunction with the MS 41 mounting rails.

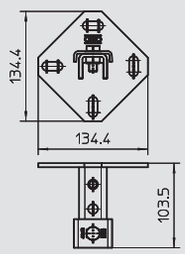


Wall, floor and ceiling bracket with 3 holes V2A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
WBDHE 41 V2A	Perforated	134,35x110	5	102		10	77.370	**1123 19 5**

V2A Stainless steel, grade 304 /100 pc.

The wall, floor and ceiling bracket can ideally be used as a panel for wall, floor and ceiling mounting.
Also suitable for stand and frame construction in conjunction with the MS 41 mounting rails.

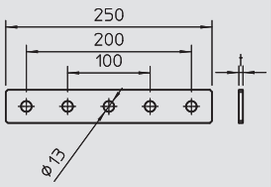


Wall, floor and ceiling bracket with 3 holes V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
WBDHE 41 V4A	Perforated	134,35x110	5	102		10	47.070	**1123 19 7**

V4A Stainless steel, grade 316 Ti /100 pc.

The wall, floor and ceiling bracket can ideally be used as a panel for wall, floor and ceiling mounting.
Also suitable for stand and frame construction in conjunction with the MS 41 mounting rails.

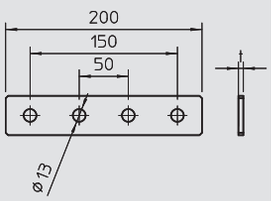


Connection plate with 5 holes

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 5 VP FT	10		10	40.000	**1124 65 1**
GMS 5 VP G	10		10	38.810	**1124 61 1**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

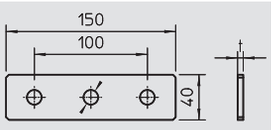


Connection plate with 4 holes

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VP FT	40		10	35.580	**1124 64 9**
GMS 4 VP G	40		10	32.340	**1124 60 9**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Connection plate with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.



Connection plate with 3 holes

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VP FT	80		20	24.010	**1124 64 7**
GMS 3 VP G	80		20	21.200	**1124 60 7**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

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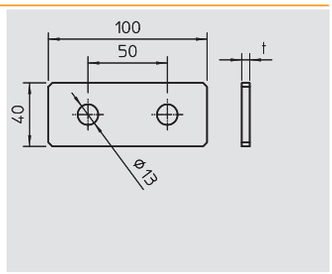
Always indicate the item number when ordering.

Connection plate with 2 holes

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 2 VP FT	40		10	14.000	**1124 64 5**
GMS 2 VP G	40		10	16.170	**1124 60 5**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Connection plate with two holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

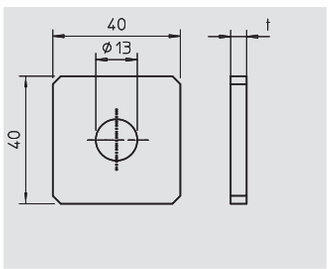


Connection plate with 1 hole

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 1 VP FT	150		10	7.120	**1124 64 3**
GMS 1 VP G	150		10	6.470	**1124 60 3**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.

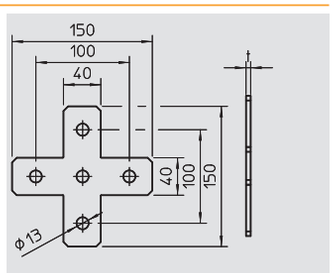


Connection plate, X-shaped

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 5 VP X G	10		10	39.000	**1124 61 7**
GMS 5 VP X FT	10		10	48.000	**1124 65 7**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.

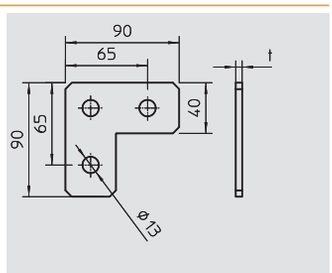


Connection plate, L-shaped

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VP L G	40		10	20.000	**1124 61 3**
GMS 3 VP L FT	40		10	25.000	**1124 65 3**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.

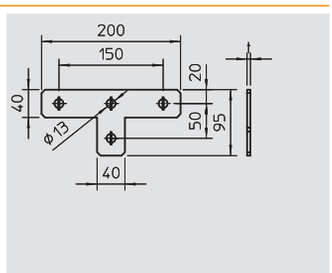


Connection plate, T-shaped

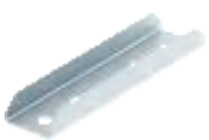
Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VP T G	10		10	40.000	**1124 61 5**
GMS 4 VP T FT	10		10	41.000	**1124 65 5**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Connection plate with four holes for T-shaped connection of profile rails 41 x 41 mm and 41 x 21 mm.



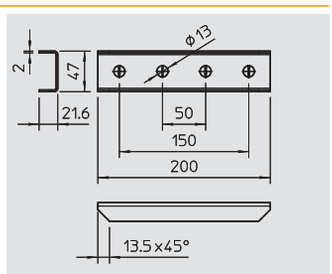
Connector



Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GVMS 4 ASV FT	With continuous perforation 13 mm	20		10	44.040	**1124 64 1**
GVMS 4 ASV G	With continuous perforation 13 mm	20		10	44.040	**1124 60 1**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

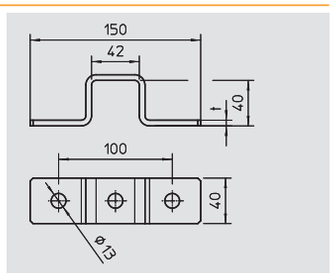


Omega clamp

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 O 4141 G	With continuous perforation 13 mm	10		10	29.830	**1124 63 3**
GMS 3 O 4141 FT	With continuous perforation 13 mm	10		10	35.000	**1124 67 3**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.



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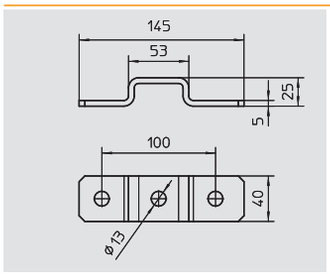
Always indicate the item number when ordering.

Omega clamp

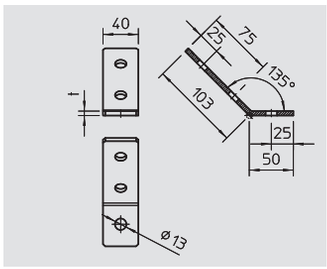


Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 O 4121 G	With continuous perforation 13 mm	40		10	23.550	**1124 63 1**
GMS 3 O 4121 FT	With continuous perforation 13 mm	40		10	26.680	**1124 67 1**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 21 mm.

Mounting bracket, 45° with 3 holes

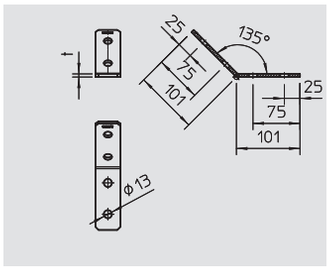


Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VW 45 G	45° bracket	40		10	21.200	**1124 62 7**
GMS 3 VW 45 FT	45° bracket	40		10	24.010	**1124 66 7**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

Mounting bracket, 45° with 4 holes

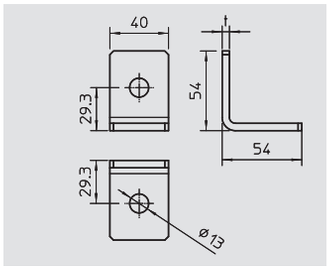


Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VW 45 G	45° bracket	40		10	31.400	**1124 62 9**
GMS 4 VW 45 FT	45° bracket	40		10	32.000	**1124 66 9**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

Mounting bracket, 90° with 2 holes

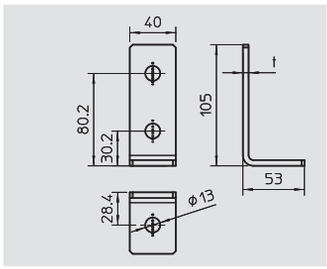


Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 2 VW 90 G	90° bracket	60		10	16.170	**1124 61 9**
GMS 2 VW 90 FT	90° bracket	60		10	14.000	**1124 65 9**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

Mounting bracket, 90° with 3 holes

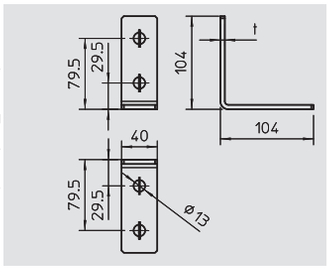


Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VW 90 G	90° bracket	40		10	23.550	**1124 62 1**
GMS 3 VW 90 FT	90° bracket	40		10	25.910	**1124 66 1**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Installation profile with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

Mounting bracket, 90° with 4 holes

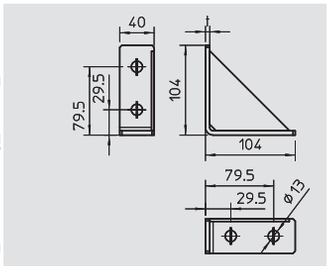


Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VW 90 G	90° bracket	30		10	32.660	**1124 62 3**
GMS 4 VW 90 FT	90° bracket	30		10	32.000	**1124 66 3**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Installation profile with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

Triangular node



Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 KD 90 FT	90° bracket	10		10	48.000	**1124 66 5**
GMS 4 KD 90 G	90° bracket	10		10	42.000	**1124 62 5**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

Reinforced mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

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Always indicate the item number when ordering.

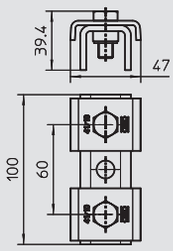
Rail connector SV with 3 holes

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SVE 41 G	Perforated	47x39,4	4	100		10	37.870	**1123 12 4**
SVE 41 FT	Perforated	47x39,4	4	100		10	37.870	**1123 12 1**

St Steel G Electrogalvanised FT Hot-dip galvanised /100 pc.

The rail connector is used to extend the mounting rail MS 41. The connection can be made simply and securely on the construction site or prefabricated in the workshop.
There is a guarantee that there is no weakpoint in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 41, and matching hexagonal bolts included loosely.



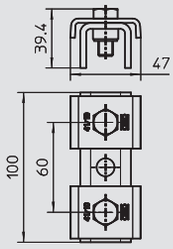
Rail connector SV with 3 holes, V2A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SVE 41 V2A	Perforated	47x39,4	4	100		10	37.870	**1123 12 6**

V2A Stainless steel, grade 304 /100 pc.

The rail connector is used to extend the mounting rail MS 41. The connection can be made simply and securely on the construction site or prefabricated in the workshop.
There is a guarantee that there is no weakpoint in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 41, and matching hexagonal bolts included loosely.



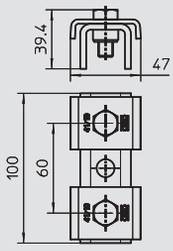
Rail connector SV with 3 holes, V4A

Type	Version	Dimension b x h mm	Material thickness mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
SVE 41 V4A	Perforated	47x39,4	4	100		10	37.870	**1123 12 8**

V4A Stainless steel, grade 316 Ti /100 pc.

The rail connector is used to extend the mounting rail MS 41. The connection can be made simply and securely on the construction site or prefabricated in the workshop.
There is a guarantee that there is no weakpoint in the area of the rail coupling. The static values of the mounting rail apply here.

Scope of delivery:
Retaining plates, type 41, and matching hexagonal bolts included loosely.

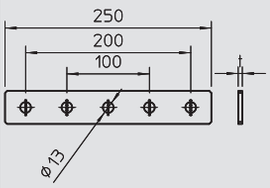


Connection plate with 5 holes V2A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 5 VP V2A	10		10	28.900	**1124 69 1**

V2A Stainless steel, grade 304 /100 pc.

Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

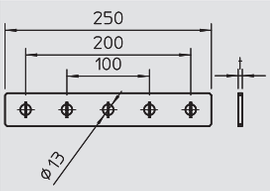


Connection plate with 5 holes V4A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 5 VP V4A	10		10	28.900	**1124 73 1**

V4A Stainless steel, grade 316 Ti /100 pc.

Connection plate with five holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

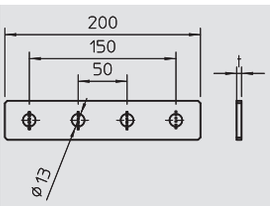


Connection plate with 4 holes V2A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VP V2A	40		10	23.300	**1124 68 9**

V2A Stainless steel, grade 304 /100 pc.

Connection plate with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.



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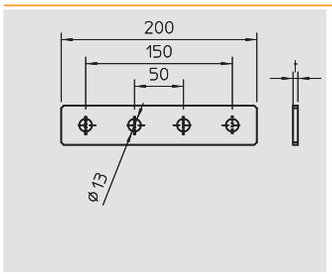
Always indicate the item number when ordering.

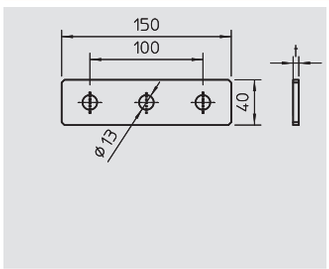


Connection plate with 4 holes V4A

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VP V4A	40	10	23.300	**1124 72 9**

V4A Stainless steel, grade 316 Ti /100 pc.

Connection plate with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

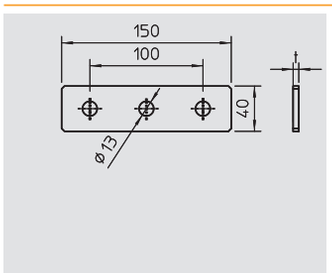


Connection plate with 3 holes V2A

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VP V2A	80	20	17.200	**1124 68 7**

V2A Stainless steel, grade 304 /100 pc.

Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

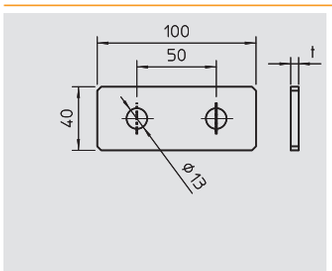


Connection plate with 3 holes V4A

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VP V4A	80	20	17.200	**1124 72 7**

V4A Stainless steel, grade 316 Ti /100 pc.

Connection plate with three holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

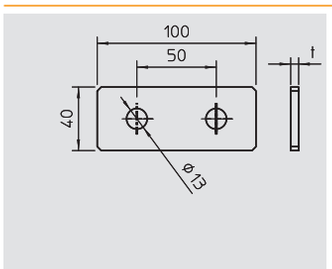


Connection plate with 2 holes V2A

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 2 VP V2A	40	10	11.500	**1124 68 5**

V2A Stainless steel, grade 304 /100 pc.

Connection plate with two holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

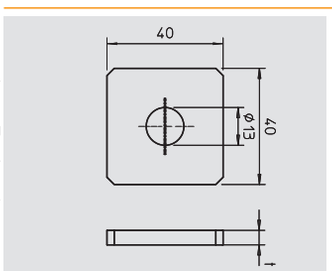


Connection plate with 2 holes V4A

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 2 VP V4A	40	10	11.500	**1124 72 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Connection plate with two holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

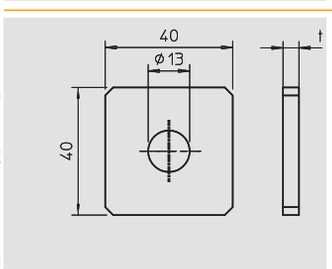


Connection plate with 1 hole V2A

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 1 VP V2A	150	10	4.450	**1124 68 3**

V2A Stainless steel, grade 304 /100 pc.

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.



Connection plate with 1 hole V4A

Type	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 1 VP V4A	150	10	4.450	**1124 72 3**

V4A Stainless steel, grade 316 Ti /100 pc.

Connection plate with lengthwise slot, for example for mounting threaded rods to profile rails 41 x 41 mm and 41 x 21 mm.

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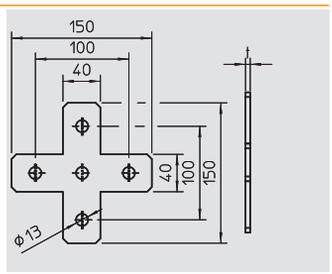
Connection plate, X-shaped V2A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 5 VP X V2A	10		10	29.600	**1124 69 7**

V2A Stainless steel, grade 304 /100 pc.

Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.

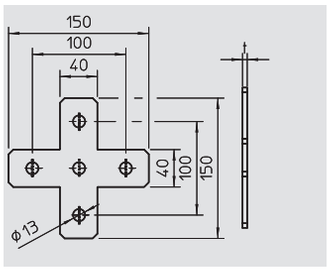


Connection plate, X-shaped V4A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 5 VP X V4A	10		10	29.600	**1124 73 7**

V4A Stainless steel, grade 316 Ti /100 pc.

Connection plate with five holes for cross connection of profile rails 41 x 41 mm and 41 x 21 mm.

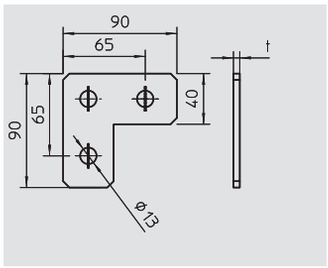


Connection plate, L-shaped V2A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VP L V2A	40		10	15.900	**1124 69 3**

V2A Stainless steel, grade 304 /100 pc.

Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.

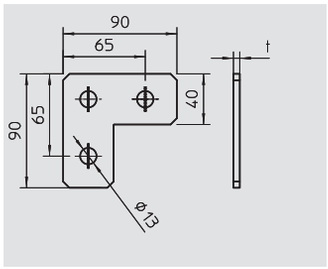


Connection plate, L-shaped V4A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VP L V4A	40		10	15.900	**1124 73 3**

V4A Stainless steel, grade 316 Ti /100 pc.

Connection plate with three holes for angled connection of profile rails 41 x 41 mm and 41 x 21 mm.

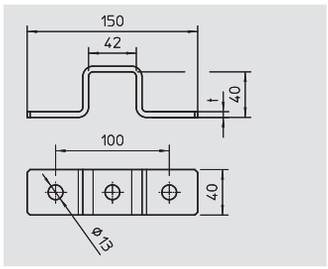


Omega clamp 41 21 V2A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 O 4141 V2A	With continuous perforation 13 mm	10		10	25.400	**1124 71 3**

V2A Stainless steel, grade 304 /100 pc.

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.

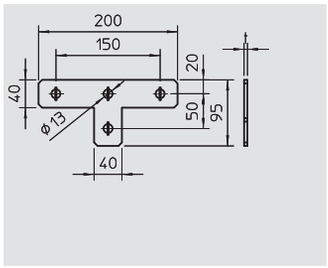


Connection plate, T-shaped V2A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VP T V2A	10		10	30.200	**1124 69 5**

V2A Stainless steel, grade 304 /100 pc.

Connection plate with four holes for T-shaped connection of profile rails 41 x 41 mm and 41 x 21 mm.

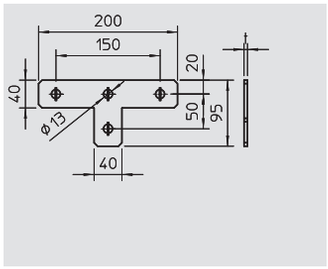


Connection plate, T-shaped V4A

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VP T V4A	10		10	30.200	**1124 73 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Connection plate with four holes for T-shaped connection of profile rails 41 x 41 mm and 41 x 21 mm.



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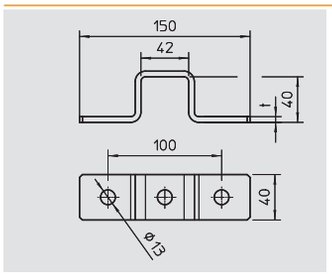
Always indicate the item number when ordering.

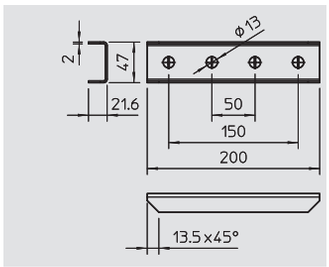


Omega clamp 41 41 V4A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 O 4141 V4A	With continuous perforation 13 mm	10		10	25.400	**1124 75 3**

V4A Stainless steel, grade 316 Ti /100 pc.

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.

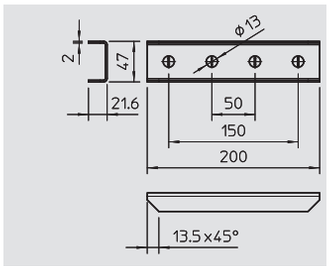


U-shaped connector V2A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GVMS 4 ASV V2A	With continuous perforation 13 mm	60		10	24.900	**1124 68 1**

V2A Stainless steel, grade 304 /100 pc.

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

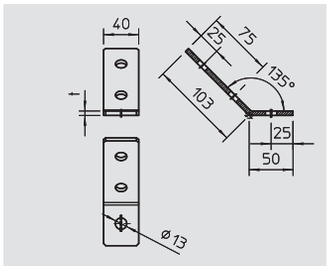


U-shaped connector V4A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GVMS 4 ASV V4A	With continuous perforation 13 mm	60		10	24.900	**1124 71 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Connector gripping from outside with four holes for straight connection of profile rails 41 x 41 mm and 41 x 21 mm.

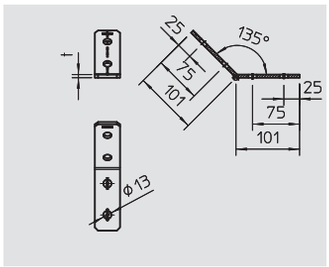


Mounting bracket, 45°, with 3 holes, V2A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VW 45 V2A	45° angle	40		10	17.200	**1124 70 7**

V2A Stainless steel, grade 304 /100 pc.

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

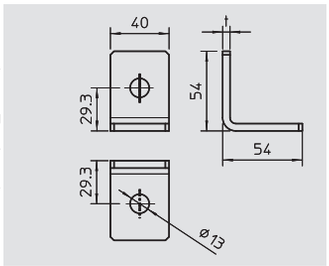


Mounting bracket, 45°, with 4 holes, V2A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VW 45 V2A	45° angle	40		10	23.300	**1124 70 9**

V2A Stainless steel, grade 304 /100 pc.

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

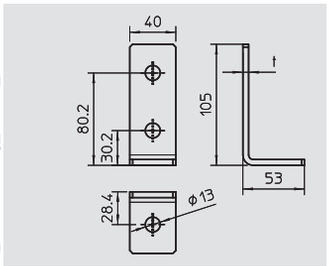


Mounting bracket, 90°, with 2 holes, V2A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 2 VW 90 V2A	90° angle	60		10	11.500	**1124 69 9**

V2A Stainless steel, grade 304 /100 pc.

Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.



Mounting bracket, 90°, with 3 holes, V2A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VW 90 V2A	90° angle	40		10	17.200	**1124 70 1**

V2A Stainless steel, grade 304 /100 pc.

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

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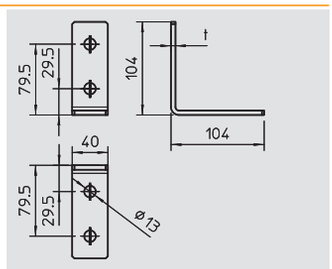
Mounting bracket, 90°, with 4 holes, V2A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VW 90 V2A	90° angle	30		10	23.300	**1124 70 3**

V2A Stainless steel, grade 304 /100 pc.

Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

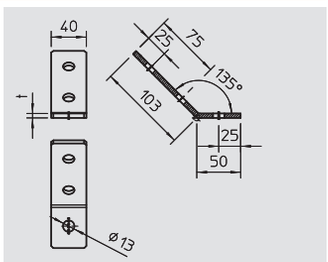


Mounting bracket, 45°, with 3 holes, V4A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VW 45 V4A	45° angle	40		10	17.200	**1124 74 7**

V4A Stainless steel, grade 316 Ti /100 pc.

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

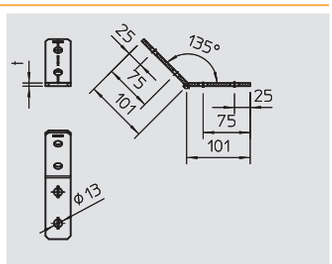


Mounting bracket, 45°, with 4 holes, V4A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VW 45 V4A	45° angle	40		10	23.300	**1124 74 9**

V4A Stainless steel, grade 316 Ti /100 pc.

Mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 45°.

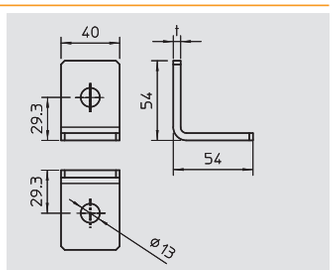


Mounting bracket, 90°, with 2 holes, V4A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 2 VW 90 V4A	90° angle	60		10	11.500	**1124 73 9**

V4A Stainless steel, grade 316 Ti /100 pc.

Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

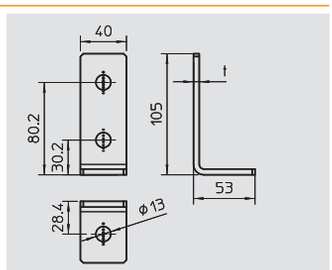


Mounting bracket, 90°, with 3 holes, V4A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 VW 90 V4A	90° angle	40		10	17.200	**1124 74 1**

V4A Stainless steel, grade 316 Ti /100 pc.

Mounting bracket with three holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

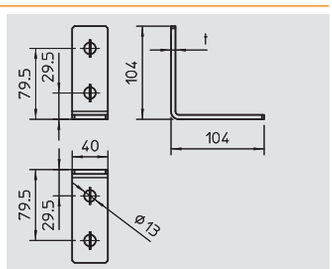


Mounting bracket, 90°, with 4 holes, V4A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 VW 90 V4A	90° angle	30		10	23.300	**1124 74 3**

V4A Stainless steel, grade 316 Ti /100 pc.

Mounting bracket with two holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

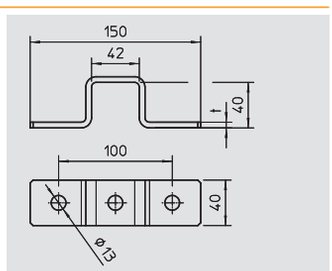


Omega clamp 41 41 V2A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 3 O 4141 V2A	With continuous perforation 13 mm	10		10	25.400	**1124 71 3**

V2A Stainless steel, grade 304 /100 pc.

Fastening clip with 3 holes for cross-wise connection of profile rails 41 x 41 mm.



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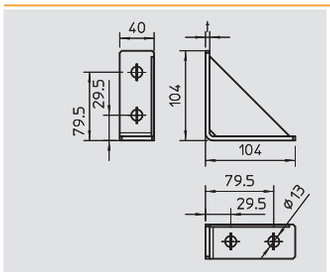
Always indicate the item number when ordering.

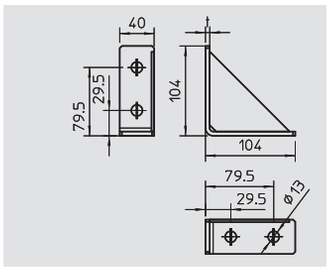


Triangular node, V2A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 KD 90 V2A	90° bracket	10		10	35.000	**1124 70 5**

V2A Stainless steel, grade 304 /100 pc.

Reinforced mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

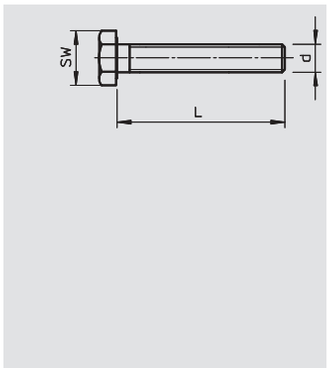


Triangular node, V4A

Type	Version	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
GMS 4 KD 90 V4A	90° bracket	10		10	35.000	**1124 74 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Reinforced mounting bracket with four holes to connect profile rails 41 x 41 mm and 41 x 21 mm at an angle of 90°.

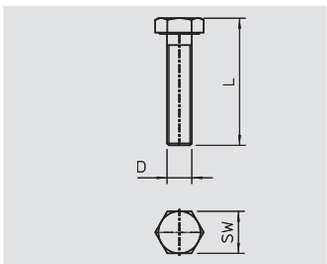


Hexagonal bolt ISO 4017

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm		Pack. pcs	Weight kg/100 pcs.	Item No.
342 M10X20 G	M10 x 20	20	10	17		100	2.320	**3160 20 3**
342 M10X30 G	M10 x 30	30	10	17		100	2.820	**3160 30 0**
342 M10X40 G	M10 x 40	40	10	17		50	3.240	**3160 40 8**
342 M10X50 G	M10 x 50	50	10	17		50	3.820	**3160 50 5**
342 M10X60 G	M10 x 60	60	10	17		50	4.330	**3160 60 2**
342 M12X30 G	M12 x 30	30	12	19		50	4.020	**3162 30 3**
342 M12X40 G	M12 x 40	40	12	19		50	4.740	**3162 40 0**
342 M12X50 G	M12 x 50	50	12	19		50	5.450	**3162 50 8**

St Steel G Electrogalvanised /100 pc.

Hexagonal bolt to ISO 4017 with metric thread

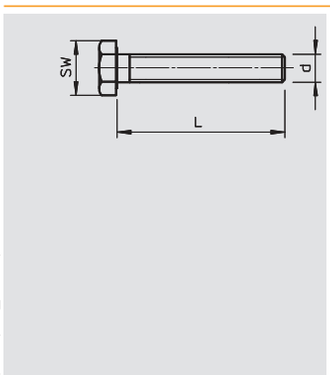


Hexagonal bolt DIN 933 V2A

Type	Dimension L mm	Dimension D mm	SW mm		Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 933 M10x45VA	45	10	17		1	3.370	**3156 04 0**
DIN 933 M12x45VA	45	10	19		1	4.850	**3156 04 2**
DIN 933 M16x50VA	50	16	–		1	10.300	**3156 04 4**

V2A Stainless steel, grade 304 /100 pc.

Hexagonal bolt according to DIN 933 with metric thread.

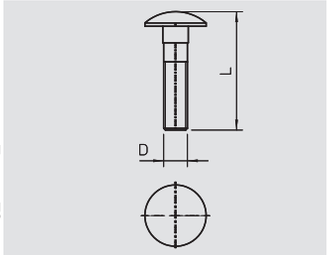


Hexagonal bolt DIN 933 V4A

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm		Pack. pcs	Weight kg/100 pcs.	Item No.
933 M10x20 V4A	M10 x 20	20	10	17		100	2.320	**3156 03 1**
933 M10x30 V4A	M10 x 30	30	10	17		100	2.620	**3156 03 2**
933 M10x40 V4A	M10 x 40	40	10	17		50	3.120	**3156 03 3**
933 M10x50 V4A	M10 x 50	50	10	17		50	3.620	**3156 03 4**
933 M10x60 V4A	M10 x 60	60	10	17		50	4.130	**3156 03 5**
933 M12x30 V4A	M12 x 30	30	12	19		50	3.770	**3156 03 6**
933 M12x40 V4A	M12 x 40	40	–	19		50	4.740	**3156 02 9**
933 M12x50 V4A	M12 x 50	50	–	19		50	5.200	**3156 03 7**

V4A Stainless steel, grade 316 Ti /100 pc.

Hexagonal bolt M6 x 16 mm.



Truss-head bolt with combination nut, V2A

Type	Thread		Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 10x20 VA	M10		1	–	**3175 62 0**
FRSB 10x25 VA	M10		1	–	**3175 62 5**

V2A Stainless steel, grade 304 /100 pc.

Truss-head bolt with square neck and combination nut.

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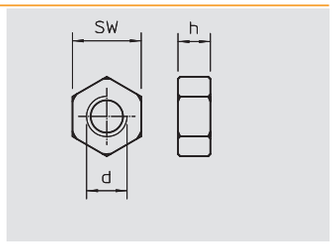
Hexagonal nut DIN 934

Type	Thread	SW mm	Dimension h mm	Dimension d mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M10 G	M10	17	8.4	10	1000	100	1.080	**3400 10 7**
DIN 934 M12 G	M12	19	10.8	12	600	100	1.730	**3400 12 3**

St Steel G Electrogalvanised /100 pc.

Hexagonal nut to DIN 934 with metric thread.

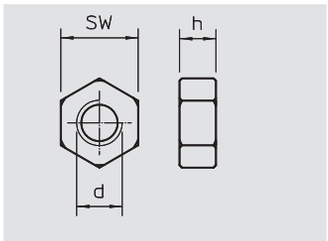


Hexagonal nut DIN 934 V2A

Type	Thread	SW mm	Dimension h mm	Dimension d mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M10 VA	M10	17	8.4	10	1000	100	1.160	**3397 10 6**
DIN 934 M12 VA	M12	19	10.8	12	600	100	1.730	**3397 11 4**

V2A Stainless steel, grade 304 /100 pc.

Hexagonal nut to DIN 934 with metric thread.

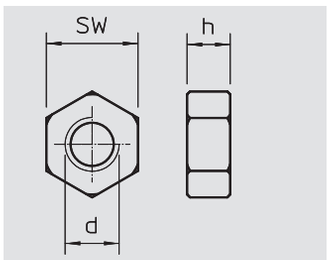


Hexagonal nut DIN 934 V4A

Type	Thread	SW mm	Dimension h mm	Dimension d mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M10 V4A	M10	17	8.4	10	1000	100	1.080	**3400 17 7**
DIN 934 M12 V4A	M12	19	10.8	12	600	100	1.730	**3397 14 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Hexagonal nut to DIN 934 with metric thread.

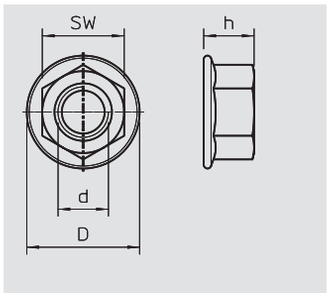


Hexagonal nut with underhead toothing DIN 6923 V2A

Type	Dimension d mm	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6923 M10 VA	10	17	1	—	**3156 12 2**
DIN 6923 M12 VA	12	19	1	—	**3156 12 6**

V2A Stainless steel, grade 304 /100 pc.

Combination nut with pressed washer.

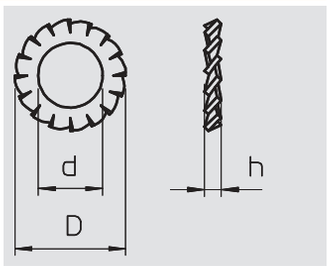


Serrated washer DIN 6798

Type	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6798 A M10 G	10.5	18	2.7	100	0.130	**3404 10 2**
DIN 6798 A M12 G	13	20.5	3	100	0.160	**3404 12 9**

St Steel G Electrogalvanised /100 pc.

Serrated washer to DIN 6798, shape A.

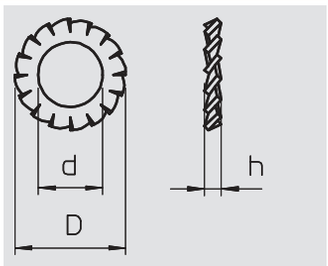


Serrated washer DIN 6798 V4A

Type	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6798 M10 V4A	10.5	18	2.7	100	0.130	**3404 38 2**
DIN 6798 M12 V4A	13	20.5	3	100	0.170	**3404 38 6**

V4A Stainless steel, grade 316 Ti /100 pc.

Serrated washer to DIN 6798, shape A.

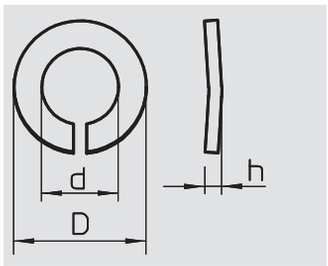


Lock washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 128 A M10 G	M10	10.5	18.1	3	100	0.210	**3405 10 9**
DIN 128 A M12 G	M12	12.5	21.1	3.5	100	0.320	**3405 12 5**

St Steel G Electrogalvanised /100 pc.

Lock washer according to DIN 128, shape A.



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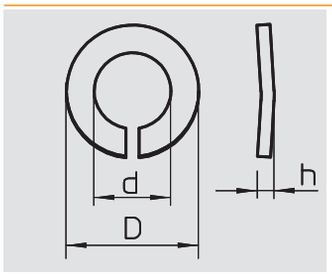
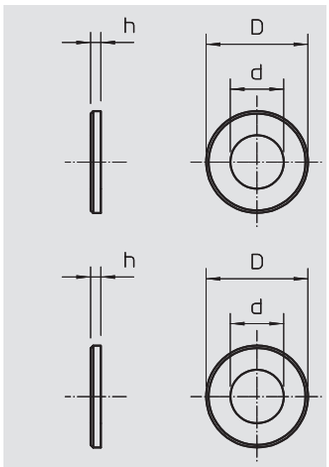


Lock washer V4A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 128 A M10V4A	M10	10.5	18.1	3	100	0.210	**3405 11 1**
DIN 128 A M12V4A	M12	12.5	21.1	3.5	100	0.320	**3405 12 7**

V4A Stainless steel, grade 316 Ti /100 pc.

Lock washer according to DIN 128, shape A.



Washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M10 G	M10	10.5	20	2	3000	100	0.410	**3402 09 6**
966 M12 G	M12	13	24	2.5	2400	100	0.630	**3402 12 6**

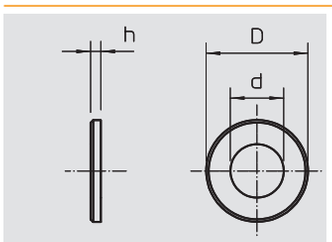
St Steel G Electrogalvanised /100 pc.

Washer according to DIN 125, shape A, for universal use.

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
967 M10 G	M10	11	28	2.5	1400	100	1.020	**3402 22 3**

St Steel G Electrogalvanised /100 pc.

Washer of large outer diameter for universal use.

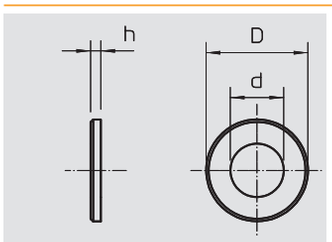


Washer V2A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M10 VA	M10	10.5	20	2	3000	100	0.410	**3402 32 0**
966 M12 VA	M12	13	24	2.5	2400	100	0.630	**3402 33 9**

V2A Stainless steel, grade 304 /100 pc.

Washer according to DIN 125, shape A, for universal use.

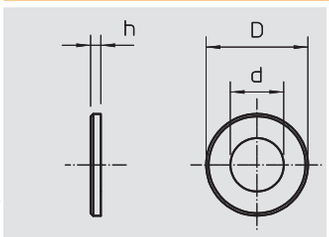


Washer V4A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M10 V4A	M10	10.5	20	2	3000	100	0.410	**3402 32 2**
966 M12 V4A	M12	13	24	2.5	2400	100	0.630	**3402 34 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Washer according to DIN 125, shape A, for universal use.

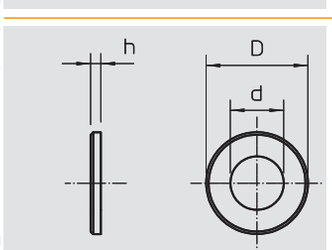


Large washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
964 M8 G20 G	M8	8.4	20	1.5	100	0.240	**3403 12 2**
964 M8 G25 G	M8	8.4	25	1.2	100	0.370	**3403 13 0**
964 M10 G30 G	M10	10.5	30	1.5	100	0.590	**3403 16 5**

St Steel G Electrogalvanised /100 pc.

Washer of particularly large outer diameter.



Large washer, V2A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
964 M8 G20 V2A	M8	8.4	20	1.5	100	0.240	**3403 12 5**
964 M8 G25 V2A	M8	8.4	25	1.2	100	0.370	**3403 13 5**
964 M8 G40 V2A	M8	8.5	40	1.5	100	0.370	**3403 14 5**
964 M10 G30 V2A	M10	10.5	30	1.5	100	0.590	**3403 15 5**
964 M10 G40 V2A	M10	10.5	40	1.5	100	0.590	**3403 17 5**

V2A Stainless steel, grade 304 /100 pc.

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.

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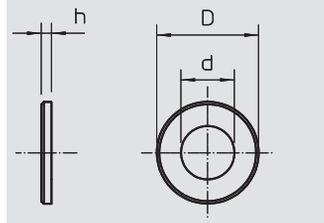
Always indicate the item number when ordering.

Large washer, V4A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm		Pack. pcs	Weight kg/100 pcs.	Item No.
964 M8 G20 V4A	M8	8.4	20	1.5		100	0.240	**3403 12 7**
964 M8 G25 V4A	M8	8.4	25	1.2		100	0.370	**3403 13 7**
964 M10 G30 V4A	M10	10.5	30	1.5		100	0.590	**3403 16 3**
964 M10 G40 V4A	M10	10.5	40	1.5		100	0.590	**3403 17 7**

V4A Stainless steel, grade 316 Ti /100 pc.

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.



Always indicate the item number when ordering.

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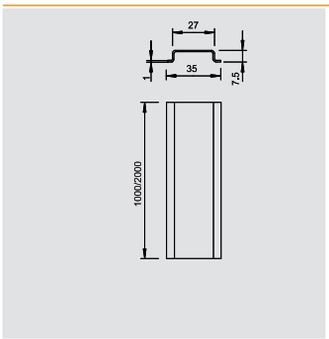
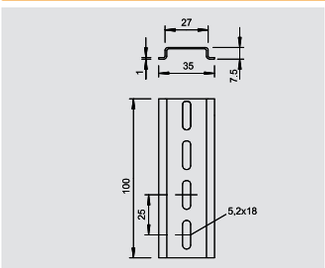


Hat profile rail, unperforated

Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2069 2M BK	Unperforated	1	2000	50		34.000	**1115 61 8**
2069 3M BK	Unperforated	1	3000	–		34.400	**1115 85 5**
2069 1M FS	Unperforated	1	1000	25		34.000	**1115 67 7**
2069 2M FS	Unperforated	1	2000	50		34.000	**1115 62 6**
2069 1M GTP	Unperforated	1	1000	25		34.000	**1115 68 5**
2069 2M GTP	Unperforated	1	2000	50		34.000	**1115 65 0**

St Steel FS Strip-galvanised Bright GTP Electrogalvanised, transparently passivated /100 m

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

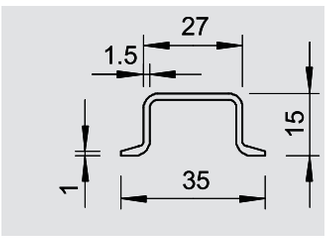


Hat profile rail, perforated

Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2069 2M GTPL	Perforated	1	2000	50		33.000	**1115 66 9**
2069 L 2M FS	Perforated	1	2000	–		34.000	**1115 80 4**

St Steel FS Strip-galvanised GTP Electrogalvanised, transparently passivated /100 m

Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

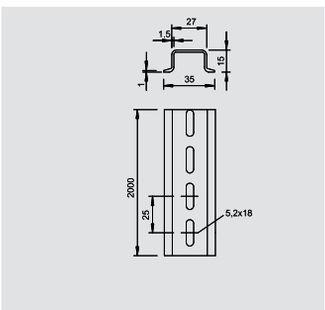


Hat profile rail, unperforated

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	**1115 42 1**

St Steel GTP Electrogalvanised, transparently passivated /100 m

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

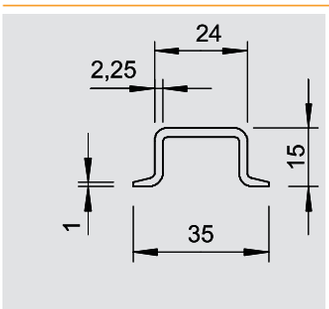


Hat profile rail, perforated

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		66.000	**1115 45 6**

St Steel GTP Electrogalvanised, transparently passivated /100 m

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

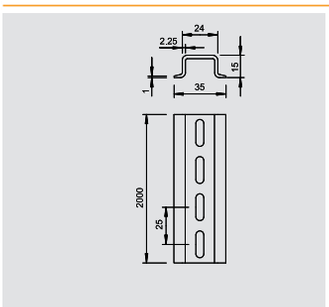


Hat profile rail, unperforated

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	**1115 55 3**

St Steel GTP Electrogalvanised, transparently passivated /100 m

Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).



Hat profile rail, perforated

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	**1115 59 6**

St Steel GTP Electrogalvanised, transparently passivated /100 m

Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).

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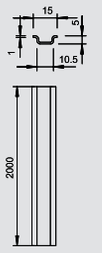
Hat profile and support rail

Hat profile rail

Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
46277 GTP	Unperforated	1	2000	50		12.400	**1115 33 2**
46277 GTPL	Perforated	1	2000	50		12.400	**1115 35 9**

St Steel GTP Electrogalvanised, transparently passivated /100 m

Hat profile rail 15 x 5 mm to DIN EN 60715 (formerly DIN EN 50045).

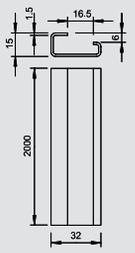


Support rail

Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2064 GTP 2M	Unperforated	1.5	2000	20		70.000	**1115 05 7**

St Steel GTP Electrogalvanised, transparently passivated /100 m

G rail G32 to DIN EN 60715 (previously DIN EN 50035).

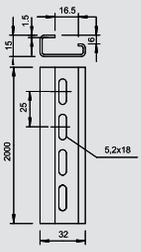


Support rail

Type	Version	Material thickness mm	Length mm	Bundle m		Weight kg/100 m	Item No.
2064 GTPL 2M	Perforated	1.5	2000	20		69.000	**1115 06 5**

St Steel GTP Electrogalvanised, transparently passivated /100 m

G rail G32 to DIN EN 60715 (previously DIN EN 50035).

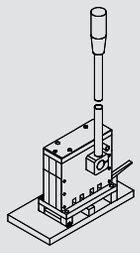


Hat and support rail cutting unit

Type		Pack. pcs	Weight kg/100 pcs.	Item No.
HTS 35		1	2000.000	**1125 03 6**

/pc.

With the HTS 35 hat and support rail cutting device, you can cut the four most common hat and support rail profiles (types 2069..., 46277... and 2064...) to fit and without burring in accordance with DIN 50022 and DIN 50035.



Always indicate the item number when ordering.

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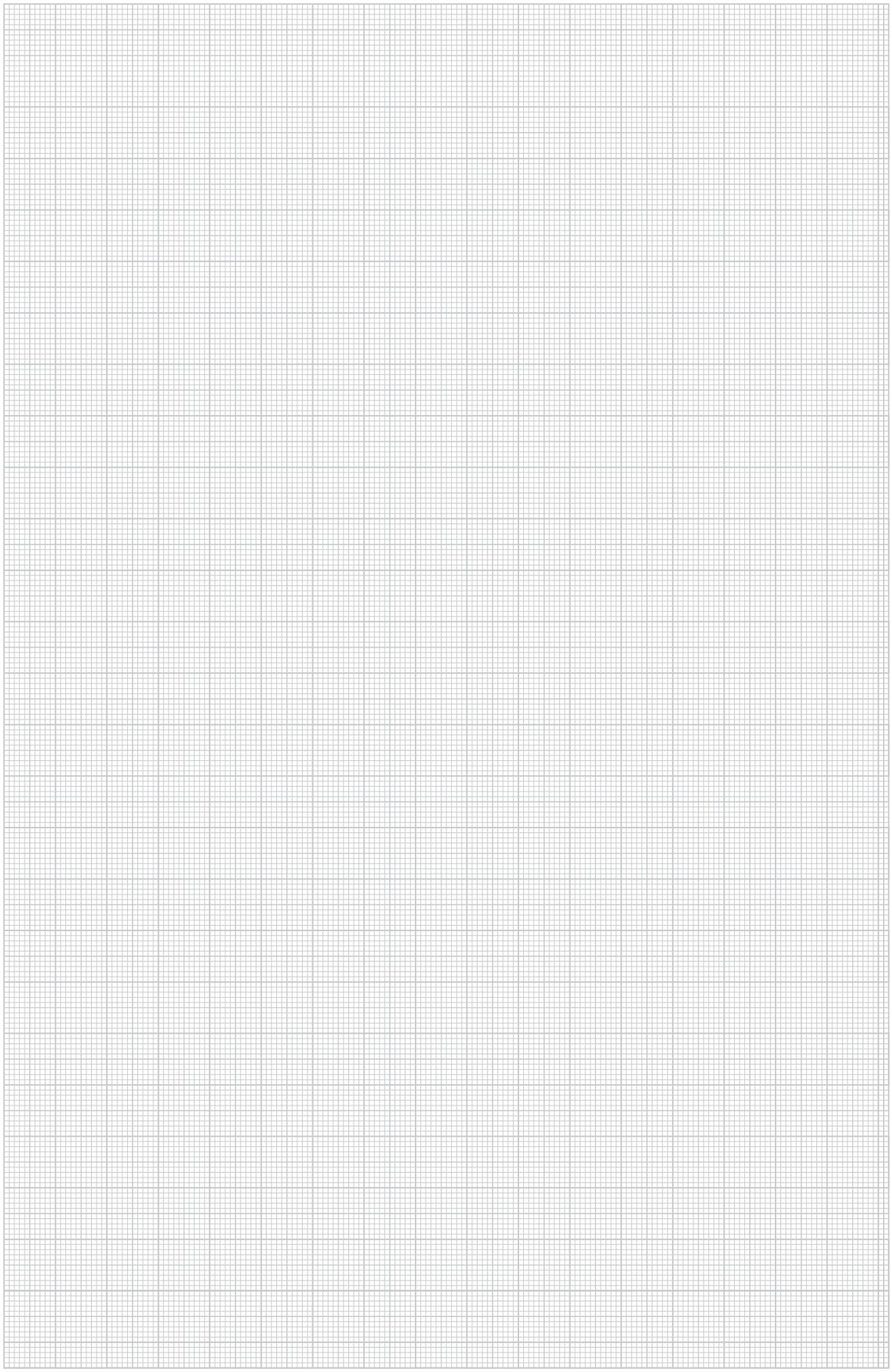

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BBS clamp clip systems

	Clamp clips, N base	With plastic pressure trough With metal pressure trough With screen connection	394 396 396
	Clamp clips, hammer-head base	With plastic pressure trough With metal pressure trough Fastening earthing strips Fastening pipes	397 401 403 403
	Clamp clips, U base	With plastic pressure trough With metal pressure trough	404 406
	Fastening to flat steel	With plastic pressure trough With metal pressure trough	408 410
	Fastening to angular steel	With plastic pressure trough	411
	Clamp clip, special application	Fastening to round profiles / pipes Hammer-head base, 3x single-wire connection U base, 3x single-wire connection Bundle clip	413 413 414 414
	Clamp clips, system accessories	Counter-trough Double trough	415 416

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Clamp clip, single, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056N 12 FT	8-12		100	2.500	**1163 12 4**
2056N 16 FT	12-16		100	2.750	**1163 16 7**
2056N 22 FT	16-22		100	3.100	**1163 22 1**
2056N 28 FT	22-28		100	4.600	**1163 28 0**
2056N 34 FT	28-34		100	5.900	**1163 34 5**
2056N 40 FT	34-40		100	6.300	**1163 39 6**
2056N 46 FT	40-46		100	7.650	**1163 46 9**
2056N 52 FT	46-52		100	8.750	**1163 52 3**
2056N 58 FT	52-58		100	11.000	**1163 58 2**
2056N 64 FT	58-64		100	12.100	**1163 64 7**
2056N 70 FT	64-70		50	13.550	**1163 70 1**

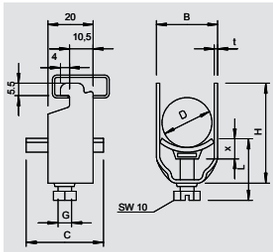
St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width.
Clip and bolt made of hot-dip galvanised steel.
Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	20	16	34	M6	1.5	5	34	34
12 - 16	20	20	34	M6	1.5	5	38	34
16 - 22	20	27	34	M6	1.5	5	44	34
22 - 28	20	33	34	M6	2	5	51	34
28 - 34	20	39	34	M8	2	5.5	59	37.5
34 - 40	20	45	34	M8	2	5.5	66	37.5
40 - 46	20	51	40	M8	2	5.5	72	37.5
46 - 52	20	57	40	M8	2	6.5	79	37.5
58 - 64	23	70	40	M8	2.5	6.5	92	45.5
52 - 58	23	64	40	M8	2.5	6.5	86	45.5
64 - 70	23	76	40	M8	2.5	6.5	99	45.5



Clamp clip, double, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056N 2 12 FT	8-12		50	3.500	**1164 12 0**
2056N 2 16 FT	12-16		50	3.850	**1164 16 3**
2056N 2 22 FT	16-22		50	4.650	**1164 22 8**
2056N 2 28 FT	22-28		50	7.500	**1164 28 7**
2056N 2 34 FT	28-34		50	10.050	**1164 34 1**
2056N 2 40 FT	34-40		50	10.050	**1164 40 6**
2056N 2 46 FT	40-46		50	11.050	**1164 46 5**
2056N 2 52 FT	46-52		50	12.400	**1164 51 1**
2056N 2 58 FT	52-58		50	15.600	**1164 58 9**

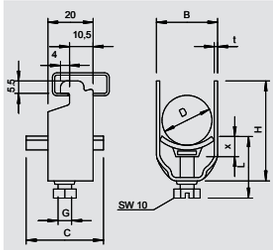
St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width.
Clip and bolt made of hot-dip galvanised steel.
Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	20	16	34	M6	1.5	5	49	47
12 - 16	20	20	34	M6	1.5	5	57	47
16 - 22	20	27	34	M6	1.5	5	70	59
22 - 28	20	33	34	M6	2	5	84	47
28 - 34	20	39	34	M8	2	5.5	97	56.5
34 - 40	20	45	34	M8	2	5.5	110	56.5
40 - 46	20	51	40	M8	2	5.5	124	56.5
46 - 52	20	57	40	M8	2	6.5	137	57.5
52 - 58	23	64	40	M8	2.5	6.5	150	57.5



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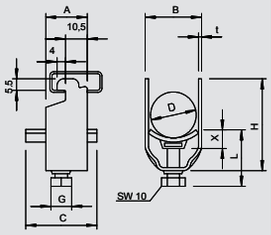
Always indicate the item number when ordering.



Clamp clip, single, plastic pressure trough

N | 11-12 | Fluor Chlor Brom HALOGENFREE

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056N 12 VA	8-12		100	2.700	**1166 01 8**
2056N 16 VA	12-16		100	3.800	**1166 02 6**
2056N 22 VA	16-22		100	4.400	**1166 03 4**
2056N 28 VA	22-28		100	6.500	**1166 04 2**
2056N 34 VA	28-34		100	8.000	**1166 05 0**
2056N 40 VA	34-40		100	8.300	**1166 06 9**
2056N 46 VA	40-46		100	11.700	**1166 07 7**
2056N 52 VA	46-52		100	11.150	**1166 08 5**
2056N 58 VA	52-58		100	15.200	**1166 09 3**
2056N 64 VA	58-64		100	15.250	**1166 10 7**

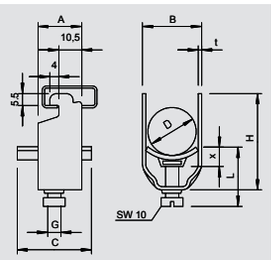
V2A Stainless steel, grade 304 /100 pc.

Suitable for all C profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width;
stainless steel clip and bolt, polypropylene pressure trough, halogen-free, light grey RAL 7035.

(VA pressure troughs on request).

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	20	16	34	M6	1.5	5	34	34
12–16	20	20	34	M6	1.5	5	38	34
16–22	20	27	34	M6	1.5	5	44	34
22–28	20	33	34	M6	2	5	51	34
28–24	20	39	34	M8	2	5.5	59	37.5
34–40	20	45	34	M8	2	5.5	66	37.5
40–46	20	51	40	M8	2	5.5	72	37.5
46–52	20	57	34	M8	2	6.5	79	38.5
58–64	23	70	40	M8	2.5	6.5	92	45.5
52–58	23	64	40	M8	2.5	6.5	86	45.5



Clamp clip, single, plastic pressure trough

N | 11-12 | Fluor Chlor Brom HALOGENFREE

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056N 12 ALU	8-12		100	0.900	**1183 60 5**
2056N 16 ALU	12-16		100	1.050	**1183 61 3**
2056N 22 ALU	16-22		100	1.200	**1183 62 1**
2056N 28 ALU	22-28		100	1.700	**1183 64 8**
2056N 34 ALU	28-34		100	2.200	**1183 65 6**
2056N 40 ALU	34-40		100	2.350	**1183 66 4**
2056N 46 ALU	40-46		100	2.850	**1183 67 2**
2056N 52 ALU	46-52		100	3.300	**1183 68 0**
2056N 58ALU	52-58		100	4.100	**1183 69 9**

Al Aluminium /100 pc.

Suitable for all profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width; aluminium ALMg3 clip and bolt, polypropylene pressure trough, halogen-free, light grey RAL 7035.

(Metal pressure troughs on request).

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–16	20	16	34	M6	1.5	5	34	34
12–16	20	20	34	M6	1.5	5	38	34
16–22	20	27	34	M6	1.5	5	44	34
22–28	20	33	34	M6	2	5	51	34
28–34	20	39	34	M8	2	5.5	59	37.5
34–40	20	45	34	M8	2	5.5	66	37.5
40–46	20	51	40	M8	2	5.5	72	37.5
46–52	20	57	40	M8	2	6.5	79	38.5
52–58	23	64	40	M8	2.5	6.5	86	45.5

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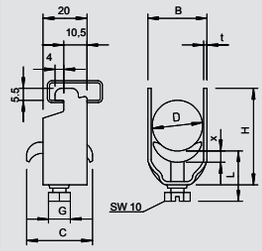
N 11-12

Clamp clip, single, metal pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056N M 12 FT	8-12		100	2.450	**1155 40 7**
2056N M 16 FT	12-16		100	2.800	**1155 41 5**
2056N M 22 FT	16-22		100	3.150	**1155 42 3**
2056N M 28 FT	22-28		100	4.900	**1155 43 1**
2056N M 34 FT	28-34		100	6.400	**1155 45 8**
2056N M 40 FT	34-40		100	7.000	**1155 46 6**
2056N M 46 FT	40-46		100	8.500	**1155 47 4**
2056N M 52 FT	46-52		100	9.150	**1155 48 2**
2056N M 58 FT	52-58		100	12.100	**1155 49 0**

St Steel FT Hot-dip galvanised /100 pc.



Suitable for all C profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width; metal troughs have strongly rounded edges on all sides, so that there is no risk of cable damage.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Important dimensions, clamp clip

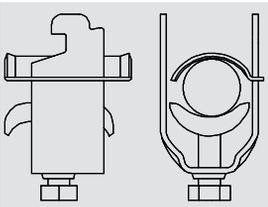
D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	20	16	30	M6	1.5	3.5	34	32.5
12–16	20	20	30	M6	1.5	3.5	38	32.5
16–22	20	27	30	M6	1.5	4.5	44	33.5
22–28	20	33	30	M6	2	4.5	51	33.5
28–34	20	39	35	M8	2	4.5	59	37
34–40	20	45	35	M8	2	5	66	37
40–46	20	51	35	M8	2	5	72	37
46–52	20	57	35	M8	2	5	79	37
52–58	23	64	35	M8	2.5	5	86	37

11-12

Clamp clip, screen connection

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056N SAS 8 VA	4-8		100	2.900	**1167 00 6**
2056N SAS 12 VA	8-12		100	3.700	**1167 01 4**
2056N SAS 16 VA	12-16		100	4.200	**1167 02 2**
2056N SAS 22 VA	16-22		100	4.850	**1167 03 0**
2056N SAS 28 VA	22-28		100	6.600	**1167 04 9**

V2A Stainless steel, grade 304 /100 pc.



For electrical connection of the braided shield of stripped cables.
Delivery complete with counter-trough; pressure trough and VA counter-trough.
A cable screen for protection against electromagnetic influences, can also contribute towards equipotential bonding as both ends are connected to the reference potential.

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
4–8	20	12	28	M6	1.5	3.25	30	32.5
8–12	20	16	34	M6	1.5	5	34	34
12–16	20	20	34	M6	1.5	5	38	34
16–22	20	27	34	M6	1.5	5	44	34
22–28	20	33	34	M6	2	5	51	34

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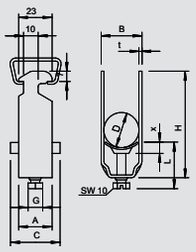


Clamp clip, single, plastic pressure trough

H 16-17 Fluor Chlor Brom HALOGENFREE

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 12 FT	8-12		100	3.540	**1160 12 5**
2056 16 FT	12-16		100	3.820	**1160 16 8**
2056 22 FT	16-22		100	4.510	**1160 22 2**
2056 28 FT	22-28		100	6.240	**1160 28 1**
2056 34 FT	28-34		100	7.680	**1160 34 6**
2056 40 FT	34-40		100	8.260	**1160 40 0**
2056 46 FT	40-46		100	10.900	**1160 45 1**
2056 52 FT	46-52		100	11.900	**1160 52 4**
2056 58 FT	52-58		100	14.300	**1160 58 3**
2056 64 FT	58-64		100	15.600	**1160 64 8**
2056 70 FT	64-70		50	18.200	**1160 70 2**
2056 76 FT	70-76		25	20.600	**1160 76 1**
2056 82 FT	76-82		25	22.000	**1160 82 6**
2056 90 FT	82-90		25	26.200	**1160 90 7**
2056 100 FT	90-100		25	27.800	**1160 99 0**

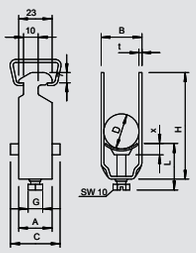
St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Hot-dip galvanised steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.2	5	40	34
12 - 16	23	20	34	M6	1.5	5	44	34
16 - 22	23	27	34	M6	1.5	5	50	34
22 - 28	23	33	34	M6	2	5	58	34
28 - 34	23	33	34	M8	2	5	58	34
34 - 40	23	45	34	M8	2	5.5	72	37.5
40 - 46	23	51	40	M8	2	5.5	79	44.5
46 - 52	23	57	40	M8	2	5.5	79	44.5
64 - 70	25	76	40	M8	2.5	6.5	106	45.5
52 - 58	23	64	40	M8	2.5	6.5	93	45.5
70 - 76	25	82	40	M8	2.5	6.5	114	45.5
76 - 82	25	88	40	M8	2.5	6.5	121	45.5
82 - 90	25	97	40	M8	3	6.5	130	57.5
58 - 64	23	70	40	M8	2.5	6.5	99	45.5
90 - 100	25	107	40	M8	3	6.5	140	57.5



Clamp clip, double, plastic pressure trough

H 16-17 Fluor Chlor Brom HALOGENFREE

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 2 12 FT	8-12		50	4.100	**1161 12 1**
2056 2 16 FT	12-16		50	4.650	**1161 16 4**
2056 2 22 FT	16-22		50	5.150	**1161 22 9**
2056 2 28 FT	22-28		50	7.700	**1161 28 8**
2056 2 34 FT	28-34		50	10.200	**1161 34 2**
2056 2 40 FT	34-40		50	11.450	**1161 40 7**
2056 2 46 FT	40-46		50	14.950	**1161 46 6**
2056 2 52 FT	46-52		50	16.700	**1161 52 0**
2056 2 58 FT	52-58		50	21.400	**1161 57 1**
2056 2 64 FT	58-64		50	24.250	**1161 64 4**

St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Hot-dip galvanised steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.5	5	52	34
12 - 16	23	20	34	M6	1.5	5	61	34
16 - 22	23	27	34	M6	1.5	5	73	47
22 - 28	23	33	34	M6	2	5	87	47
28 - 34	23	39	34	M8	2	5.5	101	44.5
34 - 40	23	45	34	M8	2	5.5	114	44.5
40 - 46	23	51	34	M8	2	5.5	129	44.5
46 - 52	23	57	34	M8	2	6.5	142	45.5
58 - 64	23	70	40	M8	2.5	6.5	167	45.5
52 - 58	23	64	34	M8	2.5	6.5	154	45.5

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H 16-17 Fluor Chlor Brom HALOGENFREE

Clamp clip, triple, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 3 12 FT	8-12		50	4.900	**1162 12 8**
2056 3 16 FT	12-16		50	6.200	**1162 16 0**
2056 3 22 FT	16-22		50	7.100	**1162 22 5**
2056 3 28 FT	22-28		50	10.650	**1162 28 4**
2056 3 34 FT	28-34		50	13.100	**1162 34 9**
2056 3 40 FT	34-40		50	14.350	**1162 40 3**
2056 3 46 FT	40-46		50	19.800	**1162 46 2**

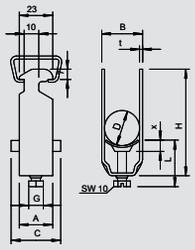
St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Hot-dip galvanised steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.2	5	70	47
12 - 16	23	20	34	M6	1.5	5	82	47
16 - 22	23	27	34	M6	1.5	5	101	47
22 - 28	23	33	34	M6	2	5	121	47
28 - 34	23	39	34	M8	2	5.5	142	56.5
34 - 40	23	45	34	M8	2	5.5	162	56.5
40 - 46	23	51	40	M8	2	5.5	184	56.5



H 16-17 Fluor Chlor Brom HALOGENFREE

Clamp clip, single, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 12 ALU	8-12		100	0.750	**1183 20 6**
2056 16 ALU	12-16		100	0.900	**1183 21 4**
2056 22 ALU	16-22		100	1.050	**1183 22 2**
2056 28 ALU	22-28		100	1.500	**1183 23 0**
2056 34 ALU	28-34		100	2.300	**1183 24 9**
2056 40 ALU	34-40		100	2.700	**1183 25 7**
2056 46 ALU	40-46		100	3.600	**1183 26 5**
2056 52 ALU	46-52		100	3.900	**1183 27 3**
2056 58 ALU	52-58		100	4.200	**1183 28 1**
2056 64 ALU	58-64		100	4.500	**1183 30 3**
2056 70 ALU	64-70		50	5.400	**1183 31 1**
2056 76 ALU	70-76		25	5.850	**1183 33 8**

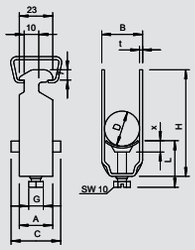
Al Aluminium /100 pc.

Suitable for all C profile rails with 16–17 mm slot width; aluminium ALMg 3 clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

(Metal pressure troughs on request.)

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.5	5	40	34
12 - 16	23	20	34	M6	1.5	5	44	34
16 - 22	23	27	34	M6	1.5	5	50	34
22 - 28	23	33	34	M6	2	5	58	34
28 - 34	23	39	34	M8	2	5.5	66	37.5
34 - 40	23	45	34	M8	2	5.5	72	37.5
40 - 46	23	51	40	M8	2	5.5	79	44.5
46 - 52	23	57	40	M8	2	6.5	86	45.5
64 - 70	25	76	40	M8	2.5	6.5	106	45.5
58 - 64	23	70	40	M8	2.5	6.5	99	45.5
70 - 76	23	82	40	M8	2.5	6.5	114	45.5
52 - 58	23	64	40	M8	2.5	6.5	93	45.5



Always indicate the item number when ordering.

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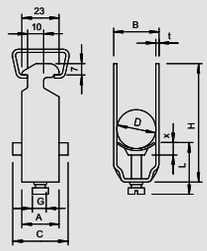


Clamp clip, double, plastic pressure trough

H 16-17 Fluor Chlor Brom HALOGENFREE

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 2 12 ALU	8-12		50	1.000	**1183 38 9**
2056 2 16 ALU	12-16		50	1.250	**1183 39 7**
2056 2 22 ALU	16-22		50	1.500	**1183 40 0**
2056 2 28 ALU	22-28		50	2.000	**1183 41 9**
2056 2 34 ALU	28-34		50	3.200	**1183 42 7**
2056 2 40 ALU	34-40		50	3.750	**1183 43 5**
2056 2 46 ALU	40-46		50	4.850	**1183 44 3**
2056 2 52 ALU	46-52		50	5.300	**1183 45 1**
2056 2 58 ALU	52-58		50	6.000	**1183 47 8**

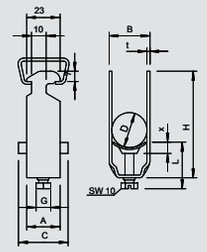
Al Aluminium /100 pc.

Suitable for all C profile rails with 16–17 mm slot width; aluminium ALMg 3 clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

(Metal pressure troughs on request.)

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.5	5	52	34
12 - 16	23	20	34	M6	1.5	5	61	34
16 - 22	23	27	34	M6	1.5	5	73	47
22 - 28	23	33	34	M6	2	5	87	47
28 - 34	23	39	34	M8	2	5.5	101	44.5
34 - 40	23	45	34	M8	2	5.5	114	44.5
40 - 46	23	51	40	M8	2	5.5	129	44.5
46 - 52	23	57	40	M8	2	6.5	142	45.5
52 - 58	23	64	40	M8	2.5	6.5	93	45.5



Clamp clip, triple, plastic pressure trough

H 16-17 Fluor Chlor Brom HALOGENFREE

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 3 22 ALU	16-22		50	2.050	**1183 52 4**
2056 3 28 ALU	22-28		50	2.900	**1183 53 2**
2056 3 34 ALU	28-34		50	4.200	**1183 54 0**

Al Aluminium /100 pc.

Suitable for all C profile rails with 16–17 mm slot width; aluminium ALMg 3 clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

(Metal pressure troughs on request.)

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
16–22	23	27	34	M6	1.5	5	101	34
22–28	23	33	34	M6	2	5	121	47
28–34	23	39	34	M8	2	5.5	142	56.5

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Clamp clip, single, plastic pressure trough

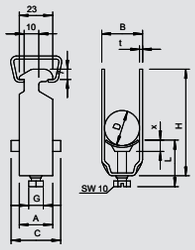
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 12 VA	8-12		100	3.300	**1159 51 8**
2056 16 VA	12-16		100	3.600	**1159 52 6**
2056 22 VA	16-22		100	4.200	**1159 53 4**
2056 28 VA	22-28		100	6.500	**1159 54 2**
2056 34 VA	28-34		100	7.400	**1159 55 0**
2056 40 VA	34-40		100	8.000	**1159 56 9**
2056 46 VA	40-46		100	10.900	**1159 57 7**
2056 52 VA	46-52		100	11.400	**1159 58 5**
2056 58 VA	52-58		100	14.500	**1159 59 3**
2056 64 VA	58-64		100	15.600	**1159 60 7**
2056 70 VA	64-70		50	18.200	**1159 61 5**
2056 76 VA	70-76		25	20.800	**1159 62 3**

V2A Stainless steel, grade 304 /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Clip and bolt.
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.5	5	40	34
12 - 16	23	20	34	M6	1.5	5	44	34
16 - 22	23	27	34	M6	1.5	5	50	34
22 - 28	23	33	34	M6	2	5	58	34
28 - 34	23	39	34	M8	2	5.5	66	37.5
34 - 40	23	45	34	M8	2	5.5	72	37.5
40 - 46	23	51	34	M8	2	5.5	79	44.5
46 - 52	23	57	40	M8	2	6.5	86	45.5
52 - 58	23	64	40	M8	2.5	6.5	93	45.5
70 - 76	25	82	40	M8	2.5	6.5	114	45.5
58 - 64	23	70	40	M8	2.5	6.5	99	45.5
64 - 70	25	76	40	M8	2.5	6.5	106	45.5



Clamp clip, double, plastic pressure trough

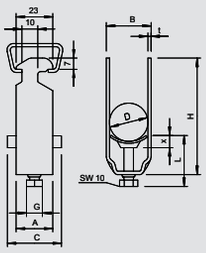
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 2 22 VA	16-22		50	5.150	**1161 82 2**
2056 2 28 VA	22-28		50	7.700	**1161 83 0**
2056 2 34 VA	28-34		50	10.200	**1161 84 9**
2056 2 40 VA	34-40		50	11.450	**1161 85 7**
2056 2 46 VA	40-46		50	14.950	**1161 86 5**
2056 2 52 VA	46-52		50	16.700	**1161 87 3**
2056 2 58 VA	52-58		50	21.400	**1161 88 1**
2056 2 64 VA	58-64		50	24.250	**1161 90 3**

V2A Stainless steel, grade 304 /100 pc.

Suitable for all C profile rails with slot width 16–17 mm; stainless steel clip and bolt, polypropylene pressure trough, halogen-free, light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
16–22	23	27	34	M6	1.5	5	73	47
22–28	23	33	34	M6	2	5	87	47
28–34	23	39	34	M8	2	5.5	101	44.5
34–40	23	45	34	M8	2	5.5	114	44.5
40–46	23	51	40	M8	2	5.5	129	44.5
46–52	23	57	40	M8	2	6.5	142	45.5
52–58	23	64	40	M8	2.5	6.5	154	45.5
58–64	23	70	40	M8	2.5	6.5	167	45.5



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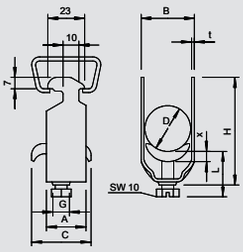


Clamp clip, single, metal pressure trough

H 16-17

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 M 12 FT	8-12		100	3.200	**1156 00 4**
2056 M 16 FT	12-16		100	3.500	**1156 01 2**
2056 M 22 FT	16-22		100	4.400	**1156 02 0**
2056 M 28 FT	22-28		100	6.100	**1156 03 9**
2056 M 34 FT	28-34		100	7.700	**1156 04 7**
2056 M 40 FT	34-40		100	8.600	**1156 05 5**
2056 M 46 FT	40-46		100	9.600	**1156 06 3**
2056 M 52 FT	46-52		100	10.400	**1156 07 1**
2056 M 58 FT	52-58		100	13.100	**1156 09 8**
2056 M 64 FT	58-64		100	14.500	**1156 10 1**
2056 M 70 FT	64-70		50	16.100	**1156 12 8**
2056 M 76 FT	70-76		25	18.300	**1156 13 6**
2056 M 82 FT	76-82		25	19.100	**1156 14 4**
2056 M 90 FT	82-90		25	23.300	**1156 15 2**
2056 M 100 FT	90-100		25	25.400	**1156 16 0**

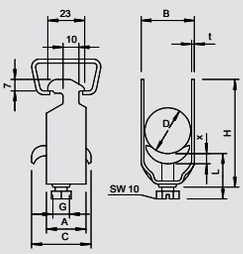
St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Clip, bolt and pressure trough made of hot-dip galvanised steel.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	30	M6	1.5	3.5	40	32.5
12 - 16	23	20	30	M6	1.5	3.5	44	32.5
16 - 22	23	27	30	M6	1.5	4.5	50	46.5
22 - 28	23	33	30	M6	2	4.5	58	46.5
28 - 34	23	39	35	M8	2	5	66	44
34 - 40	23	45	35	M8	2	5	72	44
40 - 46	23	51	35	M8	2	5	79	44
46 - 52	23	57	35	M8	2	5	86	44
52 - 58	23	64	35	M8	2.5	5	93	44
58 - 64	23	70	35	M8	2.5	5	99	56
64 - 70	25	76	35	M8	2.5	5	106	56
70 - 76	25	82	40	M8	2.5	5	114	56
76 - 82	25	88	40	M8	2.5	5	121	56
82 - 90	25	97	40	M8	3	5	130	56
90 - 100	25	107	40	M8	3	5	140	56



Clamp clip, double, metal pressure trough

H 16-17

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 M2 12 FT	8-12		50	3.980	**1156 17 9**
2056 M2 16 FT	12-16		50	4.750	**1156 18 7**
2056 M2 22 FT	16-22		50	6.900	**1156 19 5**
2056 M2 28 FT	22-28		50	7.800	**1156 20 9**

St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Clip, bolt and pressure trough made of hot-dip galvanised steel.

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	52	34
12–16	23	20	34	M6	1.5	5	61	34
16–22	23	27	34	M6	1.5	5	73	47
22–28	23	33	34	M6	2	5	87	47

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H 16-17

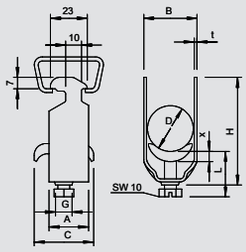
Clamp clip, triple, metal pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 M3 12 FT	8-12		50	4.050	**1156 24 1**
2056 M3 16 FT	12-16		50	5.800	**1156 26 8**
2056 M3 22 FT	16-22		50	6.500	**1156 27 6**
2056 M3 28 FT	22-28		50	9.500	**1156 28 4**

St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Clip, bolt and pressure trough made of hot-dip galvanised steel.

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.2	5	70	47
12–16	23	20	34	M6	1.5	5	82	47
16–22	23	27	34	M6	1.5	5	101	47
22–28	23	33	34	M6	2	5	121	47



H 16-17

Clamp clip, single, metal pressure trough

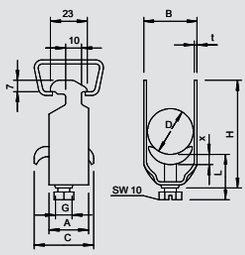
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 M 12 VA	8-12		50	3.200	**1159 71 2**
2056 M 16 VA	12-16		50	3.500	**1159 71 6**
2056 M 22 VA	16-22		50	4.400	**1159 72 2**
2056 M 28 VA	22-28		50	6.100	**1159 72 8**
2056 M 34 VA	28-34		50	7.700	**1159 73 4**
2056 M 40 VA	34-40		25	8.600	**1159 74 0**
2056 M 46 VA	40-46		25	9.600	**1159 74 6**
2056 M 52 VA	46-52		25	10.400	**1159 75 2**
2056 M 58 VA	52-58		15	13.100	**1159 75 8**
2056 M 64 VA	58-64		15	14.500	**1159 76 4**
2056 M 70 VA	64-70		15	16.100	**1159 77 0**
2056 M 76 VA	70-76		10	18.300	**1159 77 6**

V2A Stainless steel, grade 304 /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Clip, bolt and pressure trough all made of rust-proof stainless steel.

Important clamp clip dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	30	M6	1.5	3.5	44	32.5
12–16	23	20	30	M6	1.5	3.5	44	32.5
16–22	23	27	30	M6	1.5	4.5	60	46.5
22–28	23	33	30	M6	2	4.5	58	46.5
28–34	23	39	35	M8	2	5	66	44
	23	45	35	M8	2	5	72	44
40–46	23	51	35	M8	2	5	79	44
46–52	23	57	35	M8	2	5	86	44
52–58	23	64	35	M8	2.5	5	93	44
58–64	23	70	35	M8	2.5	5	99	56
64–70	25	76	35	M8	2.5	5	106	56
70–76	25	82	40	M8	2.5	5	114	56



Always indicate the item number when ordering.

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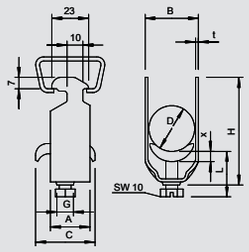


Clamp clip, double, metal pressure trough

H 16-17

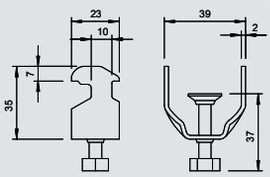
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 M2 12 VA	8-12		50	3.980	**1161 91 2**
2056 M2 16 VA	12-16		50	4.750	**1161 91 6**
2056 M2 22 VA	16-22		50	6.900	**1161 92 2**
2056 M2 28 VA	22-28		50	7.800	**1161 92 8**
2056 M2 34 VA	28-34		50	10.030	**1161 93 4**
2056 M2 40 VA	34-40		25	11.210	**1161 94 0**
2056 M2 46 VA	40-46		25	13.300	**1161 94 6**
2056 M2 52 VA	46-52		25	14.400	**1161 95 2**
2056 M2 58 VA	52-58		25	18.550	**1161 95 8**
2056 M2 64 VA	58-64		15	20.010	**1161 96 4**

V2A Stainless steel, grade 304 /100 pc.

Suitable for all C profile rails with slot width 16–17 mm.
Clip, bolt and pressure trough all made of rust-proof stainless steel.

Important clamp clip dimensions

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	52	34
12–16	23	20	34	M6	1.5	5	61	34
16–22	23	27	34	M6	1.5	5	73	47
20–28	23	33	34	M6	2	5	87	47
28–34	23	39	33	M8	2	5	101	45
34–40	23	45	33	M8	2	5	114	45
40–46	23	51	33	M8	2	5	129	47
46–52	23	57	33	M8	2.5	5	142	47
52–58	23	64	33	M8	2.5	5	154	47
58–64	23	70	33	M8	2.5	5	167	47



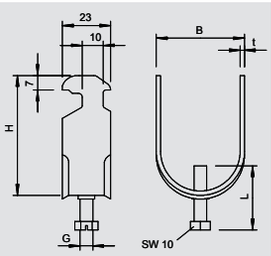
Clamp clip, fastening earthing strips

H 16-17

Type	For rail with slot width mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 BE FT	16-17		100	4.700	**1174 05 3**

St Steel FT Hot-dip galvanised /100 pc.

To fasten earthing strips with widths of up to 30 mm to profile rails, suitable for all C profile rails with 16–17 mm slot width.



Clamp clip, fastening pipes

H 16-17

Type	Size		Pack. pcs	Weight kg/100 pcs.	Item No.
2057 M16 FT	M16		100	3.500	**1193 70 8**
2057 M20 FT	M20		100	4.400	**1193 71 6**
2057 M25 FT	M25		100	6.100	**1193 72 4**
2057 M32 FT	M32		100	7.700	**1193 73 2**
2057 M40 FT	M40		100	8.600	**1193 74 0**
2057 M50 FT	M50		100	10.400	**1193 75 9**
2057 M63 FT	M63		100	14.500	**1193 76 7**

St Steel FT Hot-dip galvanised /100 pc.

To fasten metric steel armoured pipes to profile rails, also suitable for all C profile rails with 16–17 mm slot width.

Important dimensions, clamp clip

Size	B mm	H mm	t mm	G	L mm
M16	20	44	1.5	M6	34
M20	27	50	1.5	M6	34
M25	33	58	2	M6	34
M32	39	66	2	M8	36
M40	45	72	2	M8	36
M50	57	86	2	M8	39
M63	70	99	2.5	M8	39

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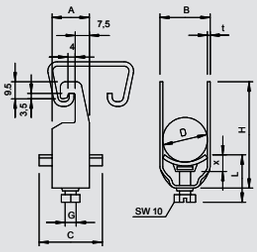
Clamp clip, single, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056U 12 FT	8-12		100	3.150	**1175 12 2**
2056U 16 FT	12-16		100	3.600	**1175 16 5**
2056U 22 FT	16-22		100	4.200	**1175 21 1**
2056U 28 FT	22-28		100	5.800	**1175 28 9**
2056U 34 FT	28-34		100	7.500	**1175 34 3**
2056U 40 FT	34-40		100	8.100	**1175 40 8**
2056U 46 FT	40-46		100	10.000	**1175 46 7**
2056U 52 FT	46-52		100	11.200	**1175 52 1**
2056U 58 FT	52-58		100	13.400	**1175 58 0**
2056U 64 FT	58-64		100	14.300	**1175 64 5**
2056U 70 FT	64-70		50	15.250	**1175 69 6**
2056U 76 FT	70-76		25	20.600	**1175 76 9**
2056U 82 FT	76-82		25	22.000	**1175 82 3**
2056U 90 FT	82-90		25	26.200	**1175 90 4**
2056U 100 FT	90-100		25	30.000	**1175 99 8**

St Steel FT Hot-dip galvanised /100 pc.



Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness.
BBS clamp and bolt made of hot-dip galvanised steel. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

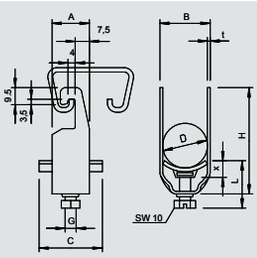
Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	20	16	34	M6	1.5	5	42	34
12 - 16	20	20	34	M6	1.5	5	46	34
16 - 22	20	27	34	M6	1.5	5	53	34
22 - 28	20	33	34	M6	2	5	59	34
28 - 34	20	39	34	M8	2	5.5	67	37.5
34 - 40	20	45	34	M8	2	5.5	73	37.5
40 - 46	20	51	40	M8	2	5.5	79	37.5
46 - 52	20	57	40	M8	2	6.5	85	38.5
90 - 100	25	107	40	M8	3	6.5	135	45.5
58 - 64	23	70	40	M8	2.5	6.5	97	38.5
52 - 58	23	64	40	M8	2.5	6.5	91	38.5
64 - 70	23	76	40	M8	2.5	6.5	103	38.5
70 - 76	25	82	40	M8	2.5	6.5	110	45.5
76 - 82	25	88	40	M8	2.5	6.5	116	45.5
82 - 90	25	97	40	M8	3	6.5	125	45.5

Clamp clip, double, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056U 2 12 FT	8-12		50	2.850	**1176 12 9**
2056U 2 16 FT	12-16		50	3.050	**1176 16 1**
2056U 2 22 FT	16-22		50	4.950	**1176 22 6**
2056U 2 28 FT	22-28		50	6.940	**1176 28 5**
2056U 2 34 FT	28-34		50	9.500	**1176 33 1**
2056U 2 40 FT	34-40		50	11.350	**1176 40 4**
2056U 2 46 FT	40-46		50	11.350	**1176 46 3**
2056U 2 52 FT	46-52		50	15.050	**1176 52 8**
2056U 2 58 FT	52-58		50	19.800	**1176 58 7**

St Steel FT Hot-dip galvanised /100 pc.



Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness.
BBS clamp and bolt made of hot-dip galvanised steel. Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	20	16	34	M6	1.5	5	56	34
12 - 16	20	20	34	M6	1.5	5	64	34
16 - 22	20	27	34	M6	1.5	5	77	47
22 - 28	20	33	34	M6	2	5	89	47
28 - 34	20	39	34	M8	2	5.5	103	44.5
34 - 40	20	45	34	M8	2	5.5	115	44.5
40 - 46	20	51	40	M8	2	5.5	128	44.5
46 - 52	20	57	40	M8	2	6.5	140	45.5
52 - 58	20	64	40	M8	2.5	6.5	152	45.5

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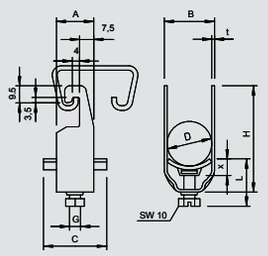
Always indicate the item number when ordering.



Clamp clip, triple, plastic pressure trough

U 18 22 Fluor Chlor 0mm HALOGENFREE

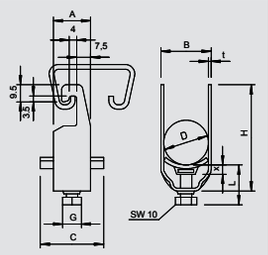
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056U 3 12 FT	8-12		50	4.750	**1177 12 5**
2056U 3 16 FT	12-16		50	4.850	**1177 16 8**
2056U 3 22 FT	16-22		50	6.600	**1177 22 2**
2056U 3 28 FT	22-28		50	10.500	**1177 28 1**
2056U 3 34 FT	28-34		50	13.250	**1177 34 6**
2056U 3 40 FT	34-40		50	14.400	**1177 40 0**
2056U 3 46 FT	40-46		50	18.950	**1177 45 1**

St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness. BBS clamp and bolt made of hot-dip galvanised steel.
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	20	16	34	M6	1.5	5	70	47
12 - 16	20	20	34	M6	1.5	5	82	47
16 - 22	20	27	34	M6	1.5	5	101	47
22 - 28	20	33	34	M6	2	5	119	47
28 - 34	20	39	34	M6	2	5.5	139	44.5
34 - 40	20	45	34	M8	2	5.5	157	44.5
40 - 46	20	51	40	M8	2	5.5	177	56.5



Clamp clip, single, plastic pressure trough

U 18 22 Fluor Chlor 0mm HALOGENFREE

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056U 12 VA	8-12		100	3.000	**1178 50 4**
2056U 16 VA	12-16		100	3.200	**1178 51 2**
2056U 22 VA	16-22		100	3.800	**1178 52 0**
2056U 28 VA	22-28		100	5.350	**1178 53 9**
2056U 34 VA	28-34		100	7.200	**1178 54 7**
2056U 40 VA	34-40		100	8.100	**1178 55 5**
2056U 46 VA	40-46		100	9.900	**1178 56 3**
2056U 52 VA	46-52		100	11.200	**1178 57 1**
2056U 58 VA	52-58		100	13.400	**1178 59 8**
2056U 64 VA	58-64		100	14.300	**1178 60 1**
2056U 70 VA	64-70		50	20.500	**1178 62 8**
2056U 76 VA	70-76		25	19.100	**1178 63 6**

V2A Stainless steel, grade 304 /100 pc.

Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness.
Stainless steel clip and bolt.
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	20	16	34	M6	1.5	5	42	34
12 - 16	20	20	34	M6	1.5	5	46	34
16 - 22	20	27	34	M6	1.5	5	53	34
22 - 28	20	33	34	M6	2	5	59	34
28 - 34	20	39	34	M8	2	5.5	67	37.5
34 - 40	20	45	34	M8	2	5.5	73	37.5
40 - 46	20	51	40	M8	2	5.5	79	37.5
46 - 52	20	57	40	M8	2	6.5	85	38.5
58 - 64	23	70	40	M8	2.5	6.5	97	38.5
52 - 58	23	64	40	M8	2.5	6.5	91	38.5
64 - 70	23	76	40	M8	2.5	6.5	103	38.5
70 - 76	25	82	40	M8	2.5	6.5	110	45.5

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Clamp clip, single, plastic pressure trough

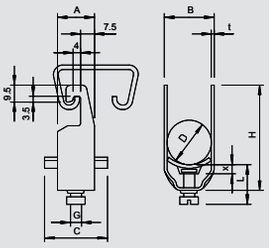
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056U 12 ALU	8-12		100	1.100	**1184 40 7**
2056U 16 ALU	12-16		100	1.200	**1184 41 5**
2056U 22 ALU	16-22		100	1.350	**1184 42 3**
2056U 28 ALU	22-28		100	1.950	**1184 43 1**
2056U 34 ALU	28-34		100	2.550	**1184 45 8**
2056U 40 ALU	34-40		100	2.800	**1184 46 6**
2056U 46 ALU	40-46		100	3.600	**1184 47 4**
2056U 52 ALU	46-52		100	3.950	**1184 48 2**
2056U 58 ALU	52-58		100	4.900	**1184 49 0**
2056U 64 ALU	58-64		100	5.250	**1184 50 4**
2056U 70 ALU	64-70		50	5.600	**1184 53 9**
2056U 76 ALU	70-76		25	7.050	**1184 51 2**

Al Aluminium /100 pc.

Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness. Aluminium ALMg3 U clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	20	16	34	M6	1.5	5	42	34
12–16	20	20	34	M6	1.5	5	46	34
16–22	20	27	34	M6	1.5	5	53	34
22–28	20	33	34	M6	2	5	59	34
28–34	20	39	34	M8	2	5.5	67	37.5
34–40	20	45	34	M8	2	5.5	73	37.5
40–46	20	51	40	M8	2	5.5	79	37.5
46–52	20	57	40	M8	2	6.5	85	38.5
52–58	23	64	40	M8	2.5	6.5	91	38.5
70–76	23	82	40	M8	2.5	6.5	110	45.5
64–70	23	76	40	M8	2.5	6.5	103	38.5
58–64	23	70	40	M8	2.5	6.5	97	38.5



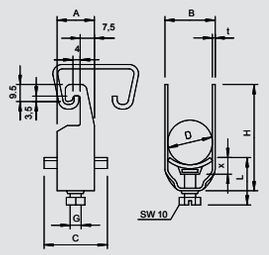
Clamp clip, single, metal pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056U M 12 FT	8-12		100	3.300	**1158 00 7**
2056U M 16 FT	12-16		100	3.520	**1158 01 5**
2056U M 22 FT	16-22		100	3.960	**1158 02 3**
2056U M 28 FT	22-28		100	5.890	**1158 03 1**
2056U M 34 FT	28-34		100	7.650	**1158 05 8**
2056U M 40 FT	34-40		100	8.360	**1158 06 6**
2056U M 46 FT	40-46		100	10.890	**1158 07 4**
2056U M 52 FT	46-52		100	11.660	**1158 08 2**
2056U M 58 FT	52-58		100	14.740	**1158 09 0**
2056U M 64 FT	58-64		100	15.730	**1158 10 4**
2056U M 70 FT	64-70		50	18.200	**1158 11 2**
2056U M 76 FT	70-76		25	20.600	**1158 12 0**

St Steel FT Hot-dip galvanised /100 pc.

Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness.
U clamp, bolt and pressure sleeve made of hot-dip galvanised steel.

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8-12	20	16	34	M6	1.5	5	42	34
12-16	20	20	34	M6	1.5	5	46	34
16-22	20	27	34	M6	1.5	5	53	34
22-28	20	33	34	M6	2	5	59	34
28-34	20	39	34	M8	2	5.5	67	37.5
34-40	20	45	34	M8	2	5.5	73	37.5
40-46	20	51	40	M8	2	5.5	79	37.5
46-52	20	57	40	M8	2	6.5	85	38.5
52-58	23	64	40	M8	2.5	6.5	91	38.5
58-64	23	70	40	M8	2.5	6.5	97	38.5
64-70	23	76	40	M8	2.5	6.5	103	38.5
70-76	25	82	40	M8	2.5	6.5	110	45.5



Always indicate the item number when ordering.

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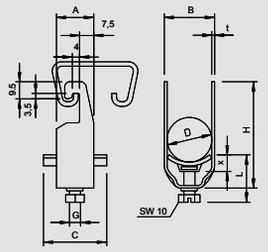

Clamp clip, single, metal pressure trough V4A

U 18 22

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056U M 12 V4A	8-12		1	3.300	**1158 20 7**
2056U M 16 V4A	12-16		1	3.520	**1158 21 1**
2056U M 22 V4A	16-22		1	3.960	**1158 21 5**
2056U M 28 V4A	22-28		1	5.890	**1158 21 9**
2056U M 34 V4A	28-34		1	7.650	**1158 22 3**
2056U M 40 V4A	34-40		1	8.360	**1158 22 7**
2056U M 46 V4A	40-46		1	10.890	**1158 23 1**
2056U M 52 V4A	46-52		1	11.660	**1158 23 5**
2056U M 58 V4A	52-58		1	14.740	**1158 23 9**
2056U M 64 V4A	58-64		1	15.730	**1158 24 3**
2056U M 70 V4A	64-70		1	18.200	**1158 24 7**
2056U M 76 V4A	70-76		1	20.600	**1158 25 1**

V4A Stainless steel, grade 316 Ti /100 pc.

Suitable for all C profile rails with slot width 18 and 22 mm. Also suitable for flat, angle and U steel of 4 - 12 mm material thickness.
Clip, screw and pressure trough all made of rust-proof stainless steel.

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8-12	20	16	34	M6	1.5	5	42	34
12-16	20	20	34	M6	1.5	5	46	34
16-22	20	27	34	M6	1.5	5	53	34
22-28	20	33	34	M6	2	5	59	34
28-34	20	39	34	M8	2	5.5	67	37.5
34-40	20	45	34	M8	2	5.5	73	37.5
40-46	20	51	40	M8	2	5.5	79	37.5
46-52	20	57	40	M8	2	6.5	85	38.5
52-58	23	64	40	M8	2.5	6.5	91	38.5
58-64	23	40	40	M8	2.5	6.5	97	38.5
64-70	23	76	40	M8	2.5	6.5	103	38.5
70-76	25	82	40	M8	2.5	6.5	110	45.5

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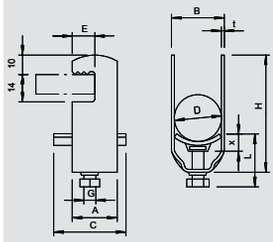
Clamp clip, single, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056F 12 FT	8-12		100	3.700	**1169 12 2**
2056F 16 FT	12-16		100	3.900	**1169 16 5**
2056F 22 FT	16-22		100	4.500	**1169 21 1**
2056F 28 FT	22-28		100	6.000	**1169 28 9**
2056F 34 FT	28-34		100	8.000	**1169 34 3**
2056F 40 FT	34-40		100	8.500	**1169 40 8**
2056F 46 FT	40-46		100	10.600	**1169 46 7**
2056F 52 FT	46-52		100	11.700	**1169 52 1**
2056F 58 FT	52-58		100	13.050	**1169 58 0**
2056F 64 FT	58-64		100	14.800	**1169 64 5**
2056F 70 FT	64-70		50	17.700	**1169 69 6**
2056F 76 FT	70-76		25	20.600	**1169 76 9**
2056F 82 FT	76-82		25	22.000	**1169 82 3**
2056F 90 FT	82-90		25	26.200	**1169 90 4**

St Steel FT Hot-dip galvanised /100 pc.



Suitable for flat, bracket and U irons of 4–12 mm material thickness.
Clip and bolt made of hot-dip galvanised steel.
Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

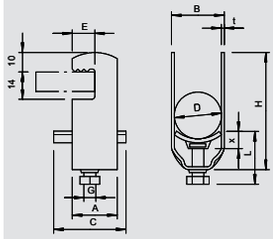
Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.5	5	43	34
12 - 16	23	20	34	M6	1.5	5	47	34
16 - 22	23	27	34	M6	1.5	5	54	34
22 - 28	23	33	34	M6	2	5	60	34
28 - 34	23	39	34	M8	2	5.5	68	37.5
34 - 40	23	45	34	M8	2	5.5	74	37.5
40 - 46	25	51	40	M8	2	5.5	80	37.5
46 - 52	25	57	40	M8	2	6.5	86	38.5
52 - 58	25	64	40	M8	2.5	6.5	92	38.5
58 - 64	25	70	40	M8	2.5	6.5	98	38.5
64 - 70	25	76	40	M8	2.5	6.5	104	38.5
70 - 76	25	82	40	M8	2.5	6.5	111	45.5
76 - 82	25	88	40	M8	2.5	6.5	117	45.5
82 - 90	25	97	40	M8	3	6.5	126	45.5

Clamp clip, double, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056F 2 12 FT	8-12		50	4.250	**1170 12 0**
2056F 2 16 FT	12-16		50	4.550	**1170 16 3**
2056F 2 22 FT	16-22		50	5.200	**1170 22 8**
2056F 2 28 FT	22-28		50	7.900	**1170 28 7**
2056F 2 34 FT	28-34		50	9.900	**1170 34 1**
2056F 2 40 FT	34-40		50	11.200	**1170 40 6**
2056F 2 46 FT	40-46		50	12.000	**1170 46 5**
2056F 2 52 FT	46-52		50	16.600	**1170 51 1**

St Steel FT Hot-dip galvanised /100 pc.



Suitable for flat, bracket and U irons of 4–12 mm material thickness.
Clip and bolt made of hot-dip galvanised steel.
Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Version with welding and/or locknuts for use under difficult circumstances and for shake protection on request.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.5	4.5	57	25
12 - 16	23	20	34	M6	1.5	4.5	65	25
16 - 22	23	27	34	M6	1.5	5	78	38
22 - 28	23	33	34	M6	2	5	90	47
28 - 34	23	39	34	M8	2	6	104	33
34 - 40	23	45	34	M8	2	6	116	33
40 - 46	25	51	40	M8	2	6	128	33
46 - 52	25	57	40	M8	2	6.5	140	33

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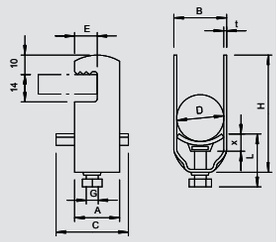


Clamp clip, single, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056F 12 VA	8-12		100	3.700	**1185 00 4**
2056F 16 VA	12-16		100	3.900	**1185 01 2**
2056F 22 VA	16-22		100	4.500	**1185 02 0**
2056F 28 VA	22-28		100	6.000	**1185 03 9**
2056F 34 VA	28-34		100	8.000	**1185 04 7**
2056F 40 VA	34-40		100	8.500	**1185 05 5**
2056F 46 VA	40-46		100	10.600	**1185 06 3**
2056F 52 VA	46-52		100	11.700	**1185 07 1**
2056F 58 VA	52-58		100	13.050	**1185 09 8**
2056F 64 VA	58-64		100	14.800	**1185 10 1**

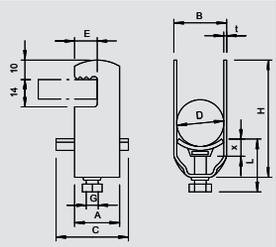
V2A Stainless steel, grade 304 /100 pc.

For flat, angular and U irons of 4–12 mm thickness; rust-proof stainless steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

(VA pressure trough on request.)

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	E mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	13	M6	1.5	5	43	34
12–16	23	20	34	13	M6	1.5	5	47	34
16–22	23	27	34	13	M6	1.5	5	54	34
22–28	23	33	34	13	M6	2	5	60	34
28–34	23	39	34	13	M8	2	5.5	68	37.5
34–40	23	45	34	13	M8	2	5.5	74	37.5
40–46	25	51	40	13	M8	2	5.5	80	37.5
46–52	25	57	40	13	M8	2	6.5	86	38.5
52–58	25	64	40	13	M8	2.5	6.5	92	38.5
58–64	25	70	40	13	M8	2.5	6.5	98	38.5



Clamp clip, single, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056F 12 ALU	8-12		100	1.200	**1184 70 9**
2056F 16 ALU	12-16		100	1.250	**1184 71 7**
2056F 22 ALU	16-22		100	1.450	**1184 72 5**
2056F 28 ALU	22-28		100	2.050	**1184 73 3**
2056F 34 ALU	28-34		100	2.650	**1184 74 1**
2056F 40 ALU	34-40		100	2.850	**1184 76 8**
2056F 46ALU	40-46		100	3.650	**1184 77 6**

Al Aluminium /100 pc.

For flat, angular and U irons of 4–12 mm thickness; aluminium ALMg3 clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

(Metal pressure trough on request.)

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	E mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	13	M6	1.5	5	43	34
12–16	23	20	34	13	M6	1.5	5	47	34
16–22	23	27	34	13	M6	1.5	5	54	34
22–28	23	33	34	13	M6	2	5	60	34
28–34	23	39	34	13	M8	2	5.5	68	37.5
34–40	23	45	34	13	M6	2	5.5	74	37.5
40–46	25	51	40	13	M6	2	5.5	80	37.5

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Clamp clip, single, metal pressure trough

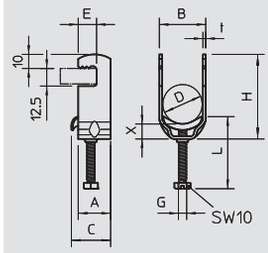
Type	Clamping range D mm	Pack. pcs	Weight kg/100 pcs.	Item No.
2056F M 12 FT	8-12	100	3.700	**1156 80 2**
2056F M 16 FT	12-16	100	3.900	**1156 81 0**
2056F M 22 FT	16-22	100	4.550	**1156 82 9**
2056F M 28 FT	22-28	100	6.000	**1156 83 7**

St Steel FT Hot-dip galvanised /100 pc.

Also suitable for all C profile rails with slot width 16–17 mm; metal troughs have strongly rounded edges on all sides, so that there is no risk of cable damage.

Important clamp clip dimensions

D mm	A mm	B mm	C mm	E mm	G	t mm	x mm	H mm	L mm
8–12	23	16	28	13	M6	1.5	3.25	43	26
12–16	23	20	28	13	M6	1.5	3.5	47	26
16–22	23	27	28	13	M6	1.5	4	54	38
22–28	23	33	28	13	M6	2	4	60	38



Always indicate the item number when ordering.

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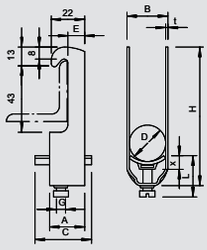


Clamp clip, single, plastic pressure trough

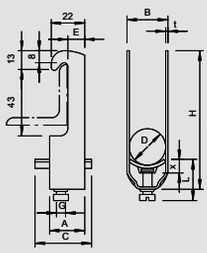
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056W 12 FT	8-12		100	4.450	**1180 12 6**
2056W 16 FT	12-16		100	4.890	**1180 16 9**
2056W 22 FT	16-22		100	5.700	**1180 22 3**
2056W 28 FT	22-28		100	7.800	**1180 28 2**
2056W 34 FT	28-34		100	9.400	**1180 34 7**
2056W 40 FT	34-40		100	10.000	**1180 40 1**
2056W 46 FT	40-46		100	12.800	**1180 46 0**
2056W 52 FT	46-52		100	13.600	**1180 52 5**
2056W 58 FT	52-58		50	17.100	**1180 58 4**
2056W 64 FT	58-64		50	18.600	**1180 64 9**
2056W 70 FT	64-70		50	18.500	**1180 68 1**
2056W 76 FT	70-76		25	20.600	**1180 76 2**
2056W 82 FT	76-82		25	22.000	**1180 82 7**
2056W 90 FT	82-90		25	26.200	**1180 90 8**

St Steel FT Hot-dip galvanised /100 pc.

Suitable for angular steel of 40 mm limb length.
Clip and bolt made of hot-dip galvanised steel.
Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.5	5	74	27
12 - 16	23	20	34	M6	1.5	5	78	27
16 - 22	23	27	34	M6	1.5	5	85	27
22 - 28	23	33	34	M6	2	5	91	27
28 - 34	23	39	34	M8	2	5.5	99	31.5
34 - 40	23	45	34	M8	2	5.5	105	31.5
40 - 46	25	51	40	M8	2	5.5	111	31.5
46 - 52	25	57	40	M8	2	6.5	117	32.5
58 - 64	25	70	40	M8	2.5	6.5	130	32.5
82 - 90	25	97	40	M8	3	6.5	158	38.5
52 - 58	25	64	40	M8	2.5	6.5	123	32.5
76 - 82	25	88	40	M8	2.5	6.5	149	38.5
70 - 76	25	82	40	M8	2.5	6.5	143	38.5
64 - 70	25	76	40	M8	2.5	6.5	136	32.5



Clamp clip, double, plastic pressure trough

Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056W 2 12 FT	8-12		50	5.150	**1181 12 2**
2056W 2 16 FT	12-16		50	5.700	**1181 16 5**
2056W 2 22 FT	16-22		50	7.050	**1181 21 1**
2056W 2 28 FT	22-28		50	10.350	**1181 28 9**
2056W 2 34 FT	28-34		50	11.600	**1181 34 3**
2056W 2 40 FT	34-40		50	12.700	**1181 40 8**
2056W 2 46 FT	40-46		50	16.750	**1181 46 7**
2056W 2 52 FT	46-52		50	18.200	**1181 52 1**
2056W 2 58 FT	52-58		50	23.000	**1181 58 0**

St Steel FT Hot-dip galvanised /100 pc.

Suitable for angular steel of 40 mm limb length.
Clip and bolt made of hot-dip galvanised steel.
Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8 - 12	23	16	34	M6	1.5	5	88	34
12 - 16	23	20	34	M6	1.5	5	96	34
16 - 22	23	27	34	M6	1.5	5	109	34
22 - 28	23	33	34	M6	2	5	121	34
28 - 34	23	39	34	M8	2	5.5	135	37.5
34 - 40	23	45	34	M8	2	5.5	147	37.5
40 - 46	25	51	40	M8	2	5.5	160	37.5
46 - 52	25	57	40	M8	2	6.5	172	38.5
52 - 58	25	64	40	M8	2.5	6.5	185	38.5

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Clamp clips, fastening to angular steel

Clamp clip, single, plastic pressure trough

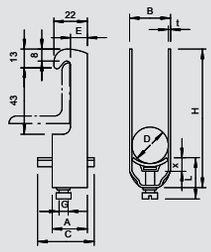
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056W 22 VA	16-22		100	5.700	**1185 43 8**
2056W 28 VA	22-28		100	7.800	**1185 44 6**
2056W 34 VA	28-34		100	9.400	**1185 45 4**
2056W 40 VA	34-40		100	10.000	**1185 46 2**
2056W 46 VA	40-46		100	12.800	**1185 47 0**
2056W 52 VA	46-52		100	13.600	**1185 48 9**
2056W 58 VA	52-58		50	17.100	**1185 49 7**

V2A Stainless steel, grade 304 /100 pc.

Also suitable for angular steels of 40 mm shaft length; stainless steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
16–22	23	27	34	M6	1.5	5	85	27
22–28	23	33	34	M6	2	5	91	27
28–34	23	39	34	M8	2	5.5	99	31.5
34–40	23	45	34	M8	2	5.5	105	31.5
40–46	25	51	40	M8	2	5.5	111	31.5
46–52	25	57	40	M8	2	6.5	117	32.5
52–58	25	64	40	M8	2.5	6.5	123	32.5



Clamp clip, single, plastic pressure trough

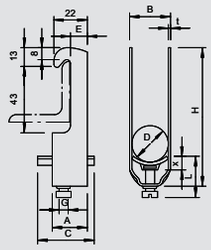
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056W 12 ALU	8-12		100	1.600	**1184 00 8**
2056W 16 ALU	12-16		100	1.800	**1184 01 6**
2056W 22 ALU	16-22		100	1.900	**1184 02 4**
2056W 28 ALU	22-28		100	2.550	**1184 03 2**
2056W 34 ALU	28-34		100	3.200	**1184 04 0**
2056W 40 ALU	34-40		100	3.500	**1184 05 9**
2056W 46 ALU	40-46		100	4.550	**1184 06 7**
2056W 52 ALU	46-52		100	4.800	**1184 07 5**
2056W 58 ALU	52-58		50	5.850	**1184 08 3**
2056W 64 ALU	58-64		50	6.450	**1184 09 1**

Al Aluminium /100 pc.

Also suitable for angular steel of 40 mm shaft length; aluminium ALMg3 clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Important dimensions, clamp clip

D mm	A mm	B mm	C mm	G	t mm	x mm	H mm	L mm
8–12	23	16	34	M6	1.5	5	74	27
12–16	23	20	34	M6	1.5	5	78	27
16–22	23	27	34	M6	1.5	5	85	27
22–28	23	33	34	M6	2	5	91	27
28–34	23	39	34	M8	2	5.5	99	31.5
34–40	23	46	34	M8	2	5.5	105	31.5
40–46	25	51	40	M8	2	5.5	111	31.5
46–52	25	57	40	M8	2	6.5	117	32.5
52–58	23	64	40	M8	2.5	6.5	123	32.5
58–64	23	70	40	M8	2.5	6.5	130	32.5



Always indicate the item number when ordering.

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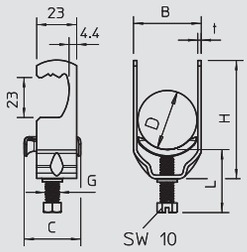
Clamp clip, round profiles/pipes



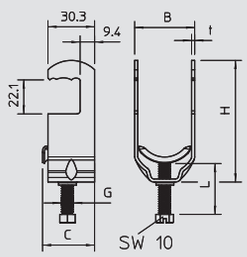
Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056R M 22 FS	16-22		100	5.240	**1158 41 0**
2056R M 28 FS	22-28		100	7.410	**1158 41 4**
2056R M 34 FS	28-34		100	8.810	**1158 41 8**
2056R M 40 FS	34-40		100	9.790	**1158 42 2**

St Steel FS Strip-galvanised /100 pc.

Suitable for all round profile irons or pipes of diameters to 22 mm; clip, pressure trough and bolt made of steel, hot-dip galvanised;
the metal troughs have strongly rounded edges on all sides, so that no damage to the cables need be feared.

Important dimensions, clamp clip

D mm	B mm	C mm	G	t mm	H mm	L mm
16–22	27	28	M6	1.5	64	26
22–28	33	28	M6	2.0	71	30
28–34	39	33	M6	2.0	78	33
34–40	45	33	M6	2.0	87	33



Type	Clamping range D mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056RS M 16 FT	12-16		100	4.000	**1158 30 5**
2056RS M 22 FT	16-22		100	5.200	**1158 30 9**
2056RS M 28 FT	22-28		100	7.500	**1158 31 3**
2056RS M 34 FT	28-34		100	9.000	**1158 31 7**
2056RS M 40 FT	34-40		100	10.000	**1158 32 1**
2056RS M 46 FT	40-46		100	10.900	**1158 32 5**
2056RS M 52 FT	46-52		100	12.200	**1158 32 9**
2056RS M 58 FT	52-58		100	15.000	**1158 33 3**
2056RS M 64 FT	58-64		100	16.500	**1158 33 7**

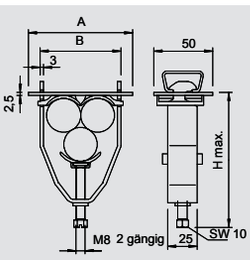
St Steel FT Hot-dip galvanised /100 pc.

Suitable for all round profile irons or pipes of diameters to 22 mm; clip, pressure trough and bolt made of steel, hot-dip galvanised;
the metal troughs have strongly rounded edges on all sides, so that no damage to the cables need be feared.

Important dimensions, clamp clip

D mm	B mm	C mm	G	t mm	H mm	L mm
12–16	20	28	M6	1.5	57	26
16–22	27	28	M6	1.5	69	30
22–28	33	28	M6	2.0	73	38
28–34	39	33	M8	2.0	79	33
34–40	45	33	M8	2.0	86	33
40–46	51	33	M8	2.0	92	33
46–52	57	33	M8	2.0	97	33
52–58	64	33	M8	2.5	103	33
58–64	70	33	M8	2.5	112	33

Clamp clip, hammer-head base, 3x single-wire connection



Type	Cable Ø mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 E 31 FT	28-31		25	19.500	**1174 60 6**
2056 E 37 FT	34-37		25	24.600	**1174 61 4**
2056 E 44 FT	40-44		25	28.300	**1174 63 0**

St Steel FT Hot-dip galvanised /100 pc.

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.

Important dimensions, clamp clip

D mm	A mm	B mm	H mm
28–31	83	69	107
34–37	95	81	118
40–44	109	95	143

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18 22 U

Clamp clip, U base, 3x single-wire connection

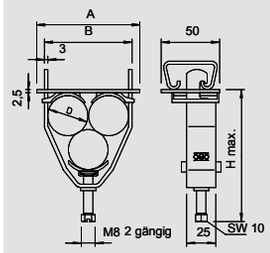
Type	Cable Ø mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056U-E28 FT	25-28		25	20.000	**1174 50 9**
2056U-E31 FT	28-31		25	19.500	**1174 54 1**
2056U-E34 FT	31-34		25	23.000	**1174 51 7**
2056U-E37 FT	34-37		25	24.600	**1174 56 8**
2056U-E40 FT	37-40		25	26.000	**1174 52 5**
2056U-E44 FT	40-44		25	28.300	**1174 57 6**

St Steel FT Hot-dip galvanised /100 pc.

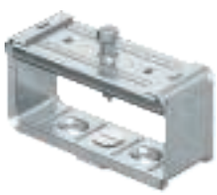
Clip element, bolt and lock plate made of hot-dip galvanised steel, pressure and counter-trough made of polypropylene, halogen-free, light grey RAL 7035. Delivered complete with lock plate and counter-troughs.

Important dimensions, clamp clip

D mm	A mm	B mm	H mm
25–28	77	63	101
28–31	83	69	107
31–34	89	75	112
34–37	95	81	118
37–40	101	87	123
40–44	109	95	143



16-17

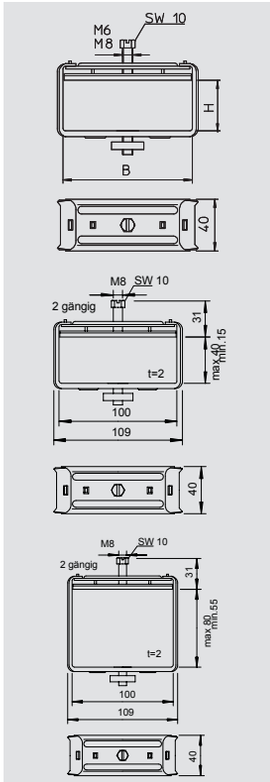


Bundle clip

Type	Height x Width mm	Dimension H mm	Dimension B mm		Pack. pcs	Weight kg/100 pcs.	Item No.
2056 B 35 FT	35 x 50	35	50		100	16.000	**1194 05 4**
2056 B 40 FT	40 x 100	40	100		50	32.700	**1194 04 6**
2056 B 80 FT	80 x 100	80	100		25	38.300	**1194 08 9**
2056 B 80 VA	80 x 100	80	100		25	38.300	**1194 37 2**

St Steel V2A Stainless steel, grade 304 FT Hot-dip galvanised /100 pc.

Clip and bolt made of hot-dip galvanised steel, countersunk head bolt made of rustproof stainless steel, slide nut made of electrogalvanised stainless steel.



Always indicate the item number when ordering.

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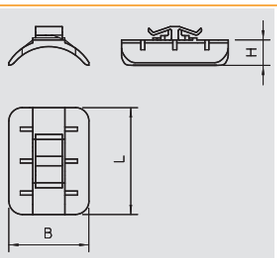


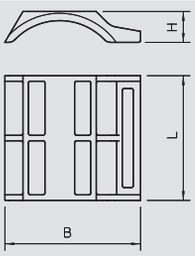
Counter-trough, plastic 16–17 mm slot width

16-17

Type	Clamping range D mm	Dimension L mm	Dimension B mm	Dimension H mm	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058 12 LGR	8-12	34	12	5.4	Light grey	2700	100	0.180	**1195 12 3**
2058 16 LGR	12-16	34	15.5	6	Light grey	2700	100	0.190	**1195 16 6**
2058 22 LGR	16-22	34	20	6.7	Light grey	2700	100	0.190	**1195 22 0**
2058 28 LGR	22-28	34	25	8.1	Light grey	1800	100	0.240	**1195 27 1**
2058 34 LGR	28-34	40	30	9.5	Light grey	1200	100	0.300	**1195 34 4**
2058 40 LGR	34-40	40	35	10.8	Light grey	1200	100	0.330	**1195 40 9**
2058 46 LGR	40-46	40	40	12.2	Light grey	1200	100	0.410	**1195 46 8**
2058 52 LGR	46-52	40	42	11	Light grey	1200	100	0.440	**1195 52 2**
2058 58 LGR	52-58	40	45	11.5	Light grey	1200	100	0.490	**1195 58 1**
2058 64 LGR	58-64	40	48	11.8	Light grey	500	50	0.540	**1195 64 6**
2058 70 LGR	64-70	40	50	11.5	Light grey	500	50	0.550	**1195 70 0**

PP Polypropylene /100 pc.

Area of use rails with slot width 16–17 mm. Counter-trough is clamped into the slot width as protection between the cable and rail.



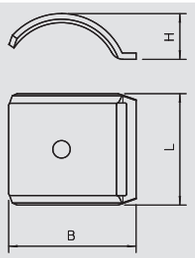
Counter-trough, plastic, universal

11-12 16-17 18 22

Type	Clamping range D mm	Dimension L mm	Dimension B mm	Dimension H mm	Colour	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058FW 12 LGR	8-12	34	16.5	5	Light grey	2700	100	0.100	**1197 12 6**
2058FW 16 LGR	12-16	34	20	5	Light grey	2700	100	0.130	**1197 16 9**
2058FW 22 LGR	16-22	34	25.5	5.8	Light grey	2700	100	1.700	**1197 22 3**
2058FW 28 LGR	22-28	34	31.5	7.2	Light grey	1800	100	0.220	**1197 28 2**
2058FW 34 LGR	28-34	34	37	8.4	Light grey	1200	100	0.280	**1197 34 7**
2058FW 40 LGR	34-40	34	42.5	9.7	Light grey	1200	100	0.320	**1197 40 1**
2058FW 46 LGR	40-46	40	48	11	Light grey	1200	100	0.420	**1197 46 0**
2058FW 52 LGR	46-52	40	51.5	9.8	Light grey	1600	100	0.430	**1197 52 5**
2058FW 58 LGR	52-58	40	57	10.6	Light grey	1600	100	0.460	**1197 58 4**
2058FW 64 LGR	58-64	40	61.2	10.4	Light grey	600	50	0.530	**1197 64 9**
2058FW 70 LGR	64-70	40	67.2	10.4	Light grey	400	50	0.570	**1197 70 3**
2058FW 76 LGR	70-76	40	71.4	11	Light grey	500	25	0.920	**1197 76 2**
2058FW 82 LGR	76-82	40	75.6	11	Light grey	500	25	1.000	**1197 82 7**
2058FW 90 LGR	82-90	40	82.6	12	Light grey	500	25	1.070	**1197 90 8**
2058FW 100 LGR	90-100	40	89.5	12	Light grey	500	25	1.150	**1197 99 1**

PP Polypropylene /100 pc.

Irrespective of the rail, universally applicable by pushing onto a limb of the BBS clamp clip.



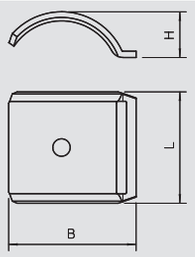
Counter-trough, metal, universal

11-12 16-17 18 22

Type	Clamping range D mm	Dimension L mm	Dimension B mm	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058FW M 12 FT	8-12	35	17.5	6.5	1000	100	0.940	**1199 84 6**
2058FW M 16 FT	12-16	35	21.5	7.7	1200	100	1.100	**1199 85 4**
2058FW M 22 FT	16-22	35	28	8.8	1200	100	1.200	**1199 86 2**
2058FW M 28 FT	22-28	35	34	10.4	1000	100	1.400	**1199 87 0**
2058FW M 34 FT	28-34	35	40	135	400	100	2.160	**1199 88 9**
2058FW M 40 FT	34-40	35	46	15.1	200	100	2.490	**1199 89 7**
2058FW M 46 FT	40-46	35	52	17.2	200	100	3.270	**1199 90 0**
2058FW M 52 FT	46-52	35	58	19.2	200	50	3.460	**1199 91 9**
2058FW M 58 FT	52-58	35	40	13.5	200	50	3.620	**1199 92 7**
2058FW M 64 FT	58-64	35	70	22.4	300	50	4.280	**1199 93 5**
2058FW M 70 FT	64-70	35	76	24.5	200	50	4.590	**1199 94 3**

St Steel FT Hot-dip galvanised /100 pc.

Irrespective of the rail, universally applicable by pushing onto a limb of the BBS clamp clip.



Counter-trough, metal V2A, universal

11-12 16-17 18 22

Type	Clamping range D mm	Dimension L mm	Dimension B mm	Dimension H mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2058FW M 8 V2A	4-8	35	13	2.25	1500	100	0.130	**1197 09 6**
2058FW M 12 V2A	8-12	35	17.5	6.5	1200	100	0.160	**1197 13 4**
2058FW M 16 V2A	12-16	35	21.5	7.7	1000	100	0.180	**1197 17 7**
2058FW M 22 V2A	16-22	35	28	8.8	1200	100	0.200	**1197 23 1**
2058FW M 28 V2A	22-28	35	34	10.4	1000	100	0.230	**1197 29 0**
2058FW M 34 V2A	28-34	35	40	13.5	400	100	2.160	**1197 35 5**
2058FW M 40 V2A	34-40	35	46	15.1	300	100	2.490	**1197 42 8**
2058FW M 46 V2A	40-46	35	52	17.2	200	100	3.270	**1197 47 9**
2058FW M 52 V2A	46-52	35	58	19.2	200	50	3.460	**1197 53 3**
2058FW M 58 V2A	52-58	35	40	13.5	200	50	3.620	**1197 59 2**
2058FW M 64 V2A	58-64	35	70	24.5	600	50	4.280	**1197 60 6**

V2A Stainless steel, grade 304 /100 pc.

Irrespective of the rail, universally applicable by pushing onto a limb of the BBS clamp clip.

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Always indicate the item number when ordering.

Clamp clips, system accessories

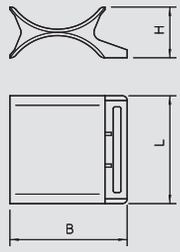
11-12 16-17 18 22

Double trough, plastic

Type	Clamping range D mm	Dimension L mm	Dimension B mm	Dimension H mm	Colour	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2058 2 12 LGR	8-12	34	16.5	7	Light grey	2000		50	0.170	**1196 11 1**
2058 2 16 LGR	12-16	34	20	9	Light grey	1350		50	0.230	**1196 16 2**
2058 2 22 LGR	16-22	34	25.5	11	Light grey	1350		50	0.290	**1196 22 7**
2058 2 28 LGR	22-28	34	31.5	14	Light grey	900		50	0.380	**1196 28 6**
2058 2 34 LGR	28-34	34	37	16	Light grey	600		50	0.470	**1196 34 0**
2058 2 40 LGR	34-40	34	42	18	Light grey	600		50	0.700	**1196 40 5**
2058 2 46 LGR	40-46	40	47.5	20	Light grey	800		50	0.890	**1196 46 4**
2058 2 52 LGR	46-52	40	53	22	Light grey	600		50	1.110	**1196 52 9**
2058 2 58 LGR	52-58	40	58	24	Light grey	600		50	1.160	**1196 58 8**

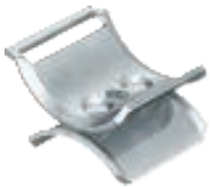
PP Polypropylene /100 pc.

Double trough as intermediate layer between two or three cables within a BBS clamp clip.



11-12 16-17 18 22

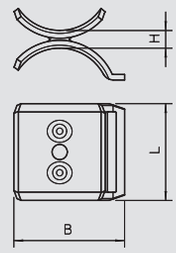
Double trough, metal



Type	Clamping range D mm	Dimension L mm	Dimension B mm	Dimension H mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2058 M2 12 FT	8-12	35	17.6	5.4	600		100	1.360	**1199 70 6**
2058 M2 16 FT	12-16	35	21.5	5.4	600		50	1.800	**1199 71 4**
2058 M2 22 FT	16-22	35	28	5.4	500		50	2.300	**1199 72 2**
2058 M2 28 FT	22-28	35	34	5.4	600		50	3.100	**1199 73 0**
2058 M2 34 FT	28-34	35	40	6.4	300		50	3.760	**1199 74 9**
2058 M2 40 FT	34-40	35	46	6.4	100		50	5.600	**1199 75 7**

St Steel FT Hot-dip galvanised /100 pc.

Double trough as intermediate layer between two or three cables within a BBS clamp clip.



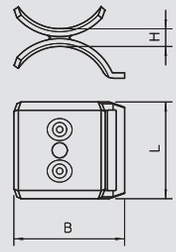
11-12 16-17 18 22

Double trough, V2A

Type	Clamping range D mm	Dimension L mm	Dimension B mm	Dimension H mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
2058 M2 22 V2A	16-22	35	28	5.4	500		50	2.300	**1196 59 7**
2058 M2 28 V2A	22-28	35	34	5.4	600		50	3.100	**1196 59 9**
2058 M2 34 V2A	28-34	35	40	6.4	300		50	3.760	**1196 60 1**
2058 M2 40 V2A	34-40	35	46	6.4	100		50	5.600	**1196 60 3**

V2A Stainless steel, grade 304 /100 pc.

Clamp clips allows both cables and pipes to be fastened to profile rails. The clamp clips are hooked into the appropriate slot widths of the profile rails and the component to be fastened is pressed onto the profile rail with the pressure trough of the clamp clip and held in place.



Always indicate the item number when ordering.

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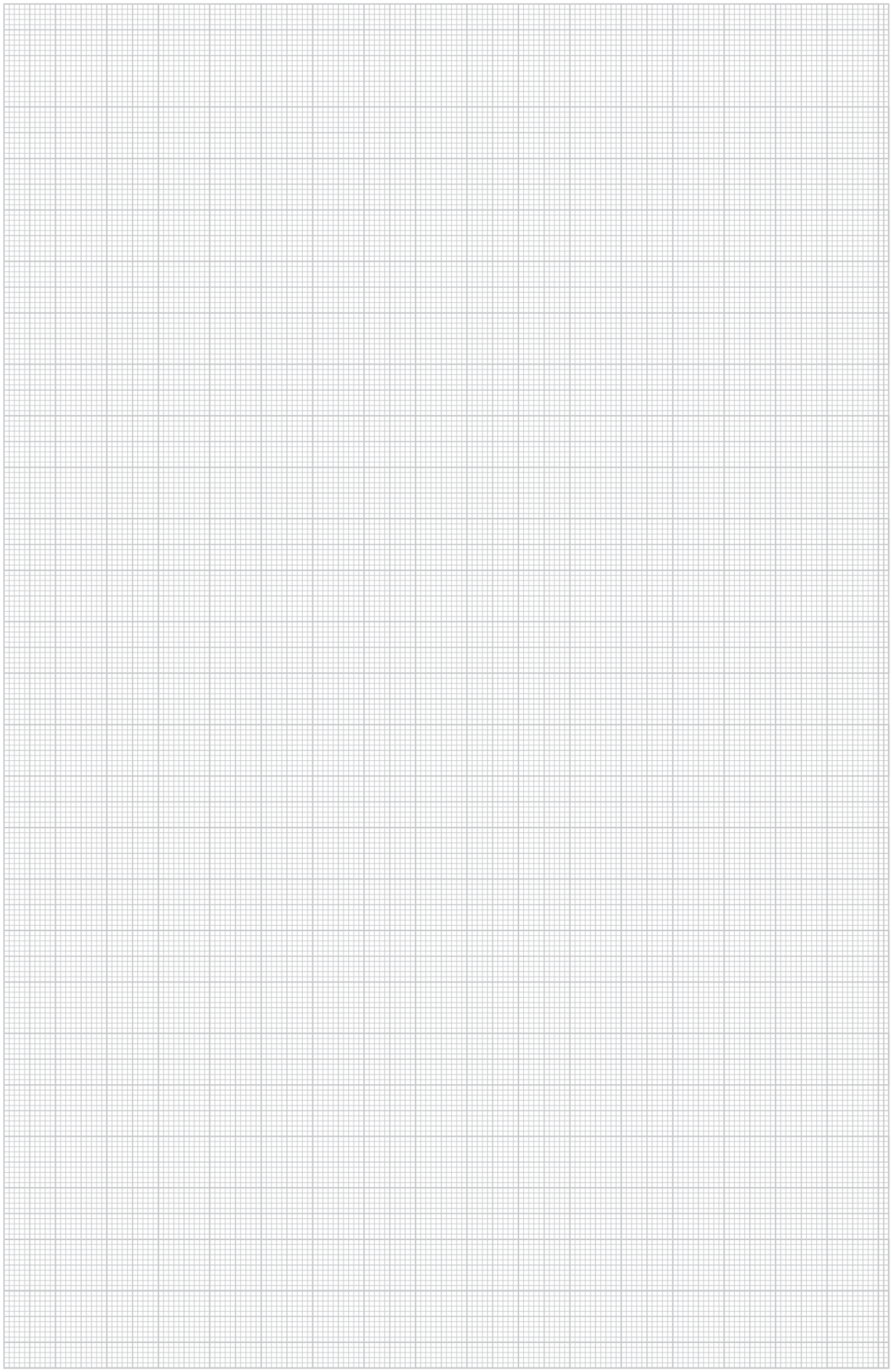

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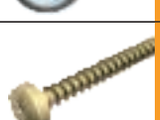
Screw-in and knock-in systems

	Steel nail	420
	Impu steel needle	420
	Siko steel nail	421
	Hook nail	421
	OBO anchor	422
	Angler straddling dowel	423
	Multipurpose anchor	423
	Sprung hinged anchor	425
	Heavy-duty anchor	426
	Bolt tie	427
	Ceiling hooks	429
	Ring eyelet	430
	GOLDEN SPRINT	431
	Hexagonal wood screw DIN 571	433
	Hexagonal bolt ISO 4017	434

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Always indicate the item number when ordering.

Steel nail

Type	Dimension L mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
362 16 BK	16	2	20000		100	0.040	**3353 16 8**
362 18 BK	18	2	20000		100	0.050	**3353 18 4**
362 23 BK	23	2	20000		100	0.060	**3353 23 0**
362 30 BK	30	2	20000		100	0.080	**3353 30 3**
362 40 BK	40	2	10000		100	0.100	**3353 40 0**
362 50 BK	50	2	10000		100	0.130	**3353 50 8**
362 60 BK	60	2	8000		100	0.150	**3353 60 5**

St Steel Bright /100 pc.

Hardened steel, blue tempered, with bead head.

Type	Dimension L mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
362 Z 16 G	16	2	20000		100	0.040	**3354 16 4**
362 Z 18 G	18	2	20000		100	0.050	**3354 18 0**
362 Z 23 G	23	2	20000		100	0.060	**3354 23 7**
362 Z 30 G	30	2	20000		100	0.080	**3354 29 6**
362 Z 40 G	40	2	10000		100	0.100	**3354 40 7**
362 Z 50 G	50	2	10000		100	0.130	**3354 50 4**
362 Z 60 G	60	2	8000		100	0.150	**3354 60 1**

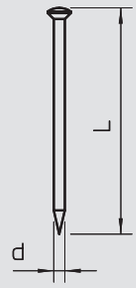
St Steel G Electrogalvanised /100 pc.

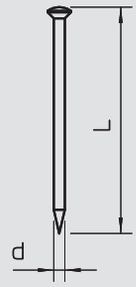
Hardened steel, electrogalvanised, with bead head.

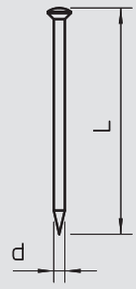
Type	Dimension L mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1996 N 25	25	3	10000		100	0.120	**3369 00 3**
1996 N 40	40	3	4000		100	0.220	**3369 00 5**
1996 N 60	60	3.5	1000		100	0.400	**3369 02 1**

St Steel G Electrogalvanised /100 pc.

Hardened steel with bead head.







Impu steel nail

Type	Dimension L mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
500 12	12	2	20000		100	0.040	**3360 12 1**
500 16	16	2	20000		100	0.050	**3360 16 4**
500 18	18	2	20000		100	0.060	**3360 18 0**
500 23	23	2	10000		100	0.060	**3360 23 7**
500 30	30	2	10000		100	0.080	**3360 29 6**
500 40	40	2	12000		100	0.110	**3360 40 7**
500 50	50	2	9000		100	0.130	**3360 50 4**
500 60	60	2	9000		100	0.150	**3360 60 1**

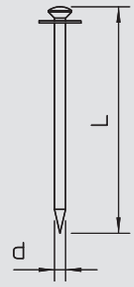
St Steel Bright /100 pc.

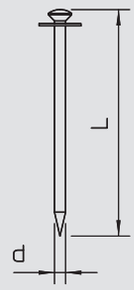
Hardened steel, blue tempered, with vulcanised fibre disc.

Type	Dimension L mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
500 Z 12	12	2	20000		100	0.040	**3361 12 8**
500 Z 16	16	2	20000		100	0.050	**3361 16 0**
500 Z 18	18	2	20000		100	0.060	**3361 18 7**
500 Z 23	23	2	10000		100	0.070	**3361 23 3**
500 Z 30	30	2	10000		100	0.090	**3361 30 6**
500 Z 40	40	2	12000		100	0.110	**3361 40 3**
500 Z 50	50	2	9000		100	0.130	**3361 50 0**
500 Z 60	60	2	9000		100	0.150	**3361 60 8**

St Steel G Electrogalvanised /100 pc.

Hardened steel, electrogalvanised, with vulcanised fibre disc.





Always indicate the item number when ordering.

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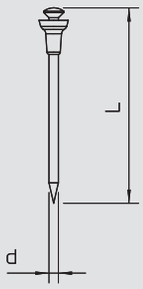
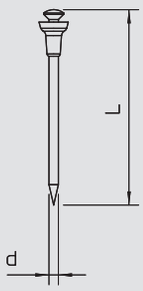
Siko nail



Type	Dimension L mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
511 12	12	2	20000		100	0.040	**3366 11 1**
511 16	16	2	20000		100	0.050	**3366 16 2**
511 18	18	2	20000		100	0.050	**3366 18 9**
511 23	23	2	10000		100	0.060	**3366 23 5**
511 30	30	2	10000		100	0.080	**3366 30 8**
511 40	40	2	12000		100	0.100	**3366 40 5**
511 50	50	2	8000		100	0.130	**3366 50 2**
511 60	60	2	9000		100	0.150	**3366 59 6**

St Steel Bright /100 pc.

Hardened steel, blue tempered, with polyethylene safety head.



Type	Dimension L mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
511 Z 12	12	2	20000		100	0.040	**3367 12 6**
511 Z 16	16	2	20000		100	0.050	**3367 16 9**
511 Z 18	18	2	20000		100	0.050	**3367 18 5**
511 Z 23	23	2	10000		100	0.060	**3367 23 1**
511 Z 30	30	2	10000		100	0.080	**3367 30 4**
511 Z 40	40	2	12000		100	0.100	**3367 40 1**

St Steel G Electrogalvanised /100 pc.

Hardened steel, electrogalvanised, with polyethylene safety head.

Hook nail

Type	Dimension L mm	Dimension d mm	Dimension B mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1101 3x40	40	3	18	4000		250	0.290	**3341 04 6**
1101 3x50	50	3	18	4000		250	0.340	**3341 05 4**
1101 3x60	60	3	18	3000		250	0.400	**3341 06 2**
1101 3x70	70	3	18	3000		250	0.470	**3341 07 0**
1101 3.4x50	50	3.4	18	3000		250	0.450	**3341 49 6**
1101 3.4x60	60	3.4	18	3000		250	0.550	**3341 60 7**
1101 3.4x70	70	3.4	18	3000		250	0.670	**3341 70 4**
1101 3.4x80	80	3.4	18	2500		250	0.680	**3341 80 1**
1101 3.4x90	90	3.4	18	2500		250	0.760	**3341 90 9**
1101 3.4x100	100	3.4	18	2000		250	0.820	**3341 99 2**

St Steel Bright /100 pc.

Hardened steel, blue tempered, with 18 mm hook on the head.

Type	Dimension L mm	Dimension d mm	Dimension B mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
1101 Z 40 G	40	3	18	4000		250	0.290	**3342 04 2**
1101 Z 50 G	50	3	18	4000		250	0.360	**3342 05 0**
1101 Z 60 G	60	3	18	3000		250	0.400	**3342 06 9**
1101 Z 70 G	70	3	18	3000		250	0.470	**3342 07 7**
1101 Z3.4x50 G	50	3.4	18	3000		250	0.460	**3342 50 6**
1101 Z3.4x60 G	60	3.4	18	3000		250	0.550	**3342 60 3**
1101 Z3.4x70 G	70	3.4	18	3000		250	0.600	**3342 70 0**
1101 Z3.4x80 G	80	3.4	18	2500		250	0.670	**3342 80 8**

St Steel G Electrogalvanised /100 pc.

Steel, galvanised, with 18 mm hook on the head.

Steel wall hook

Type	Dimension L mm	Dimension d mm	Dimension B mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
716 3X50 BK	50	3	18	2400		100	0.420	**3347 05 2**
716 3X60 BK	60	3	18	2000		100	0.490	**3347 06 0**
716 3X70 BK	70	3	18	2000		100	0.550	**3347 07 9**

St Steel Bright /100 pc.

Steel, bright (St), hardened, blue tempered, made of square bar steel.

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Always indicate the item number when ordering.

OBO anchor

Type	Shank length mm	Dimension L mm	Dimension D Ø mm	Dimension G mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
904 A 15 FS	15	22	3.35	M4	6000	50	0.180	**3116 15 8**

St Steel G Electrogalvanised /100 pc.

Hardened steel, electrogalvanised with M4 x 7 mm thread.

Type	Shank length mm	Dimension L mm	Dimension D Ø mm	Dimension G mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
904 B 15 FS	15	26	3.35	M4	5000	50	0.200	**3117 15 4**
904 B 18 FS	18	29	3.35	M4	5000	50	0.220	**3117 18 9**

St Steel G Electrogalvanised /100 pc.

Hardened steel, electrogalvanised with M4 x 11 mm thread.

Type	Shank length mm	Dimension L mm	Dimension D Ø mm	Dimension G mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
903 15 G	15	23	4	M6	3000	100	0.330	**3100 15 4**
903 18 G	18	26	4	M6	3000	100	0.360	**3100 18 9**
903 25 G	25	33	4	M6	3000	100	0.400	**3100 25 1**
903 30 G	30	38	4	M6	2000	100	0.470	**3100 30 8**
903 40 G	40	48	4	M6	2000	100	0.570	**3100 40 5**
903 55 G	55	63	4	M6	1800	100	0.720	**3100 55 3**

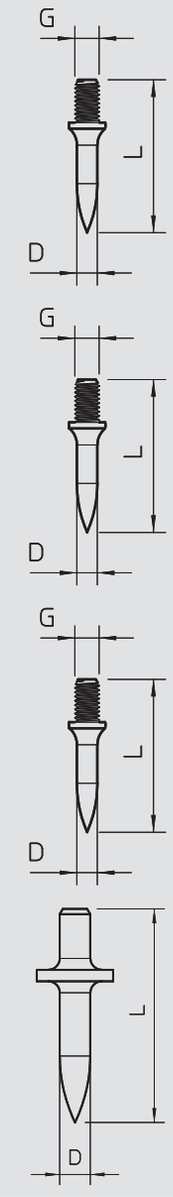
St Steel G Electrogalvanised /100 pc.

Hardened steel, electrogalvanised with M6 x 8 mm thread.

Type	Shank length mm	Dimension L mm	Dimension D Ø mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
903 RB 15	15	21	4	6000	200	0.300	**3105 01 6**
903 RB 18	18	24	4	4000	200	0.350	**3105 02 4**
903 RB 22	22	30	4	4000	200	0.330	**3105 03 2**

St Steel /100 pc.

Hardended steel, shiny without thread.

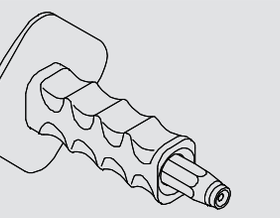


Flattener with hand protection

Type	Suitable for	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
915 RBS M4	903/RB anchors	12	1	50.000	**3031 50 0**

St Steel /pc.

Flattener with hand protection for OBO anchors 903/RB Ø 4 mm and also for OBO anchors 904 with M4 thread.

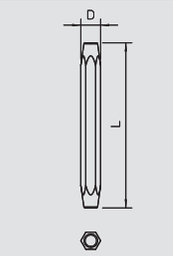


Flattener

Type	Dimension L mm	Dimension D mm	Suitable for	Size	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
915 S M6	135	14	Anchor 903	M6	120	20	17.000	**3031 01 2**

St Steel /pc.

Flattener for OBO anchors 903 with M6 thread.



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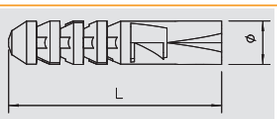
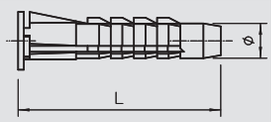


Angler spreading anchor

Type	Dimension L mm	Bore hole depth mm	Bore hole Ø mm	Wood screws Ø mm	Dowel Ø mm	Pull-out force N min/concrete	Pack. pcs	Weight kg/100 pcs.	Item No.
910 N 5x25 GRW	25	30	5	2,5-4	5	300	100	0.050	**2349 04 3**
910 N 6x30 GRW	30	35	6	3,5-5	6	550	100	0.050	**2349 05 1**
910 N 6x60 GRW	60	65	6	3,5-5	6	550	100	0.080	**2349 07 8**
910 N 8x40 GRW	40	45	8	4,5-6	8	800	100	0.140	**2349 08 6**
910 N 10x50 GRW	50	55	10	6-8	10	1150	50	0.310	**2349 10 8**
910 N 12x60 GRW	60	65	12	8-10	12	1900	25	0.460	**2349 12 4**

PA Polyamide /100 pc.

Required minimum screw length = anchor length + component thickness + 1 x screw Ø.
Withdrawal force applies to wood screws of the largest screw diameter, required safety values must be taken into account.

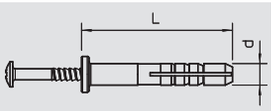


Multipurpose anchor

Type	Dowel Ø mm	Dimension L mm	Bore hole depth mm	Bore hole Ø mm	Wood screws Ø mm	Pull-out force N min/concrete	Pack. pcs	Weight kg/100 pcs.	Item No.
910 MZ 5x30	5	30	45	5	2,5-4	300	100	0.040	**2347 52 3**
910 MZ 6x35	6	35	50	6	4-5	400	100	0.060	**2347 53 9**
910 MZ 8x50	8	50	60	8	5-6	500	100	0.160	**2347 54 7**
910 MZ 10x60	10	60	70	10	6-8	1000	50	0.280	**2347 55 5**
910 MZ 12x70	12	70	80	12	8-10	1530	25	0.430	**2347 57 0**

PA Polyamide /100 pc.

Also suitable as a cavity anchor, with collars to prevent slipping (not for 12 mm anchor). Four tabs take up the torque.
Required minimum screw length = anchor length + component thickness + 1 x screw Ø.
Withdrawal force applies to wood screws of the largest screw diameter, required safety values must be taken into account.

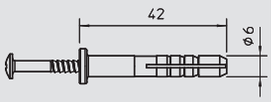


Knock-in anchor

Type	Dowel Ø mm	Length mm	Pull-out force N min/concrete		Pack. pcs	Weight kg/100 pcs.	Item No.
910 SD 5X35	5	35	220		100	0.360	**2351 02 1**
910 SD 6X35	6	35	260		100	0.310	**2351 05 6**
910 SD 6X40	6	40	260		100	0.560	**2351 06 4**
910 SD 8X55	8	55	350		50	1.070	**2351 09 9**

PA Polyamide /100 pc.

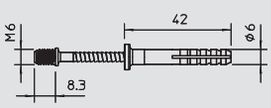
Knock-in anchor: steel, electrogalvanised and transparently passivated.



Type	Dowel Ø mm	Length mm		Pack. pcs	Weight kg/100 pcs.	Item No.
910 SD-Q 6x40	6	40		100	0.480	**2351 21 8**

PA Polyamide /100 pc.

Knock-in anchor for Quick clips type 2955.
Knock-in anchor: steel, tempered, electrogalvanised and transparently passivated.



Type	Thread	Dowel Ø mm	Length mm	Pull-out force N min/concrete		Pack. pcs	Weight kg/100 pcs.	Item No.
910 SDM M6	M6	6	40	260		100	0.480	**2350 80 7**

PA Polyamide /100 pc.

With M6 thread.
Knock-in anchor: steel, tempered, electrogalvanised and transparently passivated.

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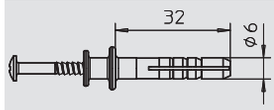
Double-flange anchor

Type	Dowel Ø mm	Length mm	Bore hole depth mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
910 DF 6x35	6	35	40	1200		100	0.430	**2347 40 7**

PA Polyamide /100 pc.

Knock-in anchor: steel, tempered, electrogalvanised and transparently passivated.

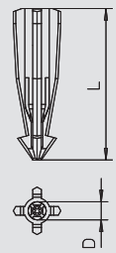


Gas concrete anchor

Type	Dimension D mm	Dimension L mm	Colour		Pack. pcs	Weight kg/100 pcs.	Item No.
910 GD 6x35	6	35	Light grey		100	0.100	**2347 22 9**
910 GD 8x50	8	50	Light grey		50	0.310	**2347 26 1**

PA Polyamide /100 pc.

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 predrilled.
Screw length: Component thickness + 40 mm (6 mm) / 55 mm (8 mm).

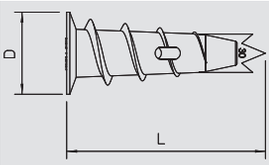


Plasterboard anchor

Type	Dimension D mm	Dimension L mm	For screw diameter Ø	Perm. load range, tension zone kN		Pack. pcs	Weight kg/100 pcs.	Item No.
910 GKDM 12x30	12	30	4.5	0.04		100	0.400	**3483 21 4**

Zn Die-cast zinc /100 pc.

To fasten components to plasterboard or fibre composite plates.
Minimum plate thickness: 12 mm
for Ø 4.5 Golden Sprint or Sprint screws.

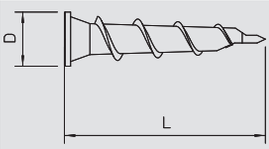


Plasterboard anchor

Type	Dimension D mm	Dimension L mm	Perm. load range, tension zone kN		Pack. pcs	Weight kg/100 pcs.	Item No.
910 GKSM 6x25	7.5	26.4	0.04		100	0.160	**3483 23 9**

Zn Die-cast zinc /100 pc.

To fasten components to plasterboard or fibre composite plates.
Min. plate thickness: 5 mm.

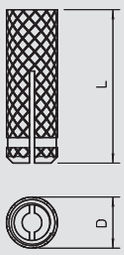


Brass spreading anchor

Type	Bore hole depth mm	Shipping box pcs	Thread	Length mm	Pull-out value N		Pack. pcs	Weight kg/100 pcs.	Item No.
865 M6x24	32	2400	M6	24	6000		100	0.440	**3483 06 1**
865 M8x30	41	1000	M8	30	7000		100	0.870	**3483 08 8**
865 M10x34	53	600	M10	34	9000		100	1.320	**3483 09 6**

CuZn Brass /100 pc.

Areas of application: full brick, concrete, wood. Ideally suited for areas exposed to high temperatures.

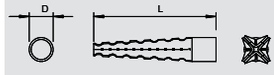


Metal spreading anchor

Type	Dimension D mm	Dimension L mm	Shipping box pcs	Bore hole Ø mm		Pack. pcs	Weight kg/100 pcs.	Item No.
MD 5 GTP	5	30	2400	5-7		200	0.190	**3484 60 2**
MD 6 GTP	6	32	1400	7-9		100	0.250	**3484 62 9**

St Steel GTP Electrogalvanised, transparently passivated /100 pc.

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.



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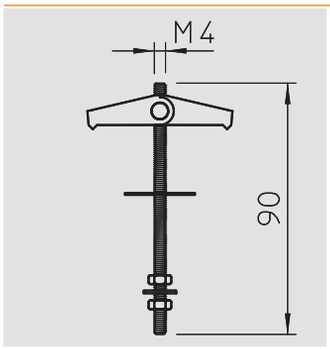
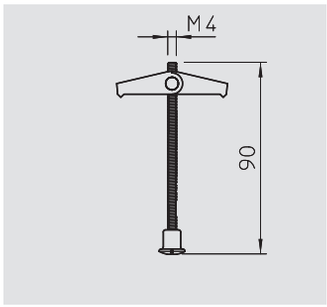


Sprung hinged anchor

Type	Shipping box pcs	Thread	Length mm	Bore hole Ø mm	Minimum cavity depth mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
450 M4x95 G	500	M4	95	14	35	0.2	50	1.750	**3481 61 1**

St Steel G Electrogalvanised /100 pc.

With threaded rod, washer and hexagonal nut; brass axle.

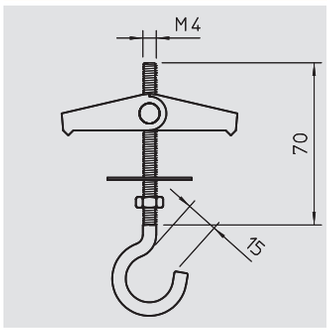


Sprung hinged anchor

Type	Shipping box pcs	Thread	Length mm	Minimum cavity depth mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
451 M4x95 G	500	M4	95	35	0.2	50	1.700	**3481 66 2**

St Steel G Electrogalvanised /100 pc.

With threaded rod and slotted brass nut; brass axle.

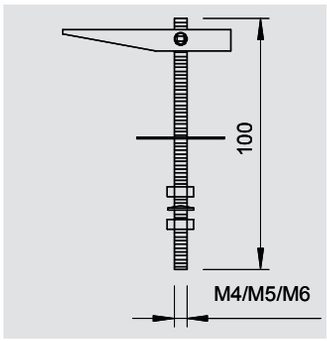


Sprung hinged anchor

Type	Shipping box pcs	Thread	Length mm	Bore hole Ø mm	Minimum cavity depth mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
452 M4x70 G	500	M4	70	14	35	0.4	50	1.950	**3481 77 8**

St Steel G Electrogalvanised /100 pc.

With ceiling hook, washer and hexagonal nut; brass axle.

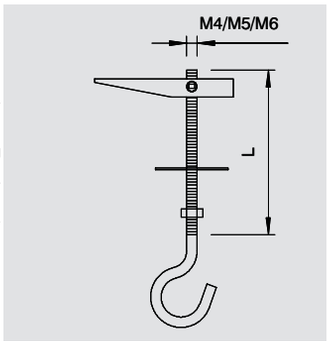


Tilting anchor

Type	Bore hole Ø mm	Shipping box pcs	Thread	Length mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
458 M4x100 G	13	400	M4	100	0.5	50	3.310	**3482 15 4**
456 M5x100 G	13	400	M5	100	0.8	50	3.810	**3482 10 3**
453 M6x100 G	16	300	M6	100	1.3	50	5.250	**3482 01 4**

St Steel G Electrogalvanised /100 pc.

Two washers and two hexagonal nuts, with threaded shank.



Tilting anchor

Type	Dimension L mm	Bore hole Ø mm	Shipping box pcs	Hook-Ø mm	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
457 M4x55 G	55	13	400	14	M4	0.25	50	3.250	**3482 13 8**
455 M5x65 G	65	13	300	16	M5	0.4	50	3.850	**3482 05 7**
455 M5x100 G	100	13	300	16	M5	0.4	50	4.250	**3482 07 3**
454 M6x100 G	100	16	150	16	M6	0.8	25	6.000	**3482 03 0**

St Steel G Electrogalvanised /100 pc.

One washer and one hexagonal nut, with ceiling hook.
Note: Reckon with 5x safety for luminaire suspensions.

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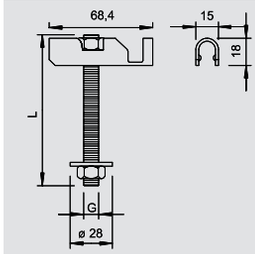
Always indicate the item number when ordering.

Tilting anchor

Type	Thread	Dimension L mm	Bore hole Ø mm	Tensile load kN	Minimum cavity depth mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
KD 8 100	M8	100	22	2.4	75	25		25	11.200	**3482 70 7**
KD 10 100	M10	100	25	2.4	75	25		25	11.200	**3482 75 8**
KD 10 150	M10	150	25	2.4	75	25		25	13.500	**3482 76 6**

St Steel G Electrogalvanised /100 pc.

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.



Impact tie

Type	Thread	Dimension D mm	Dimension L mm	Screw-in depth min.-max. mm	Perm. load range, tension zone kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
FZEA II 10X40 G	M8	10	40	11-17	1.6	500		100	1.550	**3492 03 6**
FZEA II 12X40 G	M10	12	40	13-19	3	500		100	2.080	**3492 06 0**
FZEA II 14X40 G	M12	14	40	15-21	3.6	250		50	2.750	**3492 09 5**

St Steel G Electrogalvanised /100 pc.

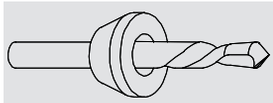
Undercut steel anchor with internal thread.

Universal drill

Type	Bore hole Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
FZUB 10X40	10	10		1	11.800	**3492 33 8**
FZUB 12X40	12	10		1	12.200	**3492 36 2**
FZUB 14X40	14	10		1	12.500	**3492 39 7**

St Steel Bright /pc.

The universal drill for SDS seats guarantees correct, approved mounting of the FZEA tie.



Impact mandrel

Type	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
FZED 10X40 G	5		5	10.500	**3492 62 1**
FZED 12X40 G	5		5	17.800	**3492 66 4**
FZED 14X40 G	5		5	25.000	**3492 69 9**

St Steel G Electrogalvanised /pc.

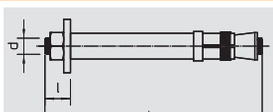
The impact mandrel guarantees correct, approved mounting of the FZEA tie.

Heavy-duty anchor

Type	Thread	Dimension L mm	Dimension d mm	Clamping range mm	Perm. load range, tension zone kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
FH II 18X80	M12	120	18	10	9.91	10		10	20.000	**3498 74 3**

St Steel G Electrogalvanised /100 pc.

Heavy-duty anchor for fastening components with large loads.

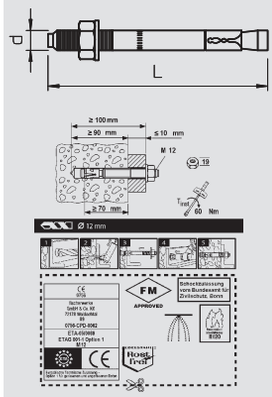


Bolt tie

Type	Thread	Dimension L mm	Dimension d mm	Clamping range mm	Perm. load range, tension zone kN	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
FAZ II 8 10 GS	M8	75	8	10	2.4	250		50	3.720	**3498 50 6**
FAZ II 10 10 GS	M10	95	10	10	4.3	50		50	7.680	**3498 54 9**
FAZ II 10 30	M10	115	10	30	4.3	25		25	7.520	**3498 58 1**
FAZ II 12 10	M12	110	12	10	7.6	20		20	10.400	**3498 65 4**

St Steel G Electrogalvanised /100 pc.

Bolt tie for fastening high loads. Matches OBO mounting systems and wall support brackets and supports.



Always indicate the item number when ordering.

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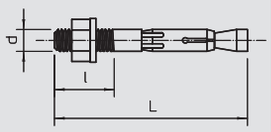
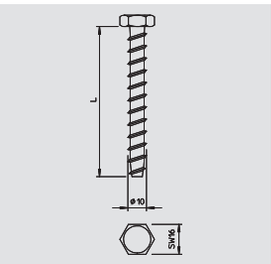


Bolt tie

Type	Thread	Dimension d mm	Dimension l mm	Bore hole depth mm	Dimension L mm	Pack. pcs	Weight kg/100 pcs.	Item No.
FNA II 6X30 M6/5	M6	6	13	40	53	100	1.400	**3498 42 5**

St Steel G Electrogalvanised /100 pc.

Bolt tie with M6 thread. European technical approval for concrete. Fire resistance class to F120 according to fire protection testing report.

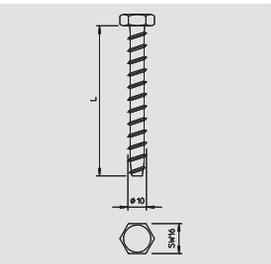


Bolt tie

Type	Dimension mm	Dimension L mm	Anchor length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS10X80	10 x 80	80	80	50	3.800	**3498 12 3**

St Steel G Electrogalvanised /100 pc.

Fire protection concrete bolt with hexagonal head for direct mounting without additional anchor. WAF 16. Drill hole 8 mm. Fire protection tested according to DIN 4102 for concrete and masonry. Fire resistance class to F90.

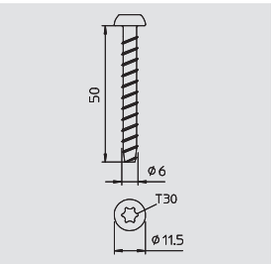


Bolt tie

Type	Dimension mm	Dimension L mm	Anchor length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS10X100	10 x 100	100	100	50	4.600	**3498 15 8**

St Steel G Electrogalvanised /100 pc.

Fire protection concrete bolt with hexagonal head for direct mounting without additional anchor. WAF 16. Drill hole 8 mm. Fire protection tested according to DIN 4102 for concrete and masonry. Fire resistance class to F90.

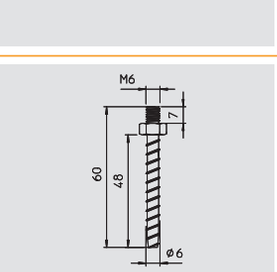


Bolt tie

Type	Dimension mm	Dimension L mm	Anchor length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS6X50	6 x 50	50	50	100	0.960	**3498 10 7**

St Steel GC Electrogalvanised, yellow-chromated /100 pc.

Fire protection bolt tie with panhead for direct installation without additional anchors. Drive T30, drill hole 5 mm. Fire protection tested according to DIN 4102 for concrete and masonry.

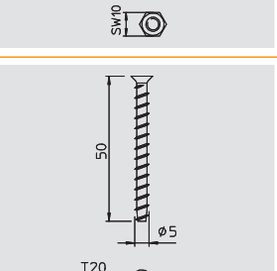


Bolt tie

Type	Dimension mm	Dimension L mm	Anchor length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
MMS-ST6X60	6 x 60	60	60	100	1.400	**3498 26 3**

St Steel G Electrogalvanised /100 pc.

Fire protection bolt tie with M6 thread and hexagonal head for direct mounting without additional anchors. WAF 10, drill hole 5 mm. Fire protection tested according to DIN 4102 for concrete and masonry. Fire resistance class to F90.



Bolt tie

Type	Dimension mm	Dimension L mm	Anchor length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
HMS-KS5X50	5 x 50	50	50	200	0.460	**3498 20 4**

St Steel G Electrogalvanised /100 pc.

Fire protection bolt tie with countersunk cone head for direct installation without additional anchors. Drive T20, drill hole 4 mm. Fire protection tested according to DIN 4102 for concrete and masonry. Fire resistance class to F90.

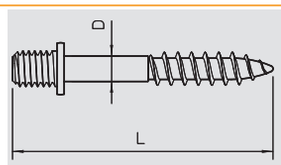
Always indicate the item number when ordering.

Screw-in anchor M6

Type	Thread length mm	Dimension D mm	Dimension L mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
985 M6 25	8	4.3	25	3000		100	0.410	**3133 02 8**
985 M6 35	8	4.3	35	2000		100	0.530	**3133 03 6**

St Steel G Electrogalvanised /100 pc.

With wood screw shank and M6 thread.

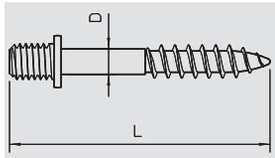


Screw-in anchor M8

Type	Thread length mm	Dimension D mm	Dimension L mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
985 M8 35	10	5.2	35	1200		100	1.290	**3133 23 0**

St Steel G Electrogalvanised /100 pc.

With wood screw shank and M8 thread.

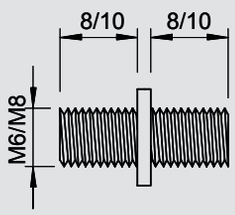


Double nipple

Type	Thread	Thread length mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
3100 M6 G	M6	8	3000		100	0.360	**3131 06 8**
3100 M8 G	M8	10	2000		100	0.680	**3131 08 4**

St Steel G Electrogalvanised /100 pc.

Double nipple with metric thread.



Threaded rod

Type	Thread	Dimension d mm	Dimension L mm	Breaking load kN		Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M6 1M G	M6	6	1000	8.04		100	18.300	**3141 04 7**
2078 M8 1M G	M8	8	1000	14.6		50	30.000	**3141 12 8**
2078 M10 1M G	M10	10	1000	23.2		25	49.000	**3141 20 9**
2078 M12 1M G	M12	12	1000	33.7		20	100.000	**3141 30 6**
2078 M8 2M G	M8	8	2000	14.6		25	60.000	**3141 13 6**
2078 M10 2M G	M10	10	2000	23.2		25	98.000	**3141 14 0**
2078 M12 2M G	M12	12	2000	33.7		20	140.000	**3141 14 4**
2078 M8 3M G	M8	8	3000	14.6		25	90.000	**3141 13 8**
2078 M10 3M G	M10	10	3000	23.2		20	147.000	**3141 23 3**

St Steel G Electrogalvanised /100 pc.

Threaded rod to DIN 976.

Threaded rod V2A

Type	Thread	Dimension d mm	Dimension L mm	Breaking load kN		Pack. pcs	Weight kg/100 pcs.	Item No.
2078 M8 1M V2A	M8	8	1000	18.3		50	30.000	**3141 31 0**
2078 M10 1M V2A	M10	10	1000	29		25	49.000	**3141 31 2**
2078 M12 1M V2A	M12	12	1000	42.2		20	70.000	**3141 31 4**

V2A Stainless steel, grade 304 /100 pc.

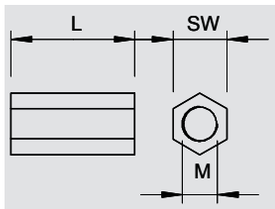
Threaded rod to DIN 976.

Spacer sleeve

Type	Dimension M	Dimension L mm	Shipping box pcs	Thread	SW mm	Pack. pcs	Weight kg/100 pcs.	Item No.
965 M6X20 G	M6	20	1000	M6	10	100	0.900	**3415 03 1**
965 M6X25 G	M6	25	1000	M6	10	100	1.000	**3415 06 6**
965 M6X30 G	M6	30	1000	M6	10	100	1.200	**3415 08 2**
965 M6X40 G	M6	40	600	M6	10	100	1.500	**3415 10 4**
965 M6X50 G	M6	50	600	M6	10	100	2.000	**3415 12 0**
965 M8X20 G	8	20	1000	M8	13	100	1.200	**3415 14 7**
965 M8X30 G	M8	30	600	M8	13	100	1.800	**3415 16 3**

Zn Die-cast zinc G Electrogalvanised /100 pc.

Continuous internal thread.



Always indicate the item number when ordering.

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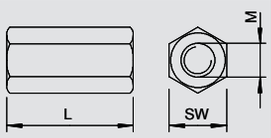
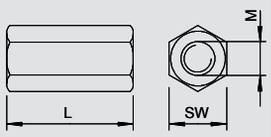


Connection sleeve

Type	Thread	Dimension M	Dimension L mm	SW mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
12005 M8 G	M8	8	30	13	600	50	2.000	**6410 08 1**
12005 M10 G	M10	M10	40	17	200	50	6.000	**6410 10 3**
12005 M12 G	M12	M12	40	19	150	25	7.000	**6410 11 1**

St Steel G Electrogalvanised /100 pc.

Connection sleeve with continuous internal thread.

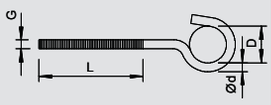


Connection sleeve V2A

Type	Thread	Dimension M	Dimension L mm	SW mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
12005 M8 V2A	M8	M8	30	13	600	50	2.000	**6410 15 4**
12005 M10 V2A	M10	M10	40	17	200	50	6.000	**6410 16 2**

V2A Stainless steel, grade 304 /100 pc.

Connection sleeve with continuous internal thread.

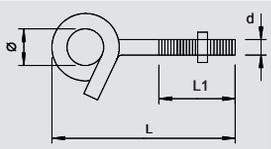


Ceiling hook

Type	Dimension L mm	Dimension D mm	Shipping box pcs	Length mm	Thread	Dimension d Ø mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
867 M5X125 G	90	16	1000	125	M5	4.3	0.4	100	1.730	**3470 14 8**
867 M6X 95 G	55	16	1000	95	M6	5.2	0.8	100	2.100	**3470 21 0**
867 M6X125 G	85	16	400	125	M6	5.2	0.8	100	2.760	**3470 23 7**

St Steel G Electrogalvanised /100 pc.

Ceiling hook with long metric thread.

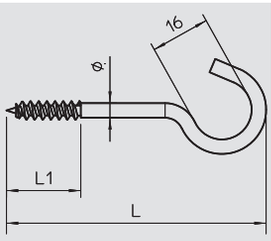


Ceiling hook

Type	Thread	Dimension d mm	Dimension L mm	Dimension L1 mm	Dimension d Ø mm	Washer Ø mm	Breaking load kN	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
948 TG6	M6	6	70	46	13	28	1	150	25	5.000	**3453 82 0**

St Steel G Electrogalvanised /100 pc.

Tightly wound ceiling hook. Including two large washers and nuts.

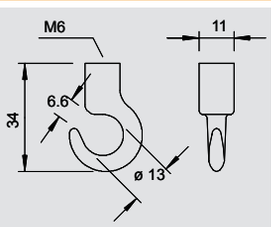


Ceiling hook

Type	Dimension L mm	Dimension L1 mm	Shipping box pcs	Material Ø mm	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
915 3.9x50 G	50	20	1200	3.9	0.15	100	0.720	**3450 05 8**
915 3.9x60 G	60	20	1200	3.9	0.15	100	0.800	**3450 06 6**
915 3.9x70 G	70	20	1200	3.9	0.15	100	0.880	**3450 07 4**
915 3.9x80 G	80	20	1200	3.9	0.15	100	0.910	**3450 08 2**
915 3.9x90 G	90	20	1200	3.9	0.15	100	1.080	**3450 09 0**
915 3.9x100 G	100	20	1000	3.9	0.15	100	1.190	**3450 10 4**
915 4.3x120 G	120	24	1000	4.3	0.2	100	1.660	**3450 12 0**

St Steel G Electrogalvanised /100 pc.

Ceiling hook with rolled wood screw thread.



Ceiling hook

Type	Shipping box pcs	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
2081 M6 G	600	M6	1.35	100	1.260	**3460 16 9**

St Steel G Electrogalvanised /100 pc.

Ceiling hook with metric internal thread.

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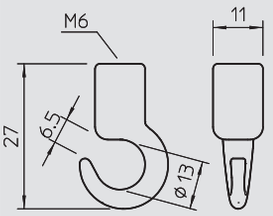
Ceiling hook

Type	Shipping box pcs	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
2081 K M6	1200	M6	1.6	100	0.900	**3460 06 1**

St Steel G Electrogalvanised /100 pc.

Ceiling hook with internal metric thread.

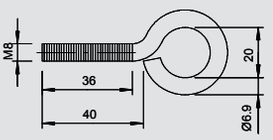


Frame eyelet

Type	Shipping box pcs	Length mm	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
869 M8X40 G	250	70	M8	2	25	3.540	**3472 08 6**

St Steel G Electrogalvanised /100 pc.

Frame eyelet M8 x 40 mm.

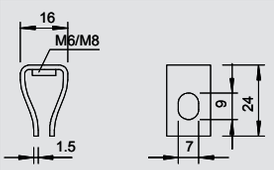


Rabitz coupler

Type	Shipping box pcs	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
2083 M6 G	1200	M6	4.5	100	1.090	**3462 06 4**
2083 M8 G	1200	M8	5.5	100	1.090	**3462 08 0**

St Steel G Electrogalvanised /100 pc.

Rabitz coupler with metric thread.

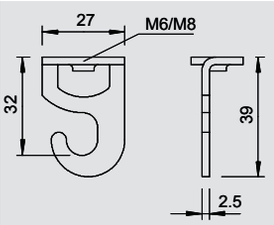


TS ceiling hook

Type	Thread	Shipping box pcs	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
2989 M6 G	M6	900	1.5	50	2.540	**3460 76 2**
2989 M8 G	M8	900	1.5	50	2.540	**3460 78 9**

St Steel G Electrogalvanised /100 pc.

TS ceiling hook with metric thread.

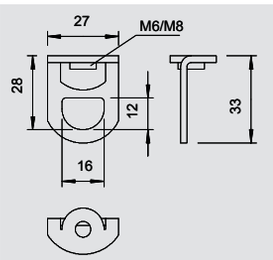


TS suspension eyelet

Type	Thread	Breaking load kN	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
2990 M6 G	M6	3.5	500	50	2.320	**3462 86 2**
2990 M8 G	M8	3.5	500	50	2.320	**3462 88 9**

St Steel G Electrogalvanised /100 pc.

Suspension eyelet with interior thread.



Ring eyelet

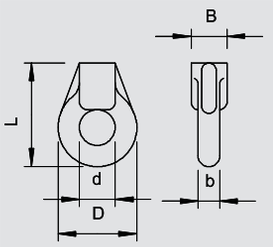
Type	Shipping box pcs	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
2084 M6 G	400	M6	1.15	100	2.200	**3463 56 7**
2084 M8 G	400	M8	1.15	100	2.100	**3463 58 3**

Zn Die-cast zinc G Electrogalvanised /100 pc.

Ring eyelet with metric internal thread.

Important dimensions, ring eyelet

G	L mm	D mm	d mm	B mm	b mm
M6	37.8	28.6	15	12	6.8
M8	37.8	28.6	15	12	6.8



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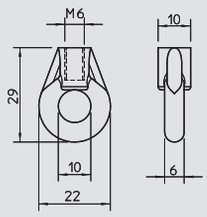
Always indicate the item number when ordering.



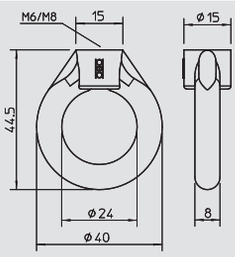
Ring eyelet

Type	Shipping box pcs	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
2084 K M6	1000	M6	1.15	100	1.500	**3463 06 0**

Zn Die-cast zinc G Electrogalvanised /100 pc.

Ring eyelet with metric internal thread.

G	L	D	d	B	b
	mm	mm	mm	mm	mm
M6	29	22	10	10	6

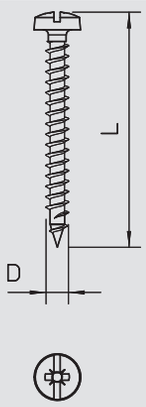


Suspension eyelet

Type	Shipping box pcs	Thread	Breaking load kN	Pack. pcs	Weight kg/100 pcs.	Item No.
2085 M6 G	200	M6	1.1	50	3.900	**3464 06 7**
2085 M8 G	200	M8	1.1	50	3.700	**3464 08 3**

Zn Die-cast zinc G Electrogalvanised /100 pc.

Suspension eyelet with metric thread.



GOLDEN SPRINT, with Philips screw

Type	Dimension L mm	Dimension D mm	Head Ø mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
4758 3.5x15	15	3.5	6.5	6000	200	0.070	**3195 00 7**
4758 3.5x20	20	3.5	6.5	6000	200	0.090	**3195 01 5**
4758 3.5x25	25	3.5	6.5	6000	200	0.120	**3195 02 3**
4758 3.5x30	30	3.5	6.5	6000	200	0.160	**3195 03 1**
4758 3.5x35	35	3.5	6.5	4000	200	0.170	**3195 05 8**
4758 3.5x40	40	3.5	6.5	3200	200	0.210	**3195 06 6**
4758 3.5x45	45	3.5	6.5	3200	200	0.220	**3195 07 4**
4758 3.5x50	50	3.5	6.5	3200	200	0.240	**3195 08 2**
4758 4.0X15	15	4	7.5	6000	200	0.100	**3195 20 1**
4758 4.0X20	20	4	7.5	6000	200	0.140	**3195 22 8**
4758 4.0X25	25	4	7.5	6000	200	0.180	**3195 23 6**
4758 4.0X30	30	4	7.5	4000	200	0.220	**3195 24 4**
4758 4.0X35	35	4	7.5	3200	200	0.250	**3195 25 2**
4758 4.0X40	40	4	7.5	3200	200	0.270	**3195 26 0**
4758 4.0X45	45	4	7.5	3200	200	0.280	**3195 27 9**
4758 4.0X50	50	4	7.5	2400	200	0.310	**3195 28 7**
4758 4.5x25	25	4.5	8.2	4000	200	0.240	**3195 42 2**
4758 4.5x30	30	4.5	8.2	4000	200	0.290	**3195 43 0**
4758 4.5x35	35	4.5	8.2	3200	200	0.300	**3195 44 9**
4758 4.5x40	40	4.5	8.2	3200	200	0.310	**3195 45 7**
4758 4.5x45	45	4.5	8.2	3200	200	0.350	**3195 46 5**
4758 4.5x50	50	4.5	8.2	2400	200	0.390	**3195 47 3**
4758 5.0X30	30	5	9.5	3200	200	0.380	**3195 63 5**
4758 5.0X35	35	5	9.5	3200	200	0.420	**3195 64 3**
4758 5.0X40	40	5	9.5	3200	200	0.450	**3195 65 1**
4758 5.0X45	45	5	9.5	2400	200	0.490	**3195 67 8**
4758 5.0X50	50	5	9.5	2400	200	0.530	**3195 68 6**
4758 5.0X60	60	5	9.5	2400	200	0.600	**3195 69 4**
4758 6.0X30	30	6	12	3200	200	0.600	**3195 91 0**
4758 6.0X40	40	6	12	2400	200	0.720	**3195 92 9**
4758 6.0X50	50	6	12	2400	200	0.830	**3195 93 7**
4758 6.0X60	60	6	12	2400	200	0.960	**3195 94 5**

St Steel GGP Electrogalvanised, yellow passivated /100 pc.

Hardened steel, electrogalvanised and yellow passivated, as well as Hostaflon-coated, panhead with combined Philips and slotted head (Pozidrive size 2 except Ø 6 mm Pozidrive 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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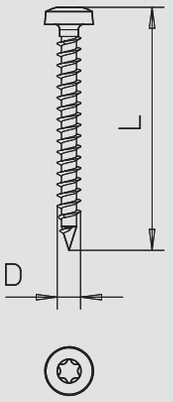
GOLDEN SPRINT, with Torx

Type	Dimension L mm	Dimension D mm	Head Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
4758T 3.5x15	15	3.5	6.5	6000		200	0.070	**3198 01 6**
4758T 3.5x20	20	3.5	6.5	6000		200	0.110	**3198 01 8**
4758T 3.5x25	25	3.5	6.5	6000		200	0.130	**3198 02 0**
4758T 3.5x30	30	3.5	6.5	6000		200	0.160	**3198 02 2**
4758T 3.5x35	35	3.5	6.5	4000		200	0.170	**3198 02 4**
4758T 3.5x40	40	3.5	6.5	3200		200	0.210	**3198 02 6**
4758T 4.0x15	15	4	7.5	6000		200	0.120	**3198 03 0**
4758T 4.0x20	20	4	7.5	6000		200	0.160	**3198 03 2**
4758T 4.0x25	25	4	7.5	6000		200	0.190	**3198 03 4**
4758T 4.0x30	30	4	7.5	4000		200	0.210	**3198 03 6**
4758T 4.0x35	35	4	7.5	3200		200	0.250	**3198 03 8**
4758T 4.0x40	40	4	7.5	3200		200	0.270	**3198 04 0**
4758T 4.0x45	45	4	7.5	3200		200	0.290	**3198 04 2**
4758T 4.0x50	50	4	7.5	2400		200	0.320	**3198 04 4**
4758T 4.5x30	30	4.5	8.2	4000		200	0.260	**3198 05 4**
4758T 4.5x35	35	4.5	8.2	3200		200	0.300	**3198 05 6**
4758T 4.5x40	40	4.5	8.2	3200		200	0.330	**3198 05 8**
4758T 4.5x45	45	4.5	8.2	3200		200	0.360	**3198 06 0**
4758T 4.5x50	50	4.5	8.2	2400		200	0.390	**3198 06 2**
4758T 5.0x30	30	5	9.5	3200		200	0.370	**3198 07 3**
4758T 5.0x35	35	5	9.5	3200		200	0.410	**3198 07 5**
4758T 5.0x40	40	5	9.5	3200		200	0.450	**3198 07 7**
4758T 5.0x45	45	5	9.5	2400		200	0.490	**3198 07 9**
4758T 5.0x50	50	5	9.5	2400		200	0.530	**3198 08 1**

St Steel GGP Electrogalvanised, yellow passivated /100 pc.

Hardened steel, electrogalvanised and yellow passivated, as well as Hostaflon-coated, panhead with T bit (Allen 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.

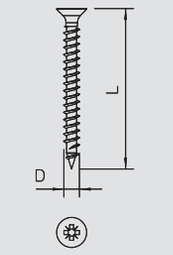


Sprint screw, with Philips slot

Type	Dimension L mm	Dimension D mm	Head Ø mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
4759 3.5x25	25	3.5	6.5	6000		200	0.110	**3192 11 3**
4759 3.5x30	30	3.5	6.5	6000		200	0.120	**3192 12 1**
4759 3.5x35	35	3.5	6.5	4000		200	0.140	**3192 14 8**
4759 3.5x40	40	3.5	6.5	3200		200	0.160	**3192 15 6**
4759 3.5x45	45	3.5	6.5	3200		200	0.180	**3192 16 4**
4759 3.5x50	50	3.5	6.5	3200		200	0.210	**3192 17 2**
4759 4.0X25	25	4	7.5	6000		200	0.150	**3192 21 0**
4759 4.0X30	30	4	7.5	4000		200	0.170	**3192 22 9**
4759 4.0X35	35	4	7.5	3200		200	0.190	**3192 23 7**
4759 4.0X40	40	4	7.5	3200		200	0.210	**3192 24 5**
4759 4.0X45	45	4	7.5	3200		200	0.240	**3192 25 3**
4759 4.0X50	50	4	7.5	2400		200	0.260	**3192 26 1**
4759 4.5x30	30	4.5	8.3	4000		200	0.240	**3192 33 4**
4759 4.5x35	35	4.5	8.3	3200		200	0.270	**3192 34 2**
4759 4.5x40	40	4.5	8.3	3200		200	0.300	**3192 35 0**
4759 4.5x45	45	4.5	8.3	3200		200	0.320	**3192 36 9**
4759 4.5x50	50	4.5	8.3	2400		200	0.360	**3192 37 7**
4759 5.0X30	30	5	9.2	3200		200	0.300	**3192 41 5**
4759 5.0X35	35	5	9.2	3200		200	0.360	**3192 42 3**
4759 5.0X40	40	5	9.2	3200		200	0.380	**3192 43 1**
4759 5.0X45	45	5	9.2	2400		200	0.430	**3192 45 8**
4759 5.0X50	50	5	9.2	2400		200	0.480	**3192 46 6**
4759 6.0X40	40	6	11	2400		200	0.570	**3192 62 8**
4759 6.0X50	50	6	11	2400		200	0.680	**3192 63 6**
4759 6.0X60	60	6	11	2400		200	0.790	**3192 64 4**

St Steel GGP Electrogalvanised, yellow passivated /100 pc.

Hardened steel, electrogalvanised and yellow passivated, as well as Hostaflon-coated, countersunk head with Philips head (Pozidrive size 2 except Ø 6 mm Pozidrive 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.



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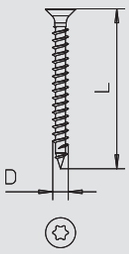
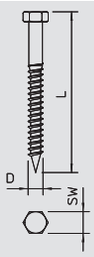


Sprint screw, with Torx

Type	Dimension L mm	Dimension D mm	Head Ø mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
4759T 3.0x15	15	3	5.6	6000	200	0.050	**3198 19 3**
4759T 3.0x25	25	3	5.6	6000	200	0.090	**3198 19 7**
4759T 3.0x30	30	3	5.6	6000	200	0.100	**3198 19 9**
4759T 3.5x15	15	3.5	6.5	6000	200	0.070	**3198 21 9**
4759T 3.5x20	20	3.5	6.5	6000	200	0.090	**3198 22 1**
4759T 3.5x25	25	3.5	6.5	6000	200	0.110	**3198 22 3**
4759T 3.5x30	30	3.5	6.5	6000	200	0.130	**3198 22 5**
4759T 3.5x35	35	3.5	6.5	4000	200	0.140	**3198 22 7**
4759T 3.5x40	40	3.5	6.5	3200	200	0.160	**3198 22 9**
4759T 3.5x50	50	3.5	6.5	3200	200	0.210	**3198 23 1**
4759T 4.0x15	15	4	7.5	6000	200	0.120	**3198 23 7**
4759T 4.0x20	20	4	7.5	6000	200	0.130	**3198 23 9**
4759T 4.0x25	25	4	7.5	6000	200	0.150	**3198 24 1**
4759T 4.0x30	30	4	7.5	4000	200	0.180	**3198 24 3**
4759T 4.0x35	35	4	7.5	3200	200	0.200	**3198 24 5**
4759T 4.0x40	40	4	7.5	3200	200	0.230	**3198 24 7**
4759T 4.0x45	45	4	7.5	3200	200	0.240	**3198 24 9**
4759T 4.0x50	50	4	7.5	2400	200	0.280	**3198 25 1**
4759T 4.5x30	30	4.5	8.2	4000	200	0.210	**3198 26 0**
4759T 4.5x35	35	4.5	8.2	3200	200	0.270	**3198 26 2**
4759T 4.5x40	40	4.5	8.2	3200	200	0.270	**3198 26 4**
4759T 4.5x45	45	4.5	8.2	3200	200	0.310	**3198 26 6**
4759T 4.5x50	50	4.5	8.2	2400	200	0.340	**3198 26 8**
4759T 5.0x30	30	5	9.5	3200	200	0.300	**3198 27 6**
4759T 5.0x35	35	5	9.5	3200	200	0.330	**3198 27 8**
4759T 5.0x40	40	5	9.5	3200	200	0.380	**3198 28 0**
4759T 5.0x45	45	5	9.5	2400	200	0.430	**3198 28 2**
4759T 5.0x50	50	5	9.5	2400	200	0.480	**3198 28 4**

St Steel GGP Electrogalvanised, yellow passivated /100 pc.

Hardened steel, electrogalvanised and yellow passivated, as well as Hostaflon-coated, countersunk head with T bit (Allen 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 benefit is achieved by the point with the first thread, which leads onto the double thread.
Areas of use: wood, chipboard, Rigips panels, plastic anchors.

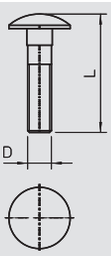


Hexagonal wood screw DIN 571

Type	Dimension L mm	Dimension D mm	SW mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
12400 6x40 G	40	6	10	1200	50	0.830	**3188 04 3**
12400 6x50 G	50	6	10	1000	50	0.960	**3188 05 1**
12400 6x60 G	60	6	10	1000	50	1.120	**3188 07 8**
12400 6x80 G	80	6	10	900	50	1.380	**3188 09 4**
12400 8x40 G	40	8	13	300	50	1.560	**3188 14 0**
12400 8x50 G	50	8	13	300	50	1.820	**3188 15 9**
12400 8x60 G	60	8	13	600	50	2.100	**3188 16 7**
12400 8x70 G	70	8	13	600	50	2.360	**3188 17 5**
12400 8x80 G	80	8	13	600	50	2.650	**3188 18 3**
12400 8x100 G	100	8	13	300	50	3.200	**3188 20 5**
12400 10x60 G	60	10	17	300	25	3.650	**3188 25 6**
12400 10x70 G	70	10	17	250	25	4.050	**3188 27 2**
12400 10x80 G	80	10	17	300	25	4.510	**3188 28 0**
12400 10x100 G	100	10	17	250	25	5.400	**3188 30 2**
12400 12x70 G	70	12	19	240	20	5.750	**3188 36 1**
12400 12x80 G	80	12	19	240	20	6.430	**3188 38 8**

St Steel G Electrogalvanised /100 pc.

Hexagonal screw to DIN 571 with wood thread. Suitable for anchors, type 910.



Truss-head bolt with combination nut, V2A

Type	Thread	Pack. pcs	Weight kg/100 pcs.	Item No.
FRSB 8x35 VA	M8	1	–	**3175 60 8**
FRSB 10x20 VA	M10	1	–	**3175 62 0**
FRSB 10x25 VA	M10	1	–	**3175 62 5**

V2A Stainless steel, grade 304 /100 pc.

Truss-head bolt with square neck and combination nut.

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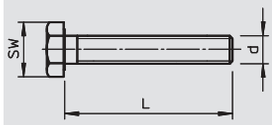
Hexagonal bolt ISO 4017

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm		Pack. pcs	Weight kg/100 pcs.	Item No.
342 M6X16 G	M6 x 16	16	6	10		100	0.490	**3156 14 1**
342 M6X20 G	M6 x 20	20	6	10		100	0.580	**3156 20 6**
342 M6X25 G	M6 x 25	25	6	10		100	0.670	**3156 25 7**
342 M6X30 G	M6 x 30	30	6	10		100	0.750	**3156 30 3**
342 M6X35 G	M6 x 35	35	6	10		100	0.840	**3156 35 4**
342 M6X40 G	M6 x 40	40	6	10		100	0.920	**3156 40 0**
342 M8X20 G	M8 x 20	20	8	13		100	1.230	**3158 20 9**
342 M8X25 G	M8 x 25	25	8	13		100	1.390	**3158 24 1**
342 M8X30 G	M8 x 30	30	8	13		100	1.550	**3158 30 6**
342 M8X40 G	M8 x 40	40	8	13		100	1.870	**3158 40 3**
342 M8X50 G	M8 x 50	50	8	13		100	2.180	**3158 50 0**
342 M10X20 G	M10 x 20	20	10	17		100	2.320	**3160 20 3**
342 M10X30 G	M10 x 30	30	10	17		100	2.820	**3160 30 0**
342 M10X40 G	M10 x 40	40	10	17		50	3.240	**3160 40 8**
342 M10X50 G	M10 x 50	50	10	17		50	3.820	**3160 50 5**
342 M10X60 G	M10 x 60	60	10	17		50	4.330	**3160 60 2**
342 M12X30 G	M12 x 30	30	12	19		50	4.020	**3162 30 3**
342 M12X40 G	M12 x 40	40	12	19		50	4.740	**3162 40 0**
342 M12X50 G	M12 x 50	50	12	19		50	5.450	**3162 50 8**

St Steel G Electrogalvanised /100 pc.

Hexagonal bolt to ISO 4017 with metric thread

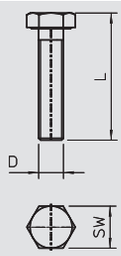


Hexagonal bolt DIN 933 V2A

Type	Dimension L mm	Dimension D mm	SW mm		Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 933 M10x45VA	45	10	17		1	3.370	**3156 04 0**
DIN 933 M12x45VA	45	10	19		1	4.850	**3156 04 2**
DIN 933 M16x50VA	50	16	–		1	10.300	**3156 04 4**

V2A Stainless steel, grade 304 /100 pc.

Hexagonal bolt according to DIN 933 with metric thread.

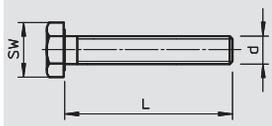


Hexagonal bolt DIN 933 V4A

Type	Dimension mm	Dimension L mm	Dimension d mm	SW mm		Pack. pcs	Weight kg/100 pcs.	Item No.
933 M6x16 V4A	M6 x 16	16	6	10		100	0.490	**3156 01 6**
933 M6x20 V4A	M6 x 20	20	6	10		100	0.580	**3156 01 8**
933 M6x25 V4A	M6 x 25	25	6	10		100	0.670	**3156 01 9**
933 M6x30 V4A	M6 x 30	30	6	10		100	0.750	**3156 02 0**
933 M6x35 V4A	M6 x 35	35	6	10		100	0.840	**3156 02 1**
933 M6x40 V4A	M6 x 40	40	6	10		100	0.920	**3156 02 2**
933 M8x20 V4A	M8 x 20	20	8	13		100	1.230	**3156 02 4**
933 M8x25 V4A	M8 x 25	25	8	13		100	1.390	**3156 02 5**
933 M8x30 V4A	M8 x 30	30	8	13		100	1.550	**3156 02 6**
933 M8x40 V4A	M8 x 40	40	8	13		600	1.870	**3156 02 7**
933 M8x50 V4A	M8 x 50	50	8	13		100	2.180	**3156 02 8**
933 M10x20 V4A	M10 x 20	20	10	17		100	2.320	**3156 03 1**
933 M10x30 V4A	M10 x 30	30	10	17		100	2.620	**3156 03 2**
933 M10x40 V4A	M10 x 40	40	10	17		50	3.120	**3156 03 3**
933 M10x50 V4A	M10 x 50	50	10	17		50	3.620	**3156 03 4**
933 M10x60 V4A	M10 x 60	60	10	17		50	4.130	**3156 03 5**
933 M12x30 V4A	M12 x 30	30	12	19		50	3.770	**3156 03 6**
933 M12x40 V4A	M12 x 40	40	–	19		50	4.740	**3156 02 9**
933 M12x50 V4A	M12 x 50	50	–	19		50	5.200	**3156 03 7**

V4A Stainless steel, grade 316 Ti /100 pc.

Hexagonal bolt M6 x 16 mm.

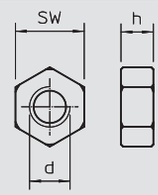


Hexagonal nut DIN 934

Type	Thread	SW mm	Dimension h mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M4 G	M4	7	3.2	4	10000		100	0.080	**3400 04 2**
DIN 934 M5 G	M5	8	4.7	5	5000		100	0.120	**3400 05 0**
DIN 934 M6 G	M6	10	5.2	6	2600		100	0.230	**3400 06 9**
DIN 934 M8 G	M8	13	6.8	8	2400		100	0.470	**3400 08 5**
DIN 934 M10 G	M10	17	8.4	10	1000		100	1.080	**3400 10 7**
DIN 934 M12 G	M12	19	10.8	12	600		100	1.730	**3400 12 3**

St Steel G Electrogalvanised /100 pc.

Hexagonal nut to DIN 934 with metric thread.



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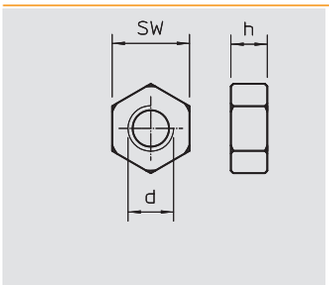
Always indicate the item number when ordering.

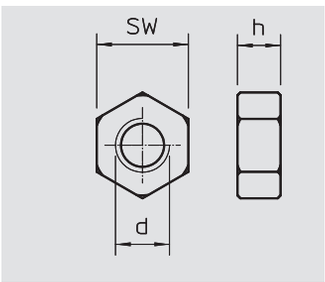


Hexagonal nut DIN 934 V2A

Type	Thread	SW mm	Dimension h mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M6 VA	M6	10	5.2	6	4000		100	0.250	**3397 06 8**
DIN 934 M8 VA	M8	13	6.8	8	2400		100	0.520	**3397 08 4**
DIN 934 M10 VA	M10	17	8.4	10	1000		100	1.160	**3397 10 6**
DIN 934 M12 VA	M12	19	10.8	12	600		100	1.730	**3397 11 4**

V2A Stainless steel, grade 304 /100 pc.

Hexagonal nut to DIN 934 with metric thread.

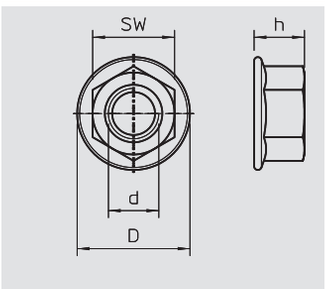


Hexagonal nut DIN 934 V4A

Type	Thread	SW mm	Dimension h mm	Dimension d mm	Shipping box pcs		Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 934 M6 V4A	M6	10	5.2	6	4000		100	0.250	**3400 17 3**
DIN 934 M8 V4A	M8	13	6.8	8	2400		100	0.520	**3400 17 5**
DIN 934 M10 V4A	M10	17	8.4	10	1000		100	1.080	**3400 17 7**
DIN 934 M12 V4A	M12	19	10.8	12	600		100	1.730	**3397 14 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Hexagonal nut to DIN 934 with metric thread.

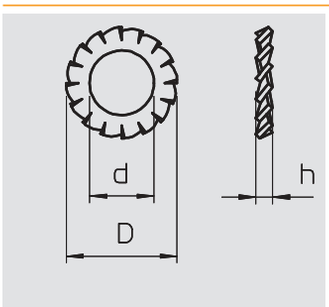


Hexagonal nut with underhead toothing DIN 6923 V2A

Type	Dimension d mm	SW mm		Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6923 M8 VA	8	13		1	—	**3156 12 0**
DIN 6923 M10 VA	10	17		1	—	**3156 12 2**
DIN 6923 M12 VA	12	19		1	—	**3156 12 6**

V2A Stainless steel, grade 304 /100 pc.

Combination nut with pressed washer.

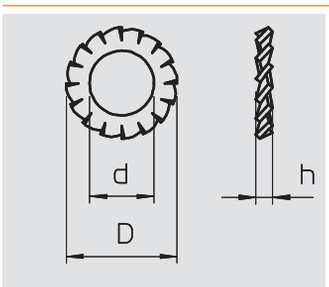


Serrated washer DIN 6798

Type	Dimension d mm	Dimension D mm	Dimension h mm		Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6798 A M5 G	5.3	10	1.8		100	0.020	**3404 05 6**
DIN 6798 A M6 G	6.4	11	2.1		100	0.040	**3404 06 4**
DIN 6798 A M8 G	8.4	15	2.4		100	0.080	**3404 08 0**
DIN 6798 A M10 G	10.5	18	2.7		100	0.130	**3404 10 2**
DIN 6798 A M12 G	13	20.5	3		100	0.160	**3404 12 9**

St Steel G Electrogalvanised /100 pc.

Serrated washer to DIN 6798, shape A.

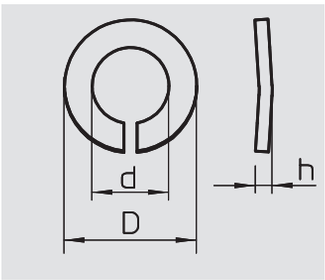


Serrated washer DIN 6798 V4A

Type	Dimension d mm	Dimension D mm	Dimension h mm		Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 6798 M6 V4A	6.4	11	2.1		100	0.040	**3404 37 3**
DIN 6798 M8 V4A	8.4	15	2.4		100	0.080	**3404 37 8**
DIN 6798 M10 V4A	10.5	18	2.7		100	0.130	**3404 38 2**
DIN 6798 M12 V4A	13	20.5	3		100	0.170	**3404 38 6**

V4A Stainless steel, grade 316 Ti /100 pc.

Serrated washer to DIN 6798, shape A.



Lock washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm		Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 128 A M6 G	M6	6.3	11.8	2.1		100	0.070	**3405 06 0**
DIN 128 A M8 G	M8	8.3	14.8	2.6		100	0.130	**3405 08 7**
DIN 128 A M10 G	M10	10.5	18.1	3		100	0.210	**3405 10 9**
DIN 128 A M12 G	M12	12.5	21.1	3.5		100	0.320	**3405 12 5**

St Steel G Electrogalvanised /100 pc.

Lock washer according to DIN 128, shape A.

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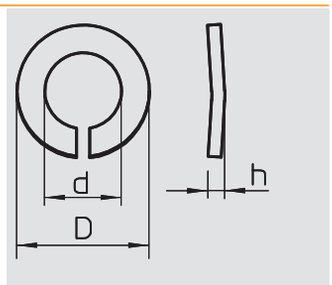
Lock washer V4A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
DIN 128 A M6 V4A	M6	6.3	11.8	2.1	100	0.070	**3405 06 2**
DIN 128 A M8 V4A	M8	8.3	14.8	2.6	100	0.130	**3405 08 9**
DIN 128 A M10V4A	M10	10.5	18.1	3	100	0.210	**3405 11 1**
DIN 128 A M12V4A	M12	12.5	21.1	3.5	100	0.320	**3405 12 7**

V4A Stainless steel, grade 316 Ti /100 pc.

Lock washer according to DIN 128, shape A.

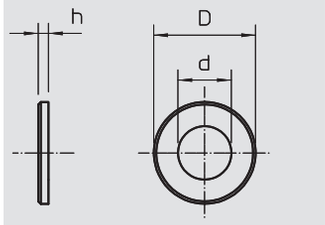


Washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M4 G	M4	4.3	9	0.8	10000	100	0.030	**3402 04 5**
966 M6 G	M6	6.4	12	1.6	12000	100	0.110	**3402 06 1**
966 M8 G	M8	8.4	16	1.6	5000	100	0.210	**3402 08 8**
966 M10 G	M10	10.5	20	2	3000	100	0.410	**3402 09 6**
966 M12 G	M12	13	24	2.5	2400	100	0.630	**3402 12 6**

St Steel G Electrogalvanised /100 pc.

Washer according to DIN 125, shape A, for universal use.



Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
967 M6 G	M6	6.5	28	2.5	1000	100	1.150	**3402 20 7**
967 M8 G	M8	8.5	28	2.5	1400	100	1.100	**3402 21 5**
967 M10 G	M10	11	28	2.5	1400	100	1.020	**3402 22 3**

St Steel G Electrogalvanised /100 pc.

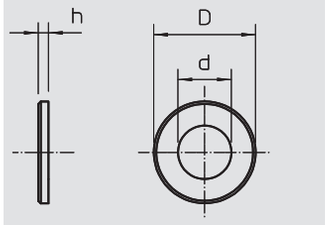
Washer of large outer diameter for universal use.

Washer V2A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 VA	M6	6.4	12	1.6	10000	100	0.110	**3402 30 4**
966 M8 VA	M8	8.4	16	1.6	5000	100	0.210	**3402 31 2**
966 M10 VA	M10	10.5	20	2	3000	100	0.410	**3402 32 0**
966 M12 VA	M12	13	24	2.5	2400	100	0.630	**3402 33 9**

V2A Stainless steel, grade 304 /100 pc.

Washer according to DIN 125, shape A, for universal use.

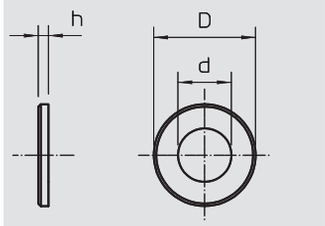


Washer V4A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Shipping box pcs	Pack. pcs	Weight kg/100 pcs.	Item No.
966 M6 V4A	M6	6.4	12	1.6	1000	100	0.110	**3402 30 6**
966 M8 V4A	M8	8.4	16	1.6	5000	100	0.210	**3402 31 4**
966 M10 V4A	M10	10.5	20	2	3000	100	0.410	**3402 32 2**
966 M12 V4A	M12	13	24	2.5	2400	100	0.630	**3402 34 5**

V4A Stainless steel, grade 316 Ti /100 pc.

Washer according to DIN 125, shape A, for universal use.

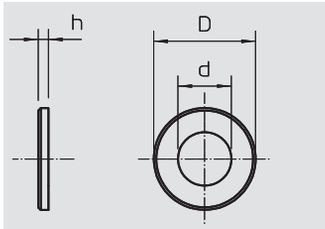


Large washer

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm	Pack. pcs	Weight kg/100 pcs.	Item No.
964 M4 G15 G	M4	4.3	15	1.2	100	0.160	**3403 02 5**
964 M5 G20 G	M5	5.3	20	1.2	100	0.270	**3403 04 1**
964 M6 G25 G	M6	6.4	25	1.2	100	0.420	**3403 08 4**
964 M6 G30 G	M6	6.4	30	1.3	100	0.680	**3403 09 2**
964 M6 G20 G	M6	6.4	20	1.5	100	0.260	**3403 07 6**
964 M8 G20 G	M8	8.4	20	1.5	100	0.240	**3403 12 2**
964 M8 G25 G	M8	8.4	25	1.2	100	0.370	**3403 13 0**
964 M10 G30 G	M10	10.5	30	1.5	100	0.590	**3403 16 5**

St Steel G Electrogalvanised /100 pc.

Washer of particularly large outer diameter.



Always indicate the item number when ordering.

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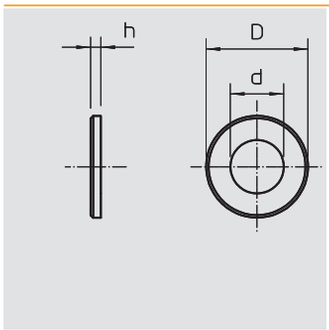
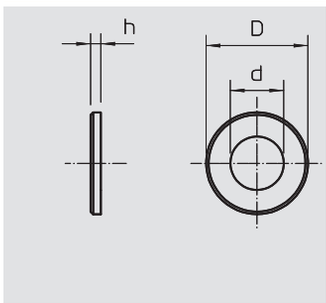


Large washer, V2A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm		Pack. pcs	Weight kg/100 pcs.	Item No.
964 M8 G20 V2A	M8	8.4	20	1.5		100	0.240	**3403 12 5**
964 M8 G25 V2A	M8	8.4	25	1.2		100	0.370	**3403 13 5**
964 M8 G40 V2A	M8	8.5	40	1.5		100	0.370	**3403 14 5**
964 M10 G30 V2A	M10	10.5	30	1.5		100	0.590	**3403 15 5**
964 M10 G40 V2A	M10	10.5	40	1.5		100	0.590	**3403 17 5**

V2A Stainless steel, grade 304 /100 pc.

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.



Large washer, V4A

Type	Thread	Dimension d mm	Dimension D mm	Dimension h mm		Pack. pcs	Weight kg/100 pcs.	Item No.
964 M8 G20 V4A	M8	8.4	20	1.5		100	0.240	**3403 12 7**
964 M8 G25 V4A	M8	8.4	25	1.2		100	0.370	**3403 13 7**
964 M10 G30 V4A	M10	10.5	30	1.5		100	0.590	**3403 16 3**
964 M10 G40 V4A	M10	10.5	40	1.5		100	0.590	**3403 17 7**

V4A Stainless steel, grade 316 Ti /100 pc.

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.

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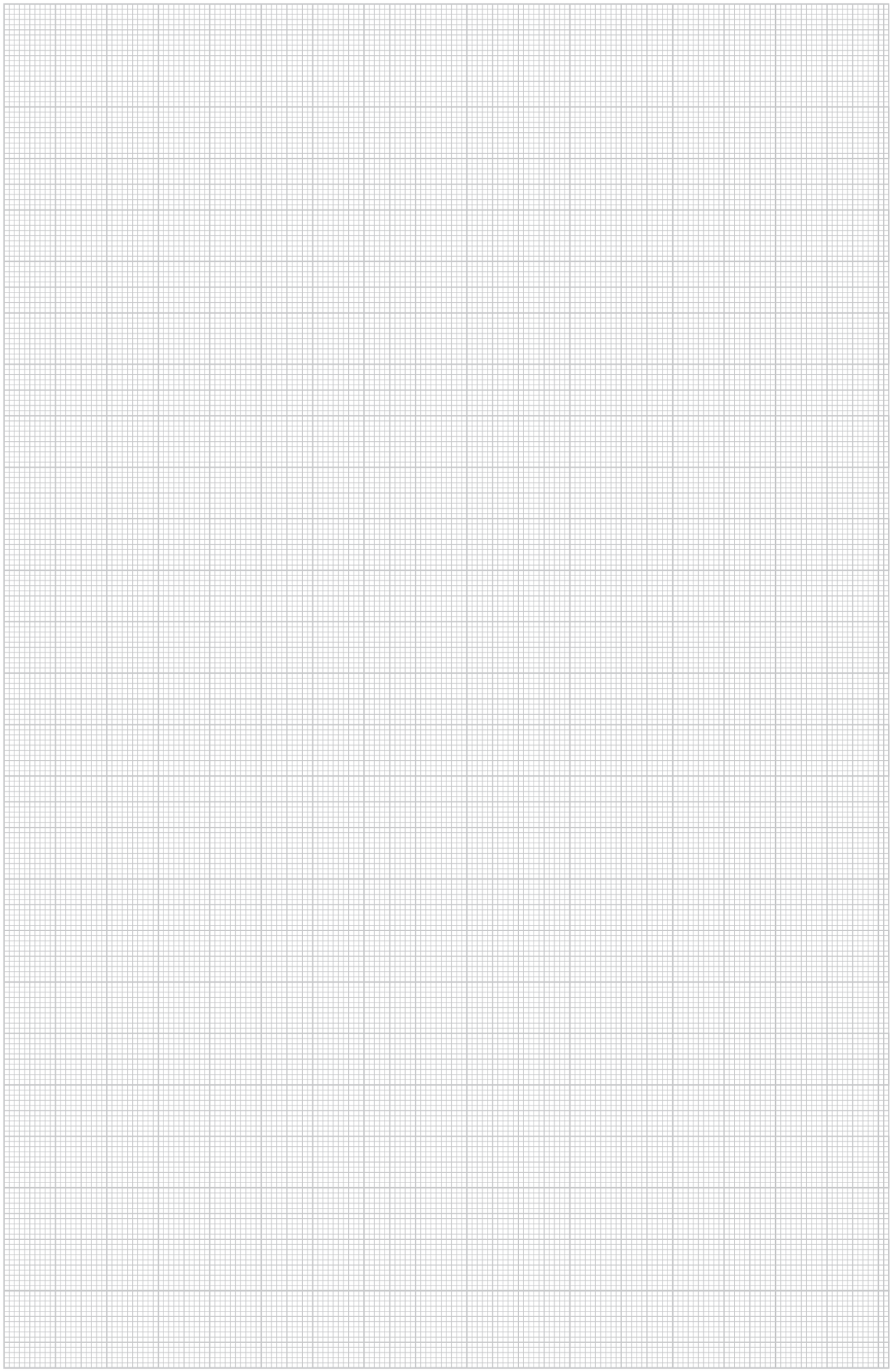

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Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

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		/100 pc.	
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500091	**1003 05 4**		300
500097	**1003 06 2**		300
500103	**1003 07 0**		300
500109	**1003 08 9**		300
500115	**1003 09 7**		300
500121	**1003 10 0**		300
500127	**1003 11 9**		300
500133	**1003 12 7**		300
500139	**1003 13 5**		300
500145	**1003 17 8**		300
500151	**1003 19 4**		300
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500163	**1003 21 6**		300
500169	**1003 23 2**		300
556689	**1003 25 9**		300
500175	**1003 28 3**		300
556695	**1003 32 1**		300
500181	**1003 35 6**		300
500187	**1003 37 2**		300
500193	**1003 40 2**		300
500205	**1003 46 1**		300
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500313	**1004 29 8**		304
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567297	**1121 24 3**	/pc.	358
590690	**1121 24 5**	/100 pc.	359
567255	**1121 27 8**	/pc.	358
590691	**1121 28 0**	/100 pc.	359
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590692	**1121 29 6**	/100 pc.	359
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590696	**1121 36 5**	/100 pc.	360
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505797	**1151 70 3**		349
505803	**1151 71 1**		349
505833	**1153 41 2**		373
505839	**1153 42 0**		373
505845	**1153 43 9**		373
590790	**1153 46 2**		373
590791	**1153 46 5**		373
590792	**1153 54 3**		373
505875	**1153 61 7**		373
505881	**1153 62 5**		373
505887	**1153 63 3**		373
505893	**1153 64 1**		373
590796	**1153 71 3**		373
590797	**1153 72 0**		373
590798	**1153 74 8**		373
590799	**1153 75 3**		373
548369	**1154 40 3**		373
590804	**1154 40 9**		374
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590808	**1154 50 7**		374
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506001	**1154 60 5**		373
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506013	**1154 62 1**		373
506019	**1154 64 8**		373
590820	**1154 70 1**		374
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506085	**1155 40 7**		396
506091	**1155 41 5**		396
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506109	**1155 45 8**		396

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Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

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506349	**1156 15 2**		401	506493	**1160 58 3**		397	507075	**1169 21 1**		408	507579	**1180 46 0**		411
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549879	**1158 10 4**		406	506643	**1161 88 1**		400	545127	**1174 51 7**		414	507759	**1183 25 7**		398
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Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

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Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

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552045	**2035 51 6**		227
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552063	**2035 52 2**		227
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517221	**2036 09 6**		226
517227	**2036 11 8**		226
517233	**2036 12 6**		227
517239	**2036 13 4**		226
517245	**2036 14 2**		227
517251	**2036 15 0**		227
517257	**2036 16 9**		226
517263	**2036 21 5**		226
517269	**2036 22 3**		227
517275	**2036 29 0**		226
517281	**2036 30 4**		227
517287	**2036 36 3**		226
517293	**2036 37 1**		227
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517599	**2039 10 9**		226
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517935	**2043 48 3**		233
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578186	**2046 58 8**		328
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578220	**2046 59 6**		329
578221	**2046 59 7**		329

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581097	**2086 14 1**		246
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502515	**2153 93 9**		334
553857	**2153 96 0**		334
553863	**2153 96 3**		334
553173	**2153 96 6**		334
553869	**2153 96 9**		334
		/pc.	
553875	**2153 97 1**		334
553881	**2153 97 3**		334
553887	**2153 97 5**		334
553893	**2153 97 7**		334
553899	**2153 98 0**		334
553905	**2153 98 2**		334
553911	**2153 98 4**		334
553917	**2153 98 6**		334
553923	**2153 99 2**		335
553929	**2153 99 4**		335
553959	**2153 99 6**		335
553965	**2153 99 8**		335
548289	**2154 50 1**		335
548301	**2154 52 8**		335
548307	**2154 53 6**		335
548313	**2154 54 4**		335
		/100 pc.	
520689	**2157 12 8**		279
520695	**2157 17 9**		279

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Always indicate the item number when ordering.

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		/100 pc.	
520701	**2157 24 1**		279
520707	**2157 34 9**		279
520713	**2158 12 4**		279
520719	**2158 17 5**		279
520725	**2158 24 8**		279
520731	**2158 34 5**		279
574299	**2197 80 4**		271
574293	**2197 81 2**		271
574263	**2197 85 5**		271
574257	**2197 86 3**		271
503661	**2204 00 0**		291
521067	**2204 01 0**		291
569325	**2204 54 1**		275
521091	**2204 80 0**		275
521097	**2204 81 9**		275
559749	**2204 85 1**		275
559755	**2204 87 8**		275
521109	**2204 90 8**		274
521115	**2204 91 6**		274
521121	**2204 92 4**		274
559767	**2204 97 5**		274
559773	**2204 98 3**		274
559779	**2204 99 1**		274
521127	**2205 01 7**		274
521133	**2205 03 3**		274
521139	**2205 04 1**		274
571002	**2205 05 2**		274
571003	**2205 05 3**		274
571004	**2205 05 4**		274
521145	**2205 09 2**		275
504497	**2205 09 7**		291
572695	**2205 39 8**		273
572696	**2205 40 0**		273
565163	**2205 40 4**		273
565165	**2205 41 2**		273
565166	**2205 41 6**		273
565171	**2205 42 3**		273
586395	**2207 02 8**		289
579879	**2207 03 6**		289
502249	**2207 06 0**		290
580939	**2207 08 0**		289
580940	**2207 08 8**		289
580944	**2207 11 2**		290
580945	**2207 13 2**		289
580946	**2207 14 0**		290
580947	**2207 16 4**		290
521301	**2213 11 7**		281
559977	**2214 87 3**		282
559983	**2214 88 1**		282
521313	**2215 04 7**		281
521319	**2215 07 1**		281
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521331	**2215 14 4**		281
521337	**2215 17 9**		281
521343	**2215 20 9**		281
521355	**2215 30 6**		282
521361	**2215 31 4**		282
521367	**2215 32 2**		282
521373	**2215 33 0**		282
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521385	**2215 35 7**		282
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521409	**2222 05 1**		280
521415	**2222 07 8**		280
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521427	**2222 09 4**		280
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521451	**2222 16 7**		280
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550983	**2222 87 6**		281
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521505	**2225 37 9**		283
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521517	**2225 41 7**		283
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521559	**2225 63 8**		283
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521577	**2225 71 9**		283
521583	**2225 72 7**		283
521589	**2225 80 8**		283
521595	**2225 81 6**		283
521607	**2225 90 5**		283
521613	**2225 91 3**		283
521625	**2226 01 4**		283
521631	**2226 02 2**		283
521643	**2226 10 3**		283
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521943	**2228 41 6**		282
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549645	**2228 42 2**		282
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521955	**2228 61 0**		282
521961	**2228 62 9**		282
549651	**2228 68 6**		282
582855	**2228 68 8**		282
521967	**2228 71 8**		282
521973	**2228 72 6**		282
521979	**2228 73 4**		282
560883	**2228 75 0**		282
521985	**2228 82 3**		282
521991	**2228 83 1**		282
521997	**2228 85 8**		282
522003	**2228 90 4**		282
533637	**2232 14 6**		283
533631	**2232 17 0**		283
533619	**2232 21 9**		283
533613	**2232 23 5**		283
533595	**2232 31 6**		283
522117	**2236 02 8**		316
522129	**2250 07 1**	/100 pc.	276
522135	**2250 13 6**		276
522141	**2250 20 9**		276
522147	**2250 24 1**		276
522153	**2250 30 6**		276
522159	**2250 43 8**		276
522165	**2251 25 6**		376
522207	**2254 01 8**		375
522213	**2254 02 6**		375
522219	**2254 03 4**		375
522279	**2255 01 4**		376
522285	**2255 02 2**		376
590559	**2255 40 5**		376
522297	**2259 07 9**		376
522309	**2259 14 1**		376
522321	**2259 23 0**		376
522327	**2259 28 1**		376
522429	**2305 15 1**		318
522435	**2305 23 2**		318
522441	**2307 61 8**		319
590185	**2307 62 2**		319
522447	**2307 63 4**		319
590186	**2307 63 8**		319
522591	**2327 10 4**		284
545499	**2330 05 9**		313
545505	**2330 07 5**		313
545511	**2330 09 1**		313
545541	**2330 22 9**		313
545547	**2330 24 5**		313
545559	**2330 29 6**		313
545565	**2330 32 6**		313
545571	**2330 34 2**		313
522699	**2332 02 7**		312
522705	**2332 05 1**		312
522711	**2332 09 4**		312
522717	**2332 10 8**		312
522723	**2332 17 5**		312
522729	**2332 18 3**		312
522735	**2332 21 3**		312
522741	**2332 33 7**		312
522747	**2332 36 1**		312
522753	**2332 38 8**		312
522759	**2332 50 7**		312
522765	**2332 55 8**		312
522771	**2332 57 4**		312
581985	**2332 62 0**		312
581991	**2332 65 5**		312
581997	**2332 66 3**		312
582003	**2332 69 8**		312
582009	**2332 70 1**		312
582015	**2332 72 8**		312
582021	**2332 75 2**		312
589686	**2332 76 0**		312
589687	**2332 76 4**		312
589688	**2332 76 8**		312
589689	**2332 77 2**		312
589690	**2332 77 6**		312
589691	**2332 78 0**		312
589692	**2332 78 4**		312
522801	**2340 03 8**		243
522807	**2341 01 8**	/pc.	316
522819	**2341 10 7**		316
582819	**2347 22 9**	/100 pc.	424
582825	**2347 26 1**		424
544809	**2347 40 7**		424
562565	**2347 52 3**		423
522873	**2347 53 9**		423
508496	**2347 54 7**		423
508499	**2347 55 5**		423
562566	**2347 57 0**		423
522885	**2349 04 3**		423
522891	**2349 05 1**	/100 pc.	423
522897	**2349 07 8**		423
522903	**2349 08 6**		423
522915	**2349 10 8**		423
522921	**2349 12 4**		423
587445	**2350 80 7**		423
522945	**2351 02 1**		423
566919	**2351 05 6**		275
522951	**2351 06 4**		275
522957	**2351 09 9**		423
522963	**2351 21 8**		423
524235	**2351 41 2**		272
570897	**2351 60 9**		272
593193	**2351 65 0**		272
523011	**2357 05 4**	/100 m	299
557776	**2363 01 0**	/pc.	188
568635	**2363 01 5**	/VPE	188
568777	**2363 01 9**	/pc.	188
586497	**3010 10 4**		221
503391	**3010 20 1**		221
503403	**3010 23 6**		221
503409	**3010 24 4**		221
503415	**3010 25 2**		221
503421	**3010 26 0**		221
503427	**3010 27 5**		221
524169	**3031 01 2**		422
585141	**3031 50 0**		422
524577	**3100 15 4**	/100 pc.	422
524583	**3100 18 9**		422
524589	**3100 25 1**		422
524595	**3100 30 8**		422
524601	**3100 40 5**		422
524607	**3100 55 3**		422
585105	**3105 01 6**		422
585111	**3105 02 4**		422
585117	**3105 03 2**		422
524775	**3116 15 8**		422
524817	**3117 15 4**		422
524823	**3117 18 9**		422
525027	**3131 06 8**		428
525033	**3131 08 4**		428
525039	**3133 02 8**		428
525045	**3133 03 6**		428
525057	**3133 23 0**		428
525321	**3141 04 7**		428
525333	**3141 12 8**		428
511998	**3141 13 6**		428
537467	**3141 13 8**		428
512358	**3141 14 0**		428
512364	**3141 14 4**		428
525339	**3141 20 9**		428
589515	**3141 23 3**		428
525345	**3141 30 6**		428
502345	**3141 31 0**		428
502357	**3141 31 2**		428
559443	**3141 31 4**		428
594037	**3156 01 6**		434
594038	**3156 01 8**		434
594039	**3156 01 9**		434
594040	**3156 02 0**		434
594041	**3156 02 1**		434
594042	**3156 02 2**		434
594043	**3156 02 4**		434
594044	**3156 02 5**		434
594048	**3156 02 6**		434
594049	**3156 02 7**		434

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		/100 pc.	
594050	**3156 02 8**		434
589199	**3156 02 9**		385
594054	**3156 03 1**		385
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594056	**3156 03 3**		385
594060	**3156 03 4**		385
594061	**3156 03 5**		385
594062	**3156 03 6**		385
594066	**3156 03 7**		385
584949	**3156 04 0**		385
584951	**3156 04 2**		385
584958	**3156 04 4**		385
584964	**3156 12 0**		435
584971	**3156 12 2**		386
584972	**3156 12 6**		386
525543	**3156 14 1**		434
525549	**3156 20 6**		434
525555	**3156 25 7**		434
525561	**3156 30 3**		434
525567	**3156 35 4**		434
525573	**3156 40 0**		434
525621	**3158 20 9**		434
525627	**3158 24 1**		434
525633	**3158 30 6**		434
525645	**3158 40 3**		434
525651	**3158 50 0**		434
525681	**3160 20 3**		385
525693	**3160 30 0**		385
525705	**3160 40 8**		385
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525717	**3160 60 2**		385
525759	**3162 30 3**		385
525771	**3162 40 0**		385
525777	**3162 50 8**		385
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584953	**3175 62 0**		385
584954	**3175 62 5**		385
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527019	**3188 05 1**		433
527025	**3188 07 8**		433
586677	**3188 09 4**		433
586683	**3188 14 0**		433
586689	**3188 15 9**		433
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527049	**3188 28 0**		433
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527055	**3188 36 1**		433
527061	**3188 38 8**		433
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527217	**3192 16 4**		432
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527271	**3192 33 4**		432
527277	**3192 34 2**		432
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527295	**3192 37 7**		432
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556155	**3198 22 9**		433
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579123	**3198 26 2**		433
579129	**3198 26 4**		433
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529347	**3360 60 1**		420
529365	**3361 12 8**		420
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529419	**3361 60 8**		420
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529443	**3366 16 2**		421
529449	**3366 18 9**		421
529455	**3366 23 5**		421
529461	**3366 30 8**		421
529473	**3366 40 5**		421
529479	**3366 50 2**		421
529485	**3366 59 6**		421
529491	**3367 12 6**		421
529503	**3367 16 9**		421
529509	**3367 18 5**		421
529515	**3367 23 1**		421
529521	**3367 30 4**		421
529533	**3367 40 1**		421
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554577	**3369 00 5**		420
554589	**3369 02 1**		420
529767	**3397 06 8**		435
529773	**3397 08 4**		435
529779	**3397 10 6**		386
529785	**3397 11 4**		386
589481	**3397 14 5**		386
529797	**3400 04 2**		434
529803	**3400 05 0**		434
529809	**3400 06 9**		349
529815	**3400 08 5**		349
529821	**3400 10 7**		349
529827	**3400 12 3**		386
590929	**3400 17 3**		435
590930	**3400 17 5**		435
561807	**3400 17 7**		386
529989	**3402 04 5**		436
530001	**3402 06 1**		349
530007	**3402 08 8**		349
530013	**3402 09 6**		349
530019	**3402 12 6**		387
530031	**3402 20 7**		349
530037	**3402 21 5**		349
530043	**3402 22 3**		349
530049	**3402 30 4**		436
590941	**3402 30 6**		436
530055	**3402 31 2**		436
590947	**3402 31 4**		436
530061	**3402 32 0**		387
561808	**3402 32 2**		387
530067	**3402 33 9**		387
589478	**3402 34 5**		387
586791	**3403 02 5**		436
586797	**3403 04 1**		436
586803	**3403 07 6**		436
586809	**3403 08 4**		436
586815	**3403 09 2**		436
586821	**3403 12 2**		387
594434	**3403 12 5**		387
594440	**3403 12 7**		388
586827	**3403 13 0**		387
594438	**3403 13 5**		387
594444	**3403 13 7**		388
594625	**3403 14 5**		387
594439	**3403 15 5**		387
594445	**3403 16 3**		388
586833	**3403 16 5**		387
594629	**3403 17 5**		387
594630	**3403 17 7**		388
530157	**3404 05 6**		435
530163	**3404 06 4**		435
530169	**3404 08 0**		435
530175	**3404 10 2**		386
530181	**3404 12 9**		386
591328	**3404 37 3**		435
590959	**3404 37 8**		435
561809	**3404 38 2**		386
590963	**3404 38 6**		386
530229	**3405 06 0**		435
590965	**3405 06 2**		436
530235	**3405 08 7**		435
590971	**3405 08 9**		436
530241	**3405 10 9**		386
590975	**3405 11 1**		387
530247	**3405 12 5**		386
590977	**3405 12 7**		387
530355	**3415 03 1**		428
530361	**3415 06 6**		428
530367	**3415 08 2**		428
530373	**3415 10 4**		428
530379	**3415 12 0**		428
530385	**3415 14 7**		428
530391	**3415 16 3**		428
530433	**3450 05 8**		429
530439	**3450 06 6**		429
530445	**3450 07 4**		429
530451	**3450 08 2**		429
530457	**3450 09 0**		429
530463	**3450 10 4**		429
530469	**3450 12 0**		429
551331	**3453 82 0**		429
530595	**3460 06 1**		430
530607	**3460 16 9**		429
530619	**3460 76 2**		430

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		/100 pc.	
530625	**3460 78 9**		430
530649	**3462 06 4**		430
530655	**3462 08 0**		430
530697	**3462 86 2**		430
530703	**3462 88 9**		430
530715	**3463 06 0**		431
530721	**3463 56 7**		430
530727	**3463 58 3**		430
530733	**3464 06 7**		431
530739	**3464 08 3**		431
530925	**3470 14 8**		429
530931	**3470 21 0**		429
530937	**3470 23 7**		429
530955	**3472 08 6**		430
544293	**3481 61 1**		425
543285	**3481 66 2**		425
543297	**3481 77 8**		425
531063	**3482 01 4**		425
531069	**3482 03 0**		425
531075	**3482 05 7**		425
531081	**3482 07 3**		425
531087	**3482 10 3**		425
531093	**3482 13 8**		425
531099	**3482 15 4**		425
523947	**3482 70 7**		426
523935	**3482 75 8**		426
523929	**3482 76 6**		426
531117	**3483 06 1**		424
531123	**3483 08 8**		424
531129	**3483 09 6**		424
541819	**3483 21 4**		424
541820	**3483 23 9**		424
568341	**3484 60 2**		424
568335	**3484 62 9**		424
545403	**3492 03 6**		426
545409	**3492 06 0**		426
545415	**3492 09 5**		426
		/pc.	
545439	**3492 33 8**		426
545445	**3492 36 2**		426
545451	**3492 39 7**		426
545421	**3492 62 1**		426
545427	**3492 66 4**		426
545433	**3492 69 9**		426
		/100 pc.	
596392	**3498 10 7**		427
596398	**3498 12 3**		427
596404	**3498 15 8**		427
596410	**3498 20 4**		427
596416	**3498 26 3**		427
546189	**3498 42 5**		427
588843	**3498 50 6**		426
588849	**3498 54 9**		426
588855	**3498 58 1**		426
588861	**3498 65 4**		426
548913	**3498 74 3**		426
541353	**5300 03 7**		317
541359	**5300 05 3**		317
541365	**5300 06 1**		317
541371	**5300 08 8**		317
590117	**5300 12 0**		317
590118	**5300 12 4**		317
590119	**5300 12 7**		317
590120	**5300 13 2**		317
541389	**5301 00 9**		317
541395	**5301 03 3**		317
541401	**5301 04 1**		317
541407	**5301 06 8**		317
541419	**5301 08 4**		317
541431	**5301 10 6**		317
590102	**5301 17 0**		318
590106	**5301 17 2**		318
590107	**5301 17 4**		318
590108	**5301 17 6**		318
590109	**5301 18 0**		318
590110	**5301 18 4**		318
541455	**5302 02 1**		319
541461	**5302 05 6**		319
541467	**5302 06 4**		319
541473	**5302 08 0**		319
541479	**5302 10 2**		319
590132	**5302 17 0**		319
590135	**5302 17 4**		319
590136	**5302 17 8**		319
590137	**5302 18 2**		319
590138	**5302 18 8**		319
		/100 m	
590065	**5303 17 9**		317
590066	**5303 18 2**		317
590069	**5303 18 5**		317
590070	**5303 18 8**		317
590071	**5303 19 1**		317
590072	**5303 19 4**		317
590076	**5303 19 7**		317
546427	**5303 20 2**		317
541497	**5303 20 6**		317
541503	**5303 21 4**		317
541509	**5303 22 2**		317
541515	**5303 23 0**		317
541527	**5303 25 7**		317
541533	**5303 26 5**		317
		/100 pc.	
541713	**5305 01 2**		319
590178	**5305 01 6**		320
542259	**5327 07 5**		345
542265	**5327 08 3**		345
542271	**5327 10 5**		345
542277	**5327 12 1**		345
		/pc.	
693325	**6006 48 6**		169
600601	**6007 24 4**		358
600607	**6007 25 2**		358
600613	**6007 26 0**		358
600619	**6007 27 9**		358
600625	**6007 28 7**		358
600631	**6007 29 5**		358
600637	**6007 30 9**		358
600643	**6007 31 7**		358
		/pair	
543947	**6007 49 8**		360
602713	**6024 00 9**		197
602743	**6024 10 6**		197
540607	**6119 94 0**		198
540608	**6119 94 1**		198
540611	**6119 94 3**		198
540626	**6119 94 5**		198
540629	**6119 94 6**		198
540630	**6119 94 7**		198
540631	**6119 95 0**		201
540632	**6119 95 1**		201
540633	**6119 95 2**		201
619171	**6349 40 4**		359
619177	**6349 41 2**		359
619183	**6349 43 9**		359
619189	**6349 44 7**		359
619195	**6349 46 3**		359
619231	**6350 05 4**		348
619237	**6350 10 0**		348
619249	**6350 15 1**		348
		/m	
619255	**6350 20 8**		348
619429	**6354 10 6**		374
619435	**6354 11 4**		374
619441	**6354 12 2**		374
		/pair	
619447	**6355 02 1**		374
619453	**6355 04 8**		374
619459	**6355 05 6**		374
619465	**6355 06 4**		374
619471	**6355 07 2**		374
619477	**6355 21 8**		374
619483	**6355 22 6**		374
619489	**6355 23 4**		374
619495	**6355 24 2**		374
619501	**6355 25 0**		374
611449	**6355 80 0**		374
611461	**6355 80 4**		375
657907	**6355 80 8**		374
657925	**6355 81 2**		375
		/100 pc.	
620221	**6410 08 1**		429
620227	**6410 10 3**		429
620233	**6410 11 1**		429
604356	**6410 15 4**		429
604368	**6410 16 2**		429
		/100 m	
620935	**6490 01 8**		313
620941	**6490 03 4**		313
620947	**6490 05 0**		313
		/100 pc.	
620953	**6490 10 7**		314
620959	**6490 12 3**		314
620965	**6490 15 8**		314
620971	**6490 17 4**		314
620977	**6490 90 5**		314
620983	**6490 96 4**		314
		/pc.	
620989	**6498 01 9**		314
620995	**6498 02 7**		314
614683	**7084 76 5**		168
614689	**7084 77 3**		169
516330	**7085 11 1**		168
593014	**7205 51 0**		181
593015	**7205 52 0**		181
593016	**7205 52 4**		181
593017	**7205 52 8**		181
		/100 pc.	
587529	**7205 59 4**		182
587530	**7205 59 7**		182
581082	**7205 60 0**		182
581083	**7205 60 3**		182
587531	**7205 64 4**		182
587532	**7205 64 7**		182
581084	**7205 65 0**		182
581088	**7205 65 3**		182

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Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
10 6FL M40 10 31	M40 8,5-10,5 / PE	5516491	2013 03 0		230
60 N 12x16 BL	Blue 200 / PA	5183310	2054 08 6		204
60 N 7x16 BL	Blue 100 / PA	5183198	2054 00 0		204
60 S 12x16 GBGN	Yellow green 200 / PA	5183372	2054 09 4		204
60 S 7x16 GBGN	Yellow green 100 / PA	5183259	2054 01 9		204
61 1/1 25 GR	Grey 2000 / PA	5849346	2054 75 0		208
61 2/1 25 WS	White 2000 / PA	5849353	2054 75 5		208
61 325 LGR	Light grey 2000 / PA	5879916	2054 48 5		208
61 525 LGR	Light grey 2000 / PA	5825319	2054 50 7		208
61 825 LGR	Light grey 1000 / PA	5477976	2054 52 3		208
70 S	(sorted) 180 / PA	5183853	2055 20 1		204
70 VDE	(sorted) 400 / PA	5183433	2055 02 3		204
71	Black 120 / PP	5183914	2055 50 3		204
72 CE SW	Black 500 / PP	5879251	2056 08 9		205
72 CE WS	White 500 / PP	5702610	2056 07 0		205
72 VDE	Transparent 500 / PA	5432258	2055 92 9		205
74 CE SW	Black 200 / PP	5879312	2056 23 2		206
74 CE WS	White 200 / PP	5702559	2056 22 4		206
74 D	Transparent 200 / PA	5184393	2056 17 8		205
74 VDE	Transparent 200 / PA	5184331	2056 14 3		205
76 CE SW	Black 100 / PP	5879374	2056 38 0		206
76 CE WS	White 100 / PP	5702498	2056 37 2		206
78 CE SW	Black 100 / PP	5879435	2056 56 9		206
78 CE WS	White 100 / PP	5702436	2056 55 0		206
79 CE SW	Black 50 / PP	5879558	2056 58 5		206
79 CE WS	White 50 / PP	5879497	2056 57 7		206
80 CE SW	Black 50 / PP	5300106	2056 59 3		207
80 CE WS	White 50 / PP	5300069	2056 59 0		207
90 M12 GE	M12 x 1,5 Light grey / PE	5481454	2032 37 8		239
90 M12 OF	M12 x 1,5 Light grey / PE	5477556	2032 00 7		239
90 M16 GE	M16 x 1,5 Light grey / PE	5481515	2032 38 0		239
90 M16 OF	M16 x 1,5 Light grey / PE	5477617	2032 01 1		239
90 M20 GE	M20 x 1,5 Light grey / PE	5481577	2032 38 2		239
90 M20 OF	M20 x 1,5 Light grey / PE	5477730	2032 01 5		239
90 M25 GE	M25 x 1,5 Light grey / PE	5481638	2032 38 4		239
90 M25 OF	M25 x 1,5 Light grey / PE	5477792	2032 01 9		239
90 M32 GE	M32 x 1,5 Light grey / PE	5481690	2032 38 6		239
90 M32 OF	M32 x 1,5 Light grey / PE	5477853	2032 02 3		239
90 M40 GE	M40 x 1,5 Light grey / PE	5481812	2032 38 8		239
90 M40 OF	M40 x 1,5 Light grey / PE	5477914	2032 03 1		239
90 PG 9 DSMB	Pg 9 Light grey / PE	5169819	2032 50 3		240
90 PG 9 OF	Pg 9 Light grey / PE	5168973	2032 09 0		240
90 PG11 DSMB	Pg 11 Light grey / PE	5169871	2032 51 1		240
90 PG11 OF	Pg 11 Light grey / PE	5169031	2032 11 2		240
90 PG13.5 DSMB	Pg 13,5 Light grey / PE	5169932	2032 53 8		240
90 PG13.5 OF	Pg 13,5 Light grey / PE	5169093	2032 13 9		240
90 PG16 DSMB	Pg 16 Light grey / PE	5169994	2032 54 6		240
90 PG16 OF	Pg 16 Light grey / PE	5169154	2032 16 3		240
90 PG21 DSMB	Pg 21 Light grey / PE	5170051	2032 55 4		240
90 PG21 OF	Pg 21 Light grey / PE	5169215	2032 20 1		240
90 PG29 DSMB	Pg 29 Light grey / PE	5170112	2032 56 2		240
106 B M16 PS	M16 x 1,5 Light grey / PS	5520276	2035 51 0		227
106 B M20 PS	M20 x 1,5 Light grey / PS	5520337	2035 51 2		227
106 B M25 PS	M25 x 1,5 Light grey / PS	5520399	2035 51 4		227
106 B M32 PS	M32 x 1,5 Light grey / PS	5520450	2035 51 6		227
106 B M40 PS	M40 x 1,5 Light grey / PS	5520511	2035 51 8		227
106 B M50 PS	M50 x 1,5 Light grey / PS	5520573	2035 52 0		227
106 B M63 PS	M63 x 1,5 Light grey / PS	5520634	2035 52 2		227
106 B PG11 PS	Pg 11 Light grey / PS	5172338	2036 12 6		227
106 B PG13.5 PS	Pg 13,5 Light grey / PS	5172451	2036 14 2		227
106 B PG16 PS	Pg 16 Light grey / PS	5172512	2036 15 0		227
106 B PG21 PS	Pg 21 Light grey / PS	5172697	2036 22 3		227
106 B PG29 PS	Pg 29 Light grey / PS	5172819	2036 30 4		227
106 B PG36 PS	Pg 36 Light grey / PS	5172932	2036 37 1		227
106 B PG42 PS	Pg 42 Light grey / PS	5173052	2036 43 6		227
106 B PG9 PS	Pg 9 Light grey / PS	5172154	2036 08 8		227
106 FL 16 8 19	Pg 16 6-8 / PE	5156734	2012 75 8		231
106 FL 21 10 29	Pg 21 8-10 / PE	5157090	2012 83 9		231
106 FL 21 10 31	Pg 21 8,5-10,5 / PE	5157335	2012 87 1		231
106 FL 21 12 35	Pg 21 9-12 / PE	5157151	2012 84 7		231
106 FL 21 14 40	Pg 21 11-14 / PE	5157458	2012 92 8		231
106 FL 21 6 30	Pg 21 4-6 / PE	5157212	2012 85 5		231
106 FL 21 8 33	Pg 21 6-8 / PE	5156918	2012 78 2		231
106 FL 21 9 22	Pg 21 7-9 / PE	5157038	2012 82 0		231
106 FL 21 9 39	Pg 21 7-9 / PE	5156970	2012 80 4		231
106 FL 29 14 40	Pg 29 11-14 / PE	5156857	2012 77 4		231
106 FL M20 8 19	M20 6-8 / PE	5515173	2013 00 2		230
106 FL M25 10 29	M25 8-10 / PE	5515470	2013 01 0		230
106 FL M25 10 31	M25 8,5-10,5 / PE	5515531	2013 01 1		230
106 FL M25 12 35	M25 9-12 / PE	5515593	2013 01 2		230
106 FL M25 14 40	M25 11-14 / PE	5515654	2013 01 3		230
106 FL M25 6 30	M25 4-6 / PE	5515234	2013 00 6		230
106 FL M25 8 33	M25 6-8 / PE	5515296	2013 00 7		230
106 FL M25 9 22	M25 7-9 / PE	5515357	2013 00 8		230
106 FL M25 9 39	M25 7-9 / PE	5515418	2013 00 9		230
106 FL M32 10 29	M32 8-10 / PE	5515951	2013 01 9		230
106 FL M32 10 31	M32 8,5-10,5 / PE	5516019	2013 02 0		230
106 FL M32 12 35	M32 9-12 / PE	5516071	2013 02 1		230
106 FL M32 14 40	M32 11-14 / PE	5516132	2013 02 2		230
106 FL M32 6 30	M32 4-6 / PE	5515715	2013 01 5		230
106 FL M32 8 33	M32 6-8 / PE	5515777	2013 01 6		230
106 FL M32 9 22	M32 7-9 / PE	5515838	2013 01 7		230
106 FL M32 9 39	M32 7-9 / PE	5515890	2013 01 8		230
106 FL M40 10 29	M40 8-10 / PE	5516439	2013 02 9		230
106 FL M40 12 35	M40 9-12 / PE	5516552	2013 03 1		230
106 FL M40 14 40	M40 11-14 / PE	5516613	2013 03 2		230
106 FL M40 6 30	M40 4-6 / PE	5516194	2013 02 5		230
106 FL M40 8 33	M40 6-8 / PE	5516255	2013 02 6		230
106 FL M40 9 22	M40 7-9 / PE	5516316	2013 02 7		230
106 FL M40 9 39	M40 7-9 / PE	5516378	2013 02 8		230
106 K M20 PS	M20x1,5 Light grey / PS	5469636	2038 07 2		225
106 K PG16 PS	Pg 16 Light grey / PS	5175216	2038 04 8		226
106 L PG11 PS	Pg 11 Light grey / PS	5175810	2039 04 4		226
106 L PG13.5 PS	Pg 13,5 Light grey / PS	5175872	2039 06 0		226
106 L PG16 PS	Pg 16 Light grey / PS	5175933	2039 08 7		226
106 L PG21 PS	Pg 21 Light grey / PS	5175995	2039 10 9		226
106 L PG9 PS	Pg 9 Light grey / PS	5175759	2039 02 8		226
106 M 12 PA	M12 x 1,5 Light grey / PA	5468134	2035 41 3		224
106 M 16 PA	M16 x 1,5 Light grey / PA	5468370	2035 42 1		224
106 M 20 PA	M20 x 1,5 Light grey / PA	5468431	2035 44 8		224
106 M 20 PS	M20 x 1,5 Light grey / PS	5465256	2035 33 2		225
106 M 25 PA	M25 x 1,5 Light grey / PA	5468493	2035 45 6		224
106 M 25 PS	M25 x 1,5 Light grey / PS	5465317	2035 34 0		225
106 M 32 PA	M32 x 1,5 Light grey / PA	5468554	2035 46 4		224
106 M 32 PS	M32 x 1,5 Light grey / PS	5467410	2035 35 9		225
106 M 40 PA	M40 x 1,5 Light grey / PA	5468615	2035 47 2		224
106 M 40 PS	M40 x 1,5 Light grey / PS	5467472	2035 36 7		225
106 M 50 PA	M50 x 1,5 Light grey / PA	5468677	2035 48 0		224
106 M 50 PS	M50 x 1,5 Light grey / PS	5467953	2035 37 5		225
106 M 63 PA	M63 x 1,5 Light grey / PA	5468738	2035 49 9		224
106 M 63 PS	M63 x 1,5 Light grey / PS	5468011	2035 38 3		225
106 M12 PS	M12 x 1,5 Light grey / PS	5464952	2035 31 6		225
106 M16 PS	M16 x 1,5 Light grey / PS	5465072	2035 32 4		225
106 PG11	Pg 11 Light grey / PS	5172277	2036 11 8		226
106 PG13.5	Pg 13,5 Light grey / PS	5172390	2036 13 4		226
106 PG16	Pg 16 Light grey / PS	5172574	2036 16 9		226
106 PG21	Pg 21 Light grey / PS	5172635	2036 21 5		226
106 PG29	Pg 29 Light grey / PS	5172758	2036 29 0		226
106 PG36	Pg 36 Light grey / PS	5172871	2036 36 3		226
106 PG42	Pg 42 Light grey / PS	5172994	2036 42 8		226
106 PG48	Pg 48 Light grey / PS	5173113	2036 48 7		226
106 PG7	Pg 7 Light grey / PS	5172093	2036 06 1		226
106 PG9	Pg 9 Light grey / PS	5172215	2036 09 6		226
106 R PG13-11 PS	Pg 13,5 Light grey / PS	5176954	2040 06 9		228
106 R PG13-9 PS	Pg 13,5 Light grey / PS	5176893	2040 04 2		228
106 R PG16-13 PS	Pg 16 Light grey / PS	5177074	2040 10 7		228
106 VDE PG11 PA	Pg 11 Light grey / PA	5173359	2036 53 3		224
106 VDE PG13 PA	Pg 13,5 Light grey / PA	5173410	2036 57 6		224
106 VDE PG16 PA	Pg 16 Light grey / PA	5173472	2036 59 2		224
106 VDE PG21 PA	Pg 21 Light grey / PA	5173533	2036 61 4		224
106 VDE PG29 PA	Pg 29 Light grey / PA	5173595	2036 63 0		224
106 VDE PG36 PA	Pg 36 Light grey / PA	5173656	2036 65 7		224
106 VDE PG9 PA	Pg 9 Light grey / PA	5173298	2036 51 7		224
106 Z PG11 PC	Pg 11 Light grey / PC	5162070	2023 51 2		229
106 Z PG13.5 PC	Pg 13,5 Light grey / PC	5162131	2023 52 0		229
106 Z PG16 PC	Pg 16 Light grey / PC	5162193	2023 53 9		229
106 Z PG21 PC	Pg 21 Light grey / PC	5162254	2023 54 7		229

Always indicate the item number when ordering.

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price /100 pc.	Page
106 Z PG9 PC	Pg 9 Light grey/ PC	5162018	2023 50 4		229
106 ZB PG11 PC	Pg 11 Light grey/ PC	5162438	2023 71 7		229
106 ZB PG16 PC	Pg 16 Light grey/ PC	5162551	2023 73 3		229
106 ZB PG21 PC	Pg 21 Light grey/ PC	5162612	2023 74 1		229
106 ZB PG29 PC	Pg 29 Light grey/ PC	5162674	2023 76 8		229
106 ZB PG9 PC	Pg 9 Light grey/ PC	5162377	2023 70 9		229
106ZB PG13.5 PC	Pg 13,5 Light grey/ PC	5162490	2023 72 5		229
107 ADA M12-PG9	M12 PG9/ PA	5371946	2031 45 6		238
107 ADA M16-PG9	M16 PG9/ PA	5371977	2031 45 7		238
107 ADA M20-PG11	M20 PG11/ PA	5371984	2031 45 8		238
107 ADA M20-PG13	M20 PG13,5/ PA	5371991	2031 45 9		238
107 ADA M25-PG16	M25 PG16/ PA	5372004	2031 46 0		238
107 ADA M32-PG29	M32 PG29/ PA	5372011	2031 46 1		238
107 ADA M40-PG29	M40 PG29/ PA	5372028	2031 46 2		238
107 ADA M50-PG36	M50 PG36/ PA	5372035	2031 46 3		238
107 ADA PG11-M16	PG11 M16/ PA	5372066	2031 46 7		238
107 ADA PG13-M20	PG13,5 M20/ PA	5372073	2031 46 8		238
107 ADA PG16-M20	PG16 M20/ PA	5372080	2031 46 9		238
107 ADA PG21-M25	PG21 M25/ PA	5372097	2031 47 0		238
107 ADA PG29-M32	PG29 M32/ PA	5372103	2031 47 1		238
107 ADA PG7-M12	PG7 M12/ PA	5372042	2031 46 5		238
107 ADA PG9-M12	PG9 M12/ PA	5372059	2031 46 6		238
107 B PG11	Pg 11/ NBR-SBR	5167112	2029 11 1		241
107 B PG11	Pg 11/ NBR-SBR	5167112	2029 11 1		262
107 B PG13.5	Pg 13,5 M20/ NBR-SBR	5167174	2029 13 8		241
107 B PG13.5	Pg 13,5 M20/ NBR-SBR	5167174	2029 13 8		262
107 B PG16	Pg 16 M25/ NBR-SBR	5167235	2029 16 2		241
107 B PG16	Pg 16 M25/ NBR-SBR	5167235	2029 16 2		262
107 B PG21	Pg 21/ NBR-SBR	5167297	2029 21 9		241
107 B PG21	Pg 21/ NBR-SBR	5167297	2029 21 9		262
107 B PG29	Pg 29 M32/ NBR-SBR	5167358	2029 29 4		241
107 B PG29	Pg 29 M32/ NBR-SBR	5167358	2029 29 4		262
107 B PG36	Pg 36 M40/ NBR-SBR	5167419	2029 36 7		241
107 B PG36	Pg 36 M40/ NBR-SBR	5167419	2029 36 7		262
107 B PG42	Pg 42 M50/ NBR-SBR	5167471	2029 42 1		241
107 B PG42	Pg 42 M50/ NBR-SBR	5167471	2029 42 1		262
107 B PG48	Pg 48 M63/ NBR-SBR	5167532	2029 48 0		241
107 B PG48	Pg 48 M63/ NBR-SBR	5167532	2029 48 0		262
107 B PG9	Pg 9 M16/ NBR-SBR	5167051	2029 10 3		241
107 B PG9	Pg 9 M16/ NBR-SBR	5167051	2029 10 3		262
107 C V 16 2x6	Pg 16 6/ NBR-SBR	5824718	2029 63 4		222
107 C V 16 3x5	Pg 16 5/ NBR-SBR	5824657	2029 62 6		222
107 C V 16 3x6	Pg 16 6,5/ NBR-SBR	5824770	2029 64 2		222
107 C V 16 5x4	Pg 16 4/ NBR-SBR	5824596	2029 61 8		222
107 C V 21 2x8	Pg 21 8/ NBR-SBR	5824893	2029 66 9		222
107 C V 21 3x7	Pg 21 7/ NBR-SBR	5824831	2029 65 0		222
107 C VM 20 2x4	M20 4/ NBR-SBR	5035831	2029 67 2		222
107 C VM 20 2x6	M20 6/ NBR-SBR	5035954	2029 67 7		222
107 C VM 20 4x5	M20 5/ NBR-SBR	5035893	2029 67 5		222
107 C VM 25 2x6	M25 6/ NBR-SBR	5036135	2029 68 5		222
107 C VM 25 2x8	M25 8/ NBR-SBR	5036258	2029 69 0		222
107 C VM 25 3x6	M25 6/ NBR-SBR	5036074	2029 68 2		222
107 C VM 25 3x7	M25 7/ NBR-SBR	5036197	2029 68 8		222
107 C VM 25 5x4	M25 4/ NBR-SBR	5036012	2029 67 9		222
107 C VM 32 2x8	M32 8/ NBR-SBR	5036319	2029 69 3		222
107 C VM 32 4x8	M32 8/ NBR-SBR	5036371	2029 69 6		222
107 D PG11 GTP	Pg 11 16,5/ St / GTP	5164890	2027 11 9		262
107 D PG13.5 GTP	Pg 13,5 18,5/ St / GTP	5164951	2027 13 5		262
107 D PG16 GTP	Pg 16 20,5/ St / GTP	5165019	2027 15 1		262
107 D PG21 GTP	Pg 21 26/ St / GTP	5165071	2027 21 6		262
107 D PG29 GTP	Pg 29 35/ St / GTP	5165132	2027 29 1		262
107 D PG7 GTP	Pg 7 11/ St / GTP	5164777	2027 07 0		262
107 D PG9 GTP	Pg 9 13,5/ St / GTP	5164838	2027 09 7		262
107 E M 12-16 PA	M12 M16/ PA	5371878	2031 45 0		237
107 E M 16-20 PA	M16 M20/ PA	5371885	2031 45 1		237
107 E M 20-25 PA	M20 M25/ PA	5371915	2031 45 2		237
107 E M 25-32 PA	M25 M32/ PA	5371922	2031 45 3		237
107 E M 32-40 PA	M32 M40/ PA	5371939	2031 45 4		237
107 E PG11 PA	Pg 11 Light grey/ PA	5163695	2025 53 1		235
107 E PG11 PS	Pg 11 Light grey/ PS	5163091	2025 11 6		234
107 E PG13.5 PA	Pg 13,5 Light grey/ PA	5163756	2025 56 6		235
107 E PG13.5 PS	Pg 13,5 Light grey/ PS	5163152	2025 13 2		234
107 E PG16 PS	Pg 16 Light grey/ PS	5163213	2025 16 7		234
107 E PG21 PA	Pg 21 Light grey/ PA	5163879	2025 60 4		235
107 E PG21 PS	Pg 21 Light grey/ PS	5163275	2025 21 3		234
107 E PG29 PS	Pg 29 Light grey/ PS	5163336	2025 29 9		234
107 E PG36 PA	Pg 36 Light grey/ PA	5163992	2025 64 7		235
107 E PG36 PS	Pg 36 Light grey/ PS	5163398	2025 36 1		234
107 E PG42 PS	Pg 42 Light grey/ PS	5163459	2025 42 6		234
107 E PG48 PS	Pg 48 Light grey/ PS	5163510	2025 48 5		234
107 E PG7 PS	Pg 7 Light grey/ PS	5162971	2025 07 8		234
107 E PG9 PS	Pg 9 Light grey/ PS	5163039	2025 09 4		234
107 EP PG29-36PA	Pg 29 Pg 36/ PA	5825012	2030 98 5		238
107 EZ PG11-13PA	Pg 11 Pg 13,5/ PA	5433934	2030 93 4		238
107 EZ PG13-16PA	Pg 13,5 Pg 16/ PA	5433996	2030 95 0		238
107 EZ PG16-21PA	Pg 16 Pg 21/ PA	5434054	2030 97 7		238
107 EZ PG21-29PA	Pg 21 Pg 29/ PA	5434115	2030 99 3		238
107 EZ PG9-11 PA	Pg 9 Pg 11/ PA	5433873	2030 89 6		238
107 F M12 PE	M12 16,3/ PE	5374299	2030 00 4		241
107 F M12 PE	M12 16,3/ PE	5374299	2030 00 4		262
107 F M16 PE	M16 20,9/ PE	5374350	2030 00 8		241
107 F M16 PE	M16 20,9/ PE	5374350	2030 00 8		262
107 F M20 PE	M20 25,1/ PE	5375678	2030 01 2		241
107 F M20 PE	M20 25,1/ PE	5375678	2030 01 2		262
107 F M25 PE	M25 31,3/ PE	5375913	2030 01 6		241
107 F M25 PE	M25 31,3/ PE	5375913	2030 01 6		262
107 F M32 PE	M32 37,6/ PE	5376156	2030 02 0		241
107 F M32 PE	M32 37,6/ PE	5376156	2030 02 0		262
107 F M40 PE	M40 49,1/ PE	5376514	2030 02 4		241
107 F M40 PE	M40 49,1/ PE	5376514	2030 02 4		262
107 F M50 PE	M50 60,1/ PE	5376576	2030 02 8		241
107 F M50 PE	M50 60,1/ PE	5376576	2030 02 8		262
107 F M63 PE	M63 73,8/ PE	5377290	2030 03 2		241
107 F M63 PE	M63 73,8/ PE	5377290	2030 03 2		262
107 F PG11 PE	Pg 11 23/ PE	5168317	2030 10 1		242
107 F PG11 PE	Pg 11 23/ PE	5168317	2030 10 1		263
107 F PG13.5 PE	Pg 13,5 25/ PE	5168379	2030 13 6		242
107 F PG13.5 PE	Pg 13,5 25/ PE	5168379	2030 13 6		263
107 F PG16 PE	Pg 16 27/ PE	5168430	2030 16 0		242
107 F PG16 PE	Pg 16 27/ PE	5168430	2030 16 0		263
107 F PG21 PE	Pg 21 34/ PE	5168492	2030 21 7		242
107 F PG21 PE	Pg 21 34/ PE	5168492	2030 21 7		263
107 F PG29 PE	Pg 29 44/ PE	5168553	2030 29 2		242
107 F PG29 PE	Pg 29 44/ PE	5168553	2030 29 2		263
107 F PG36 PE	Pg 36 55,5/ PE	5168614	2030 36 5		242
107 F PG36 PE	Pg 36 55,5/ PE	5168614	2030 36 5		263
107 F PG42 PE	Pg 42 63,5/ PE	5168676	2030 41 1		242
107 F PG42 PE	Pg 42 63,5/ PE	5168676	2030 41 1		263
107 F PG48 PE	Pg 48 69,5/ PE	5168737	2030 48 9		242
107 F PG48 PE	Pg 48 69,5/ PE	5168737	2030 48 9		263
107 F PG7 PE	Pg 7 16,5/ PE	5168195	2030 07 1		242
107 F PG7 PE	Pg 7 16,5/ PE	5168195	2030 07 1		263
107 F PG9 PE	Pg 9 19/ PE	5168256	2030 09 8		242
107 F PG9 PE	Pg 9 19/ PE	5168256	2030 09 8		263
107 R M20-12 PA	M20 M12/ PA	5377412	2030 61 6		236
107 R M20-16 PA	M20 M16/ PA	5383352	2030 61 9		236
107 R M25-12 PA	M25 M12/ PA	5384076	2030 62 4		236
107 R M25-16 PA	M25 M16/ PA	5389118	2030 62 6		236
107 R M25-20 PA	M25 M20/ PA	5389170	2030 62 8		236
107 R M32-12 PA	M32 M12/ PA	5394518	2030 63 2		236
107 R M32-16 PA	M32 M16/ PA	5401711	2030 63 4		236
107 R M32-20 PA	M32 M20/ PA	5402497	2030 63 7		236
107 R M32-25 PA	M32 M25/ PA	5402558	2030 64 0		236
107 R M40-16 PA	M40 M16/ PA	5402619	2030 64 3		236
107 R M40-20 PA	M40 M20/ PA	5402671	2030 64 6		236
107 R M40-25 PA	M40 M25/ PA	5402732	2030 64 9		236
107 R M40-32 PA	M40 M32/ PA	5402794	2030 65 2		236
107 R M50-20 PA	M50 M20/ PA	5402978	2030 65 5		236
107 R M50-25 PA	M50 M25/ PA	5403517	2030 65 9		236
107 R M50-32 PA	M50 M32/ PA	5403999	2030 66 1		236
107 R M50-40 PA	M50 M40/ PA	5404118	2030 66 4		236
107 R M63-25 PA	M63 M25/ PA	5405610	2030 66 7		236
107 R M63-32 PA	M63 M32/ PA	5405795	2030 67 0		236
107 R M63-40 PA	M63 M40/ PA	5405856	2030 67 3		236
107 R M63-50 PA	M63 M50/ PA	5407713	2030 67 5		236
107 R PG11- 7 PA	Pg 11 Pg 7/ PA	5824350	2030 70 5		237
107 R PG13- 9 PA	Pg 13,5 Pg 9/ PA	5434238	2030 71 3		237
107 R PG16- 9 PA	Pg 16 Pg 9/ PA	5434351	2030 74 8		237
107 R PG16-11 PA	Pg 16 Pg 11/ PA	5434412	2030 75 6		237
107 R PG21-11 PA	Pg 21 Pg 11/ PA	5907510	2030 76 4		237
107 R PG21-13 PA	Pg 21 Pg 13,5/ PA	5434535	2030 77 2		237
107 R PG21-16 PA	Pg 21 Pg 16/ PA	5434597	2030 78 0		237
107 R PG29-16 PA	Pg 29 Pg 16/ PA	5824411	2030 79 9		237
107 R PG29-21 PA	Pg 29 Pg 21/ PA	5434658	2030 80 2		237
107 R PG36-21 PA	Pg 36 Pg 21/ PA	5824473	2030 82 9		237
107 R PG36-29 PA	Pg 36 Pg 29/ PA	5434719	2030 81 0		237
107 R PG42-29 PA	Pg 42 Pg 29/ PA	5824534	2030 83 7		237
107 RZ PG 9-7	Pg 9 Pg 7/ PA	5445753	2031 30 2		237
107 RZ PG11-9	Pg 11 Pg 9/ PA	5445814	2031 32 9		237
107 RZ PG13-11	Pg 13,5 Pg 11/ PA	5445937	2031 34 5		237
107 RZ PG16-13	Pg 16 Pg 13,5/ PA	5446057	2031 38 8		237
107 RZ PG21-16	Pg 21 Pg 16/ PA	5446118	2031 41 8		237
107 RZ PG29-21	Pg 29 Pg 21/ PA	5446170	2031 44 2		237
107 S VTEC M12	M12 12/ ZPE	5035299	2028 87 0		222
107 S VTEC M12	M12 12/ ZPE	5035299	2028 87 0		242
107 S VTEC M12	M12 12/ ZPE	5035299	2028 87 0		263
107 S VTEC M16	M16 16/ ZPE	5035350	2028 87 3		222
107 S VTEC M16	M16 16/ ZPE	5035350	2028 87 3		242
107 S VTEC M16	M16 16/ ZPE	5035350	2028 87 3		263
107 S VTEC M20	M20 20/ ZPE	5035411	2028 87 5		222

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Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
107 S VTEC M20	M20 20/ ZPE	5035411	2028 87 5		242
107 S VTEC M20	M20 20/ ZPE	5035411	2028 87 5		263
107 S VTEC M25	M25 25/ ZPE	5035473	2028 87 7		222
107 S VTEC M25	M25 25/ ZPE	5035473	2028 87 7		242
107 S VTEC M25	M25 25/ ZPE	5035473	2028 87 7		263
107 S VTEC M32	M32 32/ ZPE	5035534	2028 88 0		222
107 S VTEC M32	M32 32/ ZPE	5035534	2028 88 0		242
107 S VTEC M32	M32 32/ ZPE	5035534	2028 88 0		263
107 S VTEC M40	M40 40/ ZPE	5035596	2028 88 3		222
107 S VTEC M40	M40 40/ ZPE	5035596	2028 88 3		242
107 S VTEC M40	M40 40/ ZPE	5035596	2028 88 3		263
107 S VTEC M50	M50 50/ ZPE	5035718	2028 88 5		222
107 S VTEC M50	M50 50/ ZPE	5035718	2028 88 5		242
107 S VTEC M50	M50 50/ ZPE	5035718	2028 88 5		263
107 S VTEC PG11	Pg 11 16,5/ ZPE	5843672	2028 91 3		223
107 S VTEC PG11	Pg 11 16,5/ ZPE	5843672	2028 91 3		243
107 S VTEC PG11	Pg 11 16,5/ ZPE	5843672	2028 91 3		264
107 S VTEC PG13	Pg 13,5 18,5/ ZPE	5843733	2028 92 1		223
107 S VTEC PG13	Pg 13,5 18,5/ ZPE	5843733	2028 92 1		243
107 S VTEC PG13	Pg 13,5 18,5/ ZPE	5843733	2028 92 1		264
107 S VTEC PG16	Pg 16 21/ ZPE	5843795	2028 94 8		223
107 S VTEC PG16	Pg 16 21/ ZPE	5843795	2028 94 8		243
107 S VTEC PG16	Pg 16 21/ ZPE	5843795	2028 94 8		264
107 S VTEC PG21	Pg 21 26,5/ ZPE	5843856	2028 95 6		223
107 S VTEC PG21	Pg 21 26,5/ ZPE	5843856	2028 95 6		243
107 S VTEC PG21	Pg 21 26,5/ ZPE	5843856	2028 95 6		264
107 S VTEC PG29	Pg 29 34,5/ ZPE	5843917	2028 96 4		223
107 S VTEC PG29	Pg 29 34,5/ ZPE	5843917	2028 96 4		243
107 S VTEC PG29	Pg 29 34,5/ ZPE	5843917	2028 96 4		264
107 S VTEC PG36	Pg 36 44/ ZPE	5843979	2028 97 2		223
107 S VTEC PG36	Pg 36 44/ ZPE	5843979	2028 97 2		243
107 S VTEC PG36	Pg 36 44/ ZPE	5843979	2028 97 2		264
107 S VTEC PG42	Pg 42 50/ ZPE	5844037	2028 98 0		223
107 S VTEC PG42	Pg 42 50/ ZPE	5844037	2028 98 0		243
107 S VTEC PG42	Pg 42 50/ ZPE	5844037	2028 98 0		264
107 S VTEC PG48	Pg 48 56/ ZPE	5844099	2028 99 9		223
107 S VTEC PG48	Pg 48 56/ ZPE	5844099	2028 99 9		243
107 S VTEC PG48	Pg 48 56/ ZPE	5844099	2028 99 9		264
107 S VTEC PG7	Pg 7 11/ ZPE	5843559	2028 89 1		223
107 S VTEC PG7	Pg 7 11/ ZPE	5843559	2028 89 1		243
107 S VTEC PG7	Pg 7 11/ ZPE	5843559	2028 89 1		264
107 S VTEC PG9	Pg 9 14/ ZPE	5843610	2028 90 5		223
107 S VTEC PG9	Pg 9 14/ ZPE	5843610	2028 90 5		243
107 S VTEC PG9	Pg 9 14/ ZPE	5843610	2028 90 5		264
107 V PG 7 PVC	Pg 7 11/ PVC	5167594	2029 70 7		243
107 V PG 7 PVC	Pg 7 11/ PVC	5167594	2029 70 7		264
107 V PG 9 PVC	Pg 9 13,5/ PVC	5167655	2029 71 5		243
107 V PG 9 PVC	Pg 9 13,5/ PVC	5167655	2029 71 5		264
107 V PG11 PVC	Pg 11 16,5/ PVC	5167716	2029 72 3		243
107 V PG11 PVC	Pg 11 16,5/ PVC	5167716	2029 72 3		264
107 V PG13.5 PVC	Pg 13,5 18,5/ PVC	5167778	2029 73 1		243
107 V PG13.5 PVC	Pg 13,5 18,5/ PVC	5167778	2029 73 1		264
107 V PG16 PVC	Pg 16 20,5/ PVC	5167839	2029 75 8		243
107 V PG16 PVC	Pg 16 20,5/ PVC	5167839	2029 75 8		264
107 V PG21 PVC	Pg 21 26/ PVC	5167891	2029 76 6		243
107 V PG21 PVC	Pg 21 26/ PVC	5167891	2029 76 6		264
107 V PG29 PVC	Pg 29 35/ PVC	5167952	2029 77 4		243
107 V PG29 PVC	Pg 29 35/ PVC	5167952	2029 77 4		264
107 W PG 9 PA	Pg 9 Light grey/ PA	5445395	2029 90 1		239
107 W PG11 PA	Pg 11 Light grey/ PA	5445456	2029 92 8		239
107 W PG13.5 PA	Pg 13,5 Light grey/ PA	5445517	2029 93 6		239
107 W PG16 PA	Pg 16 Light grey/ PA	5445579	2029 94 4		239
107 W PG21 PA	Pg 21 Light grey/ PA	5445630	2029 95 2		239
107 Z PG 9 PA	Pg 9 Light grey/ PA	5161653	2023 09 1		235
107 Z PG11 PA	Pg 11 Light grey/ PA	5161714	2023 11 3		235
107 Z PG13.5 PA	Pg 13,5 Light grey/ PA	5161776	2023 12 1		235
107 Z PG16 PA	Pg 16 Light grey/ PA	5161837	2023 16 4		235
107 Z PG21 PA	Pg 21 Light grey/ PA	5161899	2023 21 0		235
107 Z PG29 PA	Pg 29 Light grey/ PA	5161950	2023 29 6		235
107CR VM 12	M12/ NBR-SBR	5360582	2029 56 0		222
107CR VM 16	M16/ NBR-SBR	5360599	2029 56 3		222
107CR VM 20	M20/ NBR-SBR	5360605	2029 56 6		222
107CR VM 25	M25/ NBR-SBR	5360636	2029 56 9		222
107CR VM 32	M32/ NBR-SBR	5360643	2029 57 2		222
107CR VM 40	M40/ NBR-SBR	5360650	2029 57 5		222
107CR VM 50	M50/ NBR-SBR	5360667	2029 57 8		222
107CR VM 63	M63/ NBR-SBR	5360698	2029 58 1		222
107VS VM 12 PA	M12 / Pg16 Light grey/ PA	5389972	2029 51 7		223
107VS VM 16 PA	M16 / Pg21 Light grey/ PA	5389989	2029 52 0		223
107VS VM 20 PA	M20 / Pg29 Light grey/ PA	5389996	2029 52 3		223
107VS VM 5 PA	M12 / Pg9 Light grey/ PA	5389934	2029 51 1		223
107VS VM 8 PA	M16 / Pg13,5 Light grey/ PA	5389941	2029 51 4		223
108 M12 PS	M12 x 1,5 15/ PS	5409274	2033 00 3		234
108 M16 PS	M16 x 1,5 20/ PS	5424031	2033 00 7		234
108 M20 PS	M20 x 1,5 24/ PS	5426554	2033 01 1		234
108 M25 PS	M25 x 1,5 30/ PS	5426615	2033 01 6		234
108 M32 PS	M32 x 1,5 37/ PS	5431299	2033 02 1		234
108 M40 PS	M40 x 1,5 46/ PS	5434177	2033 02 6		234
108 M50 PS	M50 x 1,5 56/ PS	5452478	2033 03 2		234
108 M63 PS	M63 x 1,5 70/ PS	5464778	2033 03 8		234
108 PG 7	Pg 7 14/ PS	5170235	2033 07 0		234
108 PG 9	Pg 9 19/ PS	5170297	2033 09 7		234
108 PG11	Pg 11 22/ PS	5170358	2033 11 9		234
108 PG13.5	Pg 13,5 25/ PS	5170419	2033 13 5		234
108 PG16	Pg 16 27/ PS	5170471	2033 15 1		234
108 PG21	Pg 21 34/ PS	5170532	2033 21 6		234
108 PG29	Pg 29 44/ PS	5170594	2033 29 1		234
108 PG36	Pg 36 58/ PS	5170655	2033 36 4		234
108 PG42	Pg 42 67/ PS	5170716	2033 42 9		234
108 PG48	Pg 48 73/ PS	5170778	2033 48 8		234
113 M20 LGR	M 20 x 1,5/ UF	5088639	2024 06 3		230
113 PG13.5 LGR	Pg 13,5/ UF	5162858	2024 13 6		229
113 PG16 LGR	Pg 16/ UF	5162919	2024 16 0		229
115 GR-GN	Natural 90	5228011	2340 03 8		243
116 M12 LGR PA	M12x1,5 Light grey/ PA	5874157	2048 90 6		232
116 M12 LGR PS	M12 x 1,5 Light grey/ PS	5128656	2049 50 3		233
116 M12 SGR PA	M12x1,5 Silver grey/ PA	5446477	2048 75 2		232
116 M12 SW PA	M12x1,5 Black/ PA	5089179	2049 06 6		232
116 M16 LGR PA	M16x1,5 Light grey/ PA	5874218	2048 91 4		232
116 M16 LGR PS	M16 x 1,5 Light grey/ PS	5139331	2049 51 1		233
116 M16 SGR PA	M16x1,5 Silver grey/ PA	5446538	2048 76 0		232
116 M16 SW PA	M16x1,5 Black/ PA	5095354	2049 07 4		232
116 M20 LGR PA	M20x1,5 Light grey/ PA	5944539	2048 92 2		232
116 M20 LGR PS	M20 x 1,5 Light grey/ PS	5153313	2049 53 8		233
116 M20 ORA PA	M20 x 1,5 Pastel orange/ PA	5875314	7205 64 4		182
116 M20 ORA PA	M20 x 1,5 Pastel orange/ PA	5875314	7205 64 4		232
116 M20 SGR PA	M20x1,5 Silver grey/ PA	5446590	2048 77 9		232
116 M20 SW PA	M20x1,5 Black/ PA	5095415	2049 08 2		232
116 M25 LGR PA	M25x1,5 Light grey/ PA	5944591	2048 93 0		232
116 M25 LGR PS	M25 x 1,5 Light grey/ PS	5155478	2049 54 6		233
116 M25 ORA PA	M25 x 1,5 Pastel orange/ PA	5875321	7205 64 7		182
116 M25 ORA PA	M25 x 1,5 Pastel orange/ PA	5875321	7205 64 7		232
116 M25 SGR PA	M25x1,5 Silver grey/ PA	5446651	2048 78 7		232
116 M25 SW PA	M25x1,5 Black/ PA	5095538	2049 09 0		232
116 M32 LGR PA	M32x1,5 Light grey/ PA	5944652	2048 94 9		232
116 M32 LGR PS	M32 x 1,5 Light grey/ PS	5161592	2049 55 4		233
116 M32 ORA PA	M32 x 1,5 Pastel orange/ PA	5810841	7205 65 0		182
116 M32 ORA PA	M32 x 1,5 Pastel orange/ PA	5810841	7205 65 0		232
116 M32 SGR PA	M32x1,5 Silver grey/ PA	5446712	2048 79 5		232
116 M32 SW PA	M32x1,5 Black/ PA	5095651	2049 10 4		232
116 M40 LGR PA	M40x1,5 Light grey/ PA	5088998	2048 95 7		232
116 M40 LGR PS	M40 x 1,5 Light grey/ PS	5228615	2049 56 2		233
116 M40 ORA PA	M40 x 1,5 Pastel orange/ PA	5810889	7205 65 3		182
116 M40 ORA PA	M40 x 1,5 Pastel orange/ PA	5810889	7205 65 3		232
116 M40 SGR PA	M40x1,5 Silver grey/ PA	5088752	2048 80 9		232
116 M40 SW PA	M40x1,5 Black/ PA	5095712	2049 11 2		232
116 M50 LGR PA	M50x1,5 Light grey/ PA	5089056	2048 96 5		232
116 M50 LGR PS	M50 x 1,5 Light grey/ PS	5232810	2049 57 0		233
116 M50 SGR PA	M50x1,5 Silver grey/ PA	5088875	2048 81 7		232
116 M50 SW PA	M50x1,5 Black/ PA	5096313	2049 12 0		232
116 M63 LGR PA	M63x1,5 Light grey/ PA	5089117	2048 97 3		232
116 M63 LGR PS	M63 x 1,5 Light grey/ PS	5315018	2049 58 9		233
116 M63 SGR PA	M63x1,5 Silver grey/ PA	5088936	2048 82 5		232
116 M63 SW PA	M63x1,5 Black/ PA	5127758	2049 13 9		232
116 PG 7	Pg 7 Light grey/ PS	5178811	2043 07 6		233
116 PG 9	Pg 9 Light grey/ PS	5178873	2043 09 2		233
116 PG11	Pg 11 Light grey/ PS	5178934	2043 11 4		233
116 PG13.5	Pg 13,5 Light grey/ PS	5178996	2043 13 0		233
116 PG16	Pg 16 Light grey/ PS	5179054	2043 16 5		233
116 PG21	Pg 21 Light grey/ PS	5179115	2043 21 1		233
116 PG29	Pg 29 Light grey/ PS	5179177	2043 29 7		233
116 PG36	Pg 36 Light grey/ PS	5179238	2043 35 1		233
116 PG42	Pg 42 Light grey/ PS	5179290	2043 42 4		233
116 PG48	Pg 48 Light grey/ PS	5179351	2043 48 3		233
116 VDE PG 9 PA	Pg 9 Light grey/ PA	5182474	2048 09 4		232
116 VDE PG11 PA	Pg 11 Light grey/ PA	5182535	2048 11 6		232

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price /100 pc.	Page
116 VDE PG13.5PA	Pg 13,5 Light grey/ PA	5182597	2048 13 2		232
116 VDE PG16 PA	Pg 16 Light grey/ PA	5182658	2048 16 7		232
116 VDE PG21 PA	Pg 21 Light grey/ PA	5182719	2048 22 1		232
116 VDE PG29 PA	Pg 29 Light grey/ PA	5182771	2048 29 9		232
116 VDE PG36 PA	Pg 36 Light grey/ PA	5182832	2048 36 1		232
116 VDE PG42 PA	Pg 42 Light grey/ PA	5182894	2048 42 6		232
116 VDE PG48 PA	Pg 48 Light grey/ PA	5182955	2048 48 5		232
116 VDE PG7 PA	Pg 7 Light grey/ PA	5182412	2048 07 8		232
117 5x2.5	28/ PS	5159858	2022 02 8		187
117 5x6	33,5/ PS	5159919	2022 06 0		187
129 M16	M16 Light grey/ PE	5490753	2047 81 0		333
129 M16 SW	M16 Black/ PE	5468851	2047 93 4		333
129 M20	M20 Light grey/ PE	5490692	2047 82 9		333
129 M20 SW	M20 Black/ PE	5468912	2047 94 2		333
129 M25	M25 Light grey/ PE	5490630	2047 83 7		333
129 M25 SW	M25 Black/ PE	5468974	2047 95 0		333
129 M32	M32 Light grey/ PE	5487692	2047 85 3		333
129 M32 SW	M32 Black/ PE	5469155	2047 96 9		333
129 M40	M40 Light grey/ PE	5037699	2047 86 1		333
129 M40 SW	M40 Black/ PE	5469216	2047 97 7		333
129 M50	M50 Light grey/ PE	5037637	2047 88 8		333
129 M50 SW	M50 Black/ PE	5469278	2047 98 5		333
129 M63	M63 Light grey/ PE	5037576	2047 89 6		333
129 M63 SW	M63 Black/ PE	5469339	2047 99 3		333
129 PG 9	Pg 9 Light grey/ PE	5180074	2044 09 9		333
129 PG11	Pg 11 Light grey/ PE	5180135	2044 11 0		333
129 PG13.5	Pg 13,5 Light grey/ PE	5180197	2044 13 7		333
129 PG16	Pg 16 Light grey/ PE	5180258	2044 16 1		333
129 PG21	Pg 21 Light grey/ PE	5180319	2044 21 8		333
129 PG29	Pg 29 Light grey/ PE	5180371	2044 29 3		333
129 PG36	Pg 36 Light grey/ PE	5180432	2044 36 6		333
129 PG42	Pg 42 Light grey/ PE	5180494	2044 42 0		333
129 PG48	Pg 48 Light grey/ PE	5180555	2044 47 1		333
157 MS PG 7	Pg 7 1000/ CuZn / N	5157755	2013 06 1		258
157 MS PG 9	Pg 9 1200/ CuZn / N	5157816	2013 09 6		258
157 MS PG11	Pg 11 1000/ CuZn / N	5157878	2013 11 8		258
157 MS PG13.5	Pg 13,5 1000/ CuZn / N	5157939	2013 13 4		258
157 MS PG16	Pg 16 300/ CuZn / N	5157991	2013 16 9		258
157 MS PG21	Pg 21 200/ CuZn / N	5158059	2013 21 5		258
157 MS PG29	Pg 29 100/ CuZn / N	5158110	2013 29 0		258
158 MS PG11	Pg 11 200/ CuZn / N	5181330	2045 11 7		254
158 MS PG16	Pg 16 250/ CuZn / N	5181453	2045 16 8		254
158 MS PG29	Pg 29 100/ CuZn / N	5181576	2045 28 1		254
158 MS PG36	Pg 36 50/ CuZn / N	5181637	2045 36 2		254
159 MS PG 7	Pg 7/ CuZn / N	5181811	2046 07 5		255
159 MS PG 9	Pg 9/ CuZn / N	5181873	2046 09 1		255
159 MS PG11	Pg 11/ CuZn / N	5181934	2046 11 3		255
159 MS PG13.5	Pg 13,5/ CuZn / N	5181996	2046 12 1		255
159 MS PG16	Pg 16/ CuZn / N	5182054	2046 16 4		255
159 MS PG21	Pg 21/ CuZn / N	5182115	2046 21 0		255
159 MS PG29	Pg 29/ CuZn / N	5182177	2046 29 6		255
159 MS PG36	Pg 36/ CuZn / N	5182238	2046 36 9		255
159 MS PG42	Pg 42/ CuZn / N	5182290	2046 42 3		255
159 MS PG48	Pg 48/ CuZn / N	5182351	2046 48 2		255
160 G MS PG 9	Pg 9 1500/ CuZn / N	5186014	2080 70 2		250
160 G MS PG13.5	Pg 13,5 600/ CuZn / N	5186137	2080 74 5		250
160 L MS PG21	Pg 21 250/ CuZn / N	5186670	2081 21 0		250
160 MS M12	M12 x 1,5 1600/ CuZn / N	5478218	2079 80 1		249
160 MS M16	M16 x 1,5 1500/ CuZn / N	5478935	2079 82 8		249
160 MS M20	M20 x 1,5 600/ CuZn / N	5478997	2079 83 6		249
160 MS M25	M25 x 1,5 300/ CuZn / N	5479055	2079 84 4		249
160 MS M32	M32 x 1,5 250/ CuZn / N	5479178	2079 85 2		249
160 MS M40	M40 x 1,5 120/ CuZn / N	5479239	2079 86 0		249
160 MS M50	M50 x 1,5 80/ CuZn / N	5479291	2079 87 9		249
160 MS M63	M63 x 1,5 50/ CuZn / N	5479352	2079 88 7		249
160 MS PG 7	Pg 7 1600/ CuZn / N	5185055	2080 07 9		249
160 MS PG 9	Pg 9 1500/ CuZn / N	5185116	2080 09 5		249
160 MS PG11	Pg 11 600/ CuZn / N	5185178	2080 11 7		249
160 MS PG13.5	Pg 13,5 600/ CuZn / N	5185239	2080 13 3		249
160 MS PG16	Pg 16 450/ CuZn / N	5185291	2080 16 8		249
160 MS PG21	Pg 21 250/ CuZn / N	5185352	2080 21 4		249
160 MS PG29	Pg 29 200/ CuZn / N	5185413	2080 28 1		249
160 MS PG36	Pg 36 120/ CuZn / N	5185475	2080 36 2		249
160 MS PG42	Pg 42 50/ CuZn / N	5185536	2080 42 7		249
160 MS PG48	Pg 48 50/ CuZn / N	5185598	2080 48 6		249
161 MS M16	M16 x 1,5 1500/ CuZn / N	5204558	2079 90 5		250
161 MS M32	M32 x 1,5 200/ CuZn / N	5203834	2079 91 7		250
161 MS M63	M63x1,5 50/ CuZn / N	5517634	2079 92 9		250
161 MS PG13.5	Pg 13,5 600/ CuZn / N	5185710	2080 52 4		251
161 MS PG16	Pg 16 450/ CuZn / N	5185772	2080 54 0		251
161 MS PG21	Pg 21 250/ CuZn / N	5185833	2080 56 7		251
161 MS PG29	Pg 29 200/ CuZn / N	5185895	2080 58 3		251
162 MS M16	M16 x 1,5 1500/ CuZn / N	5517696	2083 71 2		251
162 MS M20	M20 x 1,5 450/ CuZn / N	5517757	2083 71 6		251
162 MS M25	M25 x 1,5 250/ CuZn / N	5517818	2083 72 0		251
162 MS M32	M32 x 1,5 200/ CuZn / N	5517870	2083 72 4		251
162 MS M40	M40 x 1,5 120/ CuZn / N	5517931	2083 72 8		251
162 MS M50	M50 x 1,5 50/ CuZn / N	5517993	2083 73 2		251
162 MS M63	M63 x 1,5 50/ CuZn / N	5518051	2083 73 6		251
162 MS PG 9	Pg 9 1500/ CuZn / N	5582670	2082 51 9		252
162 MS PG11	Pg 11 600/ CuZn / N	5187578	2082 50 0		252
162 MS PG13.5	Pg 13,5 600/ CuZn / N	5187639	2082 52 7		252
162 MS PG16	Pg 16 450/ CuZn / N	5187691	2082 54 3		252
162 MS PG21	Pg 21 250/ CuZn / N	5187752	2082 57 8		252
162 MS PG29	Pg 29 200/ CuZn / N	5187813	2082 59 4		252
162 MS PG36	Pg 36 80/ CuZn / N	5187875	2082 61 6		252
163 G MS PG 9	Pg 9 1500/ CuZn / N	5187936	2082 70 5		254
163 G MS PG13.5	Pg 13,5 450/ CuZn / N	5188056	2082 72 1		254
163 L MS PG 9	Pg 9 1200/ CuZn / N	5188292	2083 09 4		253
163 L MS PG11	Pg 11 500/ CuZn / N	5188353	2083 11 6		253
163 L MS PG13	Pg 13,5 500/ CuZn / N	5188414	2083 13 2		253
163 L MS PG16	Pg 16 300/ CuZn / N	5188476	2083 16 7		253
163 L MS PG21	Pg 21 250/ CuZn / N	5188537	2083 21 3		253
163 L MS PG29	Pg 29 200/ CuZn / N	5188599	2083 29 9		253
163 MS M12	M12 x 1,5 1600/ CuZn / N	5481331	2083 61 2		252
163 MS M16	M16 x 1,5 900/ CuZn / N	5481393	2083 62 0		252
163 MS M20	M20 x 1,5 450/ CuZn / N	5481874	2083 63 9		252
163 MS M25	M25 x 1,5 250/ CuZn / N	5481997	2083 64 7		252
163 MS M32	M32 x 1,5 200/ CuZn / N	5482055	2083 65 5		252
163 MS M40	M40 x 1,5 120/ CuZn / N	5482116	2083 66 3		252
163 MS M50	M50 x 1,5 50/ CuZn / N	5482178	2083 67 1		252
163 MS M63	M63 x 1,5 50/ CuZn / N	5482239	2083 69 8		252
163 MS PG 7	Pg 7 1600/ CuZn / N	5186977	2082 07 1		253
163 MS PG 9	Pg 9 1500/ CuZn / N	5187035	2082 09 8		253
163 MS PG11	Pg 11 500/ CuZn / N	5187097	2082 10 1		253
163 MS PG13.5	Pg 13,5 450/ CuZn / N	5187158	2082 13 6		253
163 MS PG16	Pg 16 450/ CuZn / N	5187219	2082 16 0		253
163 MS PG21	Pg 21 250/ CuZn / N	5187271	2082 21 7		253
163 MS PG29	Pg 29 200/ CuZn / N	5187332	2082 29 2		253
163 MS PG36	Pg 36 120/ CuZn / N	5187394	2082 36 5		253
163 MS PG42	Pg 42 50/ CuZn / N	5187455	2082 41 1		253
163 MS PG48	Pg 48 50/ CuZn / N	5187516	2082 48 9		253
164 MS PG11	Pg 11 15/ CuZn / N	5188834	2084 11 2		257
164 MS PG13	Pg 13,5 17/ CuZn / N	5188896	2084 13 9		257
164 MS PG16	Pg 16 18,5/ CuZn / N	5188957	2084 16 3		257
164 MS PG21	Pg 21 24/ CuZn / N	5189015	2084 20 1		257
164 MS PG29	Pg 29 32/ CuZn / N	5189077	2084 29 5		257
164 MS PG36	Pg 36 42/ CuZn / N	5189138	2084 36 8		257
164 MS PG42	Pg 42 48/ CuZn / N	5189190	2084 42 2		257
164 MS PG48	Pg 48 52,5/ CuZn / N	5189251	2084 48 1		257
165 ADA M 50-63	M50 M63/ CuZn / N	5372219	2088 28 6		258
165 ADA M12-16	M12 M16/ CuZn / N	5372158	2088 28 0		258
165 ADA M12-PG7	M12 PG7/ CuZn / N	5372325	2088 30 1		260
165 ADA M16-20	M16 M20/ CuZn / N	5372165	2088 28 1		258
165 ADA M16-PG11	M16 PG11/ CuZn / N	5372332	2088 30 2		260
165 ADA M16-PG7	M16 PG7/ CuZn / N	5390923	2088 31 0		261
165 ADA M16-PG9	M16 PG9/ CuZn / N	5390930	2088 31 2		260
165 ADA M20-25	M20 M25/ CuZn / N	5372172	2088 28 2		258
165 ADA M20-PG11	M20 PG11/ CuZn / N	5390954	2088 31 6		260
165 ADA M20-PG13	M20 PG13,5/ CuZn / N	5372349	2088 30 3		260
165 ADA M20-PG16	M20 PG16/ CuZn / N	5390961	2088 31 8		260
165 ADA M20-PG9	M20 PG9/ CuZn / N	5390947	2088 31 4		261
165 ADA M25-32	M25 M32/ CuZn / N	5372189	2088 28 3		258
165 ADA M25-PG11	M25 PG11/ CuZn / N	5391005	2088 32 0		261
165 ADA M25-PG13	M25 PG13,5/ CuZn / N	5391012	2088 32 2		261
165 ADA M25-PG16	M25 PG16/ CuZn / N	5372356	2088 30 4		260
165 ADA M25-PG21	M25 PG21/ CuZn / N	5391029	2088 32 4		260
165 ADA M32-40	M32 M40/ CuZn / N	5372196	2088 28 4		258
165 ADA M32-PG16	M32 PG16/ CuZn / N	5391067	2088 32 8		261
165 ADA M32-PG21	M32 PG21/ CuZn / N	5372363	2088 30 5		261
165 ADA M32-PG29	M32 PG29/ CuZn / N	5391074	2088 33 0		260
165 ADA M40-50	M40 M50/ CuZn / N	5372202	2088 28 5		258
165 ADA M40-PG21	M40 PG21/ CuZn / N	5391081	2088 33 4		261
165 ADA M40-PG29	M40 PG29/ CuZn / N	5372400	2088 30 6		260
165 ADA M50-PG29	M50 PG29/ CuZn / N	5391135	2088 34 0		261
165 ADA M50-PG42	M50 PG42/ CuZn / N	5372417	2088 30 7		260
165 ADA M63-PG36	M63 PG36/ CuZn / N	5391142	2088 34 4		261
165 ADA M63-PG42	M63 PG42/ CuZn / N	5391173	2088 34 6		261
165 ADA M63-PG48	M63 PG48/ CuZn / N	5391180	2088 34 8		260

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Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

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				/100 pc.	
165 ADA PG11-M16	PG11 M16/ CuZn / N	5372240	2088 29 2		261
165 ADA PG13-M20	PG13,5 M20/ CuZn / N	5372257	2088 29 3		261
165 ADA PG16-M20	PG16 M20/ CuZn / N	5372264	2088 29 4		261
165 ADA PG16-M25	PG16 M25/ CuZn / N	5372271	2088 29 5		261
165 ADA PG21-M25	PG21 M25/ CuZn / N	5372288	2088 29 6		261
165 ADA PG21-M32	PG21 M32/ CuZn / N	5372295	2088 29 7		261
165 ADA PG29-M25	PG29 M25/ CuZn / N	5390916	2088 28 9		261
165 ADA PG29-M40	PG29 M40/ CuZn / N	5372301	2088 29 8		261
165 ADA PG36-M50	PG36 M50/ CuZn / N	5372318	2088 29 9		261
165 ADA PG7-M12	PG7 M12/ CuZn / N	5372226	2088 29 0		261
165 ADA PG9-M16	PG9 M16/ CuZn / N	5372233	2088 29 1		261
165 MS EZ PG7-9	Pg 7 Pg 9/ CuZn / N	5190813	2088 02 9		259
165 MS EZPG11-Pg13	Pg 11 Pg 13,5/ CuZn / N	5190998	2088 09 6		259
165 MS EZPG11-16	Pg 11 Pg 16/ CuZn / N	5191056	2088 12 6		259
165 MS EZPG13-Pg16	Pg 13,5 Pg 16/ CuZn / N	5191117	2088 14 2		259
165 MS EZPG13-21	Pg 13,5 Pg 21/ CuZn / N	5191179	2088 16 9		259
165 MS EZPG16-21	Pg 16 Pg 21/ CuZn / N	5191230	2088 18 5		259
165 MS EZPG21-29	Pg 21 Pg 29/ CuZn / N	5191292	2088 20 7		259
165 MS EZPG29-36	Pg 29 Pg 36/ CuZn / N	5191353	2088 22 3		259
165 MS EZPG36-42	Pg 36 Pg 42/ CuZn / N	5191414	2088 25 8		259
165 MS EZPG42-48	Pg 42 Pg 48/ CuZn / N	5191476	2088 27 4		259
165 MS EZPG9-11	Pg 9 Pg 11/ CuZn / N	5190875	2088 04 5		259
165 MS EZPG9-13	Pg 9 Pg 13,5/ CuZn / N	5190936	2088 06 1		259
167 R MS M16-12	M16 M12/ CuZn / N	5475392	2089 50 5		259
167 R MS M20-12	M20 M12/ CuZn / N	5475453	2089 51 3		259
167 R MS M20-16	M20 M16/ CuZn / N	5475514	2089 52 1		259
167 R MS M25-16	M25 M16/ CuZn / N	5475576	2089 54 8		259
167 R MS M25-20	M25 M20/ CuZn / N	5475637	2089 55 6		259
167 R MS M32-20	M32 M20/ CuZn / N	5475699	2089 56 4		259
167 R MS M32-25	M32 M25/ CuZn / N	5475750	2089 57 2		259
167 R MS M40-25	M40 M25/ CuZn / N	5475811	2089 58 0		259
167 R MS M40-32	M40 M32/ CuZn / N	5475873	2089 59 9		259
167 R MS M50-32	M50 M32/ CuZn / N	5476412	2089 60 2		259
167 R MS M50-40	M50 M40/ CuZn / N	5476474	2089 61 0		259
167 R MS M63-40	M63 M40/ CuZn / N	5476535	2089 62 9		259
167 R MS M63-50	M63 M50/ CuZn / N	5476597	2089 63 7		259
167 R MS PG11-7	Pg 11 Pg 7/ CuZn / N	5192794	2089 04 1		260
167 R MS PG11-9	Pg 11 Pg 9/ CuZn / N	5192855	2089 07 6		260
167 R MS PG13-11	Pg 13,5 Pg 11/ CuZn / N	5193036	2089 13 0		260
167 R MS PG13-7	Pg 13,5 Pg 7/ CuZn / N	5192916	2089 09 2		260
167 R MS PG13-9	Pg 13,5 Pg 9/ CuZn / N	5192978	2089 11 4		260
167 R MS PG16-11	Pg 16 Pg 11/ CuZn / N	5193159	2089 17 3		260
167 R MS PG16-Pg13	Pg 16 Pg 13,5/ CuZn / N	5193210	2089 20 3		260
167 R MS PG16-9	Pg 16 Pg 9/ CuZn / N	5193098	2089 15 7		260
167 R MS PG21-11	Pg 21 Pg 11/ CuZn / N	5193272	2089 23 8		260
167 R MS PG21-Pg13	Pg 21 Pg 13,5/ CuZn / N	5193333	2089 25 4		260
167 R MS PG21-16	Pg 21 Pg 16/ CuZn / N	5193395	2089 27 0		260
167 R MS PG29-16	Pg 29 Pg 16/ CuZn / N	5193456	2089 29 7		260
167 R MS PG29-21	Pg 29 Pg 21/ CuZn / N	5193517	2089 31 9		260
167 R MS PG36-21	Pg 36 Pg 21/ CuZn / N	5193579	2089 33 5		260
167 R MS PG36-29	Pg 36 Pg 29/ CuZn / N	5193630	2089 35 1		260
167 R MS PG42-36	Pg 42 Pg 36/ CuZn / N	5193753	2089 40 8		260
167 R MS PG48-36	Pg 48 Pg 36/ CuZn / N	5193814	2089 42 4		260
167 R MS PG48-42	Pg 48 Pg 42/ CuZn / N	5193876	2089 44 0		260
167 R MS PG9-7	Pg 9 Pg 7/ CuZn / N	5192732	2089 02 5		260
168 MS M12	M12 x 1,5 16/ CuZn / N	5471738	2090 51 1		257
168 MS M16	M16 x 1,5 20/ CuZn / N	5471790	2090 53 8		257
168 MS M20	M20 x 1,5 22/ CuZn / N	5472810	2090 54 6		257
168 MS M25	M25 x 1,5 28/ CuZn / N	5472933	2090 55 4		257
168 MS M32	M32 x 1,5 35/ CuZn / N	5472995	2090 56 2		257
168 MS M40	M40 x 1,5 45/ CuZn / N	5473411	2090 57 0		257
168 MS M50	M50 x 1,5 55/ CuZn / N	5474012	2090 58 9		257
168 MS M63	M63 x 1,5 68/ CuZn / N	5474074	2090 59 7		257
168 MS PG 7	Pg 7 14/ CuZn / N	5193937	2090 07 4		257
168 MS PG 9	Pg 9 17/ CuZn / N	5193999	2090 09 0		257
168 MS PG11	Pg 11 20/ CuZn / N	5194057	2090 11 2		257
168 MS PG13	Pg 13,5 22/ CuZn / N	5194118	2090 13 9		257
168 MS PG16	Pg 16 24/ CuZn / N	5194170	2090 16 3		257
168 MS PG21	Pg 21 30/ CuZn / N	5194231	2090 20 1		257
168 MS PG29	Pg 29 39/ CuZn / N	5194293	2090 29 5		257
168 MS PG36	Pg 36 50/ CuZn / N	5194354	2090 36 8		257
168 MS PG42	Pg 42 57/ CuZn / N	5194415	2090 42 2		257
168 MS PG48	Pg 48 64/ CuZn / N	5194477	2090 48 1		257
169 MS M12	M12 x 1,5 15/ CuZn / N	5474135	2091 60 7		256
169 MS M16	M16 x 1,5 20/ CuZn / N	5931690	2091 61 5		256
169 MS M20	M20 x 1,5 24/ CuZn / N	5931751	2091 62 3		256
169 MS M25	M25 x 1,5 30/ CuZn / N	5931812	2091 63 1		256
169 MS M32	M32 x 1,5 35/ CuZn / N	5931874	2091 65 8		256
169 MS M40	M40 x 1,5 45/ CuZn / N	5474197	2091 66 6		256
169 MS M50	M50 x 1,5 55/ CuZn / N	5474791	2091 67 4		256
169 MS M63	M63 x 1,5 70/ CuZn / N	5474852	2091 68 2		256
169 MS M75	M75 x 1,5 90/ CuZn / N	5897712	2091 68 5		256
169 MS PG 7	Pg 7 15/ CuZn / N	5194538	2091 07 0		256

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
169 MS PG 9	Pg 9 18/ CuZn / N	5194590	2091 09 7		256
169 MS PG11	Pg 11 21/ CuZn / N	5194651	2091 11 9		256
169 MS PG13.5	Pg 13,5 23/ CuZn / N	5194712	2091 13 5		256
169 MS PG16	Pg 16 26/ CuZn / N	5194774	2091 15 1		256
169 MS PG21	Pg 21 32/ CuZn / N	5194835	2091 21 6		256
169 MS PG29	Pg 29 41/ CuZn / N	5194897	2091 29 1		256
169 MS PG36	Pg 36 51/ CuZn / N	5194958	2091 36 4		256
169 MS PG42	Pg 42 60/ CuZn / N	5195016	2091 42 9		256
169 MS PG48	Pg 48 64/ CuZn / N	5195078	2091 48 8		256
169 MSS M12	M 12x1,5 15/ CuZn / N	5903710	2091 70 5		256
169 MSS M16	M 16x1,5 19/ CuZn / N	5903727	2091 70 9		256
169 MSS M20	M 20x1,5 24/ CuZn / N	5903758	2091 71 3		256
169 MSS M25	M 25x1,5 30/ CuZn / N	5903765	2091 71 7		256
169 MSS M32	M 32x1,5 36/ CuZn / N	5903772	2091 72 1		256
169 MSS M40	M 40x1,5 46/ CuZn / N	5903789	2091 72 5		256
169 MSS M50	M 50x1,5 60/ CuZn / N	5903819	2091 72 9		256
169 MSS M63	M 63x1,5 70/ CuZn / N	5903826	2091 73 3		256
170 M16	M16 19,9/ FA	5469810	2088 42 8		241
170 M16	M16 19,9/ FA	5469810	2088 42 8		262
170 M20	M20 24/ FA	5469933	2088 43 6		241
170 M20	M20 24/ FA	5469933	2088 43 6		262
170 M25	M25 30/ FA	5469995	2088 44 4		241
170 M25	M25 30/ FA	5469995	2088 44 4		262
170 M32	M32 38/ FA	5470052	2088 45 2		241
170 M32	M32 38/ FA	5470052	2088 45 2		262
170 M40	M40 47/ FA	5470533	2088 46 0		241
170 M40	M40 47/ FA	5470533	2088 46 0		262
170 M50	M50 57/ FA	5470595	2088 47 9		241
170 M50	M50 57/ FA	5470595	2088 47 9		262
171 M12	M12 10/ NBR	5470953	2088 70 3		242
171 M12	M12 10/ NBR	5470953	2088 70 3		263
171 M16	M16 13/ NBR	5471011	2088 71 1		242
171 M16	M16 13/ NBR	5471011	2088 71 1		263
171 M20	M20 18/ NBR	5471257	2088 73 8		242
171 M20	M20 18/ NBR	5471257	2088 73 8		263
171 M25	M25 22/ NBR	5471318	2088 74 6		242
171 M25	M25 22/ NBR	5471318	2088 74 6		263
171 M32	M32 29/ NBR	5471370	2088 75 4		242
171 M32	M32 29/ NBR	5471370	2088 75 4		263
171 M40	M40 36/ NBR	5471554	2088 76 2		242
171 M40	M40 36/ NBR	5471554	2088 76 2		263
171 M50	M50 46/ NBR	5471615	2088 77 0		242
171 M50	M50 46/ NBR	5471615	2088 77 0		263
171 M63	M63 59/ NBR	5471677	2088 78 9		242
171 M63	M63 59/ NBR	5471677	2088 78 9		263
171 PG 9	Pg 9 13/ NBR	5192190	2088 81 9		242
171 PG 9	Pg 9 13/ NBR	5192190	2088 81 9		263
171 PG11	Pg 11 16/ NBR	5192251	2088 82 7		242
171 PG11	Pg 11 16/ NBR	5192251	2088 82 7		263
171 PG13.5	Pg 13,5 18/ NBR	5192312	2088 83 5		242
171 PG13.5	Pg 13,5 18/ NBR	5192312	2088 83 5		263
171 PG16	Pg 16 20/ NBR	5192374	2088 84 3		242
171 PG16	Pg 16 20/ NBR	5192374	2088 84 3		263
171 PG21	Pg 21 25/ NBR	5192435	2088 85 1		242
171 PG21	Pg 21 25/ NBR	5192435	2088 85 1		263
171 PG29	Pg 29 33/ NBR	5192497	2088 87 8		242
171 PG29	Pg 29 33/ NBR	5192497	2088 87 8		263
171 PG36	Pg 36 43/ NBR	5192558	2088 88 6		242
171 PG36	Pg 36 43/ NBR	5192558	2088 88 6		263
171 PG42	Pg 42 50/ NBR	5192619	2088 89 4		242
171 PG42	Pg 42 50/ NBR	5192619	2088 89 4		263
				/pc.	
186	25	5864974	3010 10 4		221
				/100 pc.	
192	1200/ St / DD	6209774	6490 90 5		314
197 VA4301	1800/ V2A	6209835	6490 96 4		314
255 11 LGR	11 Light grey/ PA	5214335	2222 11 6		280
255 12.5 LGR	12,5 Light grey/ PA	5214397	2222 12 4		280
255 14 LGR	14 Light grey/ PA	5214458	2222 14 0		280
255 16 LGR	16 Light grey/ PA	5214519	2222 16 7		280
255 17.5 LGR	17,5 Light grey/ PA	5214571	2222 17 5		280
255 3.2 LGR	3,2 Light grey/ PA	5214038	2222 03 5		280
255 5.2 LGR	5,2 Light grey/ PA	5214090	2222 05 1		280
255 6.5 LGR	6,5 Light grey/ PA	5214151	2222 07 8		280
255 8 LGR	8 Light grey/ PA	5214212	2222 08 6		280
255 9.5 LGR	9,5 Light grey/ PA	5214274	2222 09 4		280

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Always indicate the item number when ordering.

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
261 3-6 G	3-6 M6 x 12/ St / G	5417132	5305 01 2		319
261 3-6 V4A	3-6 M6 x 12/ V4A	5901785	5305 01 6		320
325 100 FT	1009/ St / FT	5422716	5327 10 5		345
325 130 FT	1308/ St / FT	5422778	5327 12 1		345
325 70 FT	7010/ St / FT	5422594	5327 07 5		345
325 80 FT	8010/ St / FT	5422655	5327 08 3		345
328 1	5-11 57/ St / ZD	5126799	1408 01 1		346
328 2	10-19 67/ St / ZD	5126850	1408 04 6		346
				/100 pairs	
339 1	4-16 100/ St	5126973	1408 51 8		344
339 2	6-34 40/ St	5127031	1408 53 4		345
				/100 pc.	
342 M10X20 G	M10 x 2020/ St / G	5256816	3160 20 3		385
342 M10X20 G	M10 x 2020/ St / G	5256816	3160 20 3		434
342 M10X30 G	M10 x 3030/ St / G	5256939	3160 30 0		385
342 M10X30 G	M10 x 3030/ St / G	5256939	3160 30 0		434
342 M10X40 G	M10 x 4040/ St / G	5257059	3160 40 8		385
342 M10X40 G	M10 x 4040/ St / G	5257059	3160 40 8		434
342 M10X50 G	M10 x 5050/ St / G	5257110	3160 50 5		385
342 M10X50 G	M10 x 5050/ St / G	5257110	3160 50 5		434
342 M10X60 G	M10 x 6060/ St / G	5257172	3160 60 2		385
342 M10X60 G	M10 x 6060/ St / G	5257172	3160 60 2		434
342 M12X30 G	M12 x 3030/ St / G	5257592	3162 30 3		385
342 M12X30 G	M12 x 3030/ St / G	5257592	3162 30 3		434
342 M12X40 G	M12 x 4040/ St / G	5257714	3162 40 0		385
342 M12X40 G	M12 x 4040/ St / G	5257714	3162 40 0		434
342 M12X50 G	M12 x 5050/ St / G	5257776	3162 50 8		385
342 M12X50 G	M12 x 5050/ St / G	5257776	3162 50 8		434
342 M6X16 G	M6 x 1616/ St / G	5255437	3156 14 1		434
342 M6X20 G	M6 x 2020/ St / G	5255499	3156 20 6		434
342 M6X25 G	M6 x 2525/ St / G	5255550	3156 25 7		434
342 M6X30 G	M6 x 3030/ St / G	5255611	3156 30 3		434
342 M6X35 G	M6 x 3535/ St / G	5255673	3156 35 4		434
342 M6X40 G	M6 x 4040/ St / G	5255734	3156 40 0		434
342 M8X20 G	M8 x 2020/ St / G	5256212	3158 20 9		434
342 M8X25 G	M8 x 2525/ St / G	5256274	3158 24 1		434
342 M8X30 G	M8 x 3030/ St / G	5256335	3158 30 6		434
342 M8X40 G	M8 x 4040/ St / G	5256458	3158 40 3		434
342 M8X50 G	M8 x 5050/ St / G	5256519	3158 50 0		434
362 16 BK	162/ St	5291374	3353 16 8		420
362 18 BK	182/ St	5291435	3353 18 4		420
362 23 BK	232/ St	5291497	3353 23 0		420
362 30 BK	302/ St	5291558	3353 30 3		420
362 40 BK	402/ St	5291619	3353 40 0		420
362 50 BK	502/ St	5291671	3353 50 8		420
362 60 BK	602/ St	5291732	3353 60 5		420
362 Z 16 G	162/ St / G	5291916	3354 16 4		420
362 Z 18 G	182/ St / G	5291978	3354 18 0		420
362 Z 23 G	232/ St / G	5292036	3354 23 7		420
362 Z 30 G	302/ St / G	5292098	3354 29 6		420
362 Z 40 G	402/ St / G	5292159	3354 40 7		420
362 Z 50 G	502/ St / G	5292210	3354 50 4		420
362 Z 60 G	602/ St / G	5292272	3354 60 1		420
450 M4x95 G	M495/ St / G	5442936	3481 61 1		425
451 M4x95 G	M495/ St / G	5432852	3481 66 2		425
452 M4x70 G	M470/ St / G	5432975	3481 77 8		425
453 M6x100 G	M6100/ St / G	5310631	3482 01 4		425
454 M6x100 G	M6100/ St / G	5310693	3482 03 0		425
455 M5x100 G	M5100/ St / G	5310815	3482 07 3		425
455 M5x65 G	M565/ St / G	5310754	3482 05 7		425
456 M5x100 G	M5100/ St / G	5310877	3482 10 3		425
457 M4x55 G	M455/ St / G	5310938	3482 13 8		425
458 M4x100 G	M4100/ St / G	5310990	3482 15 4		425
				/100 pc.	
500 12	122/ St	5292999	3360 12 1		420
500 16	162/ St	5293118	3360 16 4		420
500 18	182/ St	5293170	3360 18 0		420
500 23	232/ St	5293231	3360 23 7		420
500 30	302/ St	5293293	3360 29 6		420
500 40	402/ St	5293354	3360 40 7		420
500 50	502/ St	5293415	3360 50 4		420
500 60	602/ St	5293477	3360 60 1		420
500 Z 12	122/ St / G	5293651	3361 12 8		420
500 Z 16	162/ St / G	5293774	3361 16 0		420
500 Z 18	182/ St / G	5293835	3361 18 7		420
500 Z 23	232/ St / G	5293897	3361 23 3		420
500 Z 30	302/ St / G	5293958	3361 30 6		420
500 Z 40	402/ St / G	5294078	3361 40 3		420
500 Z 50	502/ St / G	5294139	3361 50 0		420
500 Z 60	602/ St / G	5294191	3361 60 8		420
507	Light grey 100/ PS	5225911	2327 10 4		284
				/pc.	
508		5228196	2341 10 7		316
509		5228073	2341 01 8		316
				/100 pc.	
510	Light grey/ PS	5221173	2236 02 8		316
511 12	122/ St	5294313	3366 11 1		421
511 16	162/ St	5294436	3366 16 2		421
511 18	182/ St	5294498	3366 18 9		421
511 23	232/ St	5294559	3366 23 5		421
511 30	302/ St	5294610	3366 30 8		421
511 40	402/ St	5294733	3366 40 5		421
511 50	502/ St	5294795	3366 50 2		421
511 60	602/ St	5294856	3366 59 6		421
511 Z 12	122/ St / G	5294917	3367 12 6		421
511 Z 16	162/ St / G	5295037	3367 16 9		421
511 Z 18	182/ St / G	5295099	3367 18 5		421
511 Z 23	232/ St / G	5295150	3367 23 1		421
511 Z 30	302/ St / G	5295211	3367 30 4		421
511 Z 40	402/ St / G	5295334	3367 40 1		421
550 6X180 SW	6 x 18045/ PA	5454991	2330 05 9		313
550 6X290 SW	6 x 29078/ PA	5455059	2330 07 5		313
550 6X360 SW	6 x 360100/ PA	5455110	2330 09 1		313
550 9X180 SW	9 x 18040/ PA	5455417	2330 22 9		313
550 9X265 SW	9 x 26065/ PA	5455479	2330 24 5		313
550 9X360 SW	9 x 36093/ PA	5455592	2330 29 6		313
550 9X510 SW	9 x 510140/ PA	5455653	2330 32 6		313
550 9X760 SW	9 x 760220/ PA	5455714	2330 34 2		313
555 2.4x75 WS	2.4 x 7515/ PA	5226994	2332 02 7		312
555 2.5x100 SW	2.5 x 10018/ PA	5819851	2332 62 0		312
555 2.5x100 SWUV	2.5 x 10018/ PA	5896869	2332 76 0		312
555 2.5x100 WS	2.5 x 10018/ PA	5227052	2332 05 1		312
555 2.5x165 WS	2.5 x 16540/ PA	5227113	2332 09 4		312
555 2.5x200 WS	2.5 x 20050/ PA	5227175	2332 10 8		312
555 3.6x150 SW	3.6 x 14035/ PA	5819912	2332 65 5		312
555 3.6x150 SWUV	3.6 x 14035/ PA	5896876	2332 76 4		312
555 3.6x150 WS	3.6 x 14035/ PA	5227236	2332 17 5		312
555 3.6x200 SW	3.6 x 20050/ PA	5819974	2332 66 3		312
555 3.6x200 SWUV	3.6 x 20050/ PA	5896883	2332 76 8		312
555 3.6x200 WS	3.6 x 20050/ PA	5227298	2332 18 3		312
555 3.6x290 WS	3.6 x 29076/ PA	5227359	2332 21 3		312
555 4.8x200 SW	4.8 x 20047/ PA	5820031	2332 69 8		312
555 4.8x200 SWUV	4.8 x 20047/ PA	5896890	2332 77 2		312
555 4.8x200 WS	4.8 x 20047/ PA	5227410	2332 33 7		312
555 4.8x310 SW	4.8 x 30076/ PA	5820093	2332 70 1		312
555 4.8x310 SWUV	4.8 x 30076/ PA	5896906	2332 77 6		312
555 4.8x310 WS	4.8 x 30076/ PA	5227472	2332 36 1		312
555 4.8x370 SW	4.8 x 370102/ PA	5820154	2332 72 8		312
555 4.8x370 SWUV	4.8 x 370102/ PA	5896913	2332 78 0		312
555 4.8x370 WS	4.8 x 370102/ PA	5227533	2332 38 8		312
555 7.6x200 WS	7.6 x 20050/ PA	5227595	2332 50 7		312
555 7.6x300 WS	7.6 x 30076/ PA	5227656	2332 55 8		312
555 7.6x380 SW	7.6 x 380102/ PA	5820215	2332 75 2		312
555 7.6x380 SWUV	7.6 x 380102/ PA	5896920	2332 78 4		312
555 7.6x380 WS	7.6 x 380102/ PA	5227717	2332 57 4		312
574 03 30 BA	17 x 1.0300/ V2A	6209538	6490 10 7		314
574 03 45 BA	17 x 1.0450/ V2A	6209590	6490 12 3		314
				/100 m	
574 03 BA	17 x 1.02,25/ V2A	6209415	6490 03 4		313
				/100 pc.	
574 05 55 GNBG	16.5 x 1.2550/ V2A	6209651	6490 15 8		314
574 05 65 GNBG	16.5 x 1.2650/ V2A	6209712	6490 17 4		314

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Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 m	
574 05 GNBG	16.5 x 1.2 3,5/ V2A	6209477	6490 05 0		313
574 G STGR	17 x 1.0 1,35/ St / G	6209354	6490 01 8		313
				/pc.	
575	/ St	6209897	6498 01 9		314
576	/ St	6209958	6498 02 7		314
				/100 pc.	
604 10 G	10 4800/ St / G	5001218	1003 10 0		300
604 11 G	11 4800/ St / G	5001270	1003 11 9		300
604 12 G	12 5000/ St / G	5001331	1003 12 7		300
604 13 G	13 5000/ St / G	5001393	1003 13 5		300
604 16 G	16 3900/ St / G	5001454	1003 17 8		300
604 19 G	19 1800/ St / G	5001515	1003 19 4		300
604 20 G	20 1800/ St / G	5001577	1003 20 8		300
604 21 G	21 3000/ St / G	5001638	1003 21 6		300
604 23 G	23 2400/ St / G	5001690	1003 23 2		300
604 25 G	25 1000/ St / G	5566892	1003 25 9		300
604 28 G	28 1000/ St / G	5001751	1003 28 3		300
604 2X16	2 x 16 1000/ St / G	5002833	1004 16 6		304
604 2X19	2 x 19 1000/ St / G	5002895	1004 19 0		304
604 2X21	2 x 21 1000/ St / G	5003014	1004 21 2		304
604 2X28	2 x 28 600/ St / G	5003137	1004 29 8		304
604 3 G	3 12000/ St / G	5000792	1003 03 8		300
604 32 G	32 800/ St / G	5566953	1003 32 1		300
604 35 G	35 800/ St / G	5001812	1003 35 6		300
604 37 G	37 800/ St / G	5001874	1003 37 2		300
604 4 G	4 12000/ St / G	5000853	1003 04 6		300
604 40 G	40 1200/ St / G	5001935	1003 40 2		300
604 47 G	47 500/ St / G	5002055	1003 46 1		300
604 5 G	5 5000/ St / G	5000914	1003 05 4		300
604 6 G	6 5000/ St / G	5000976	1003 06 2		300
604 7 G	7 5000/ St / G	5001034	1003 07 0		300
604 8 G	8 5000/ St / G	5001096	1003 08 9		300
604 9 G	9 5000/ St / G	5001157	1003 09 7		300
605 10 G	10 4,5 x 6/ St / G	5016458	1018 10 8		305
605 11 G	11 4,5 x 6/ St / G	5016519	1018 11 6		305
605 12 G	12 4,5 x 6/ St / G	5016571	1018 12 4		305
605 12 V4A	12 4,5 x 6/ V4A	5912002	1018 65 3		306
605 13 G	13 4,5 x 6/ St / G	5016632	1018 13 2		305
605 14 G	14 4,5 x 6/ St / G	5016694	1018 14 0		305
605 15 G	15 4,5 x 6/ St / G	5016755	1018 15 9		305
605 16 ALU	16 4,5 x 6/ Al	5449539	1017 79 9		306
605 16 G	16 4,5 x 6/ St / G	5016816	1018 16 7		305
605 16 V4A	16 4,5 x 6/ V4A	5912064	1018 66 1		306
605 17 G	17 4,5 x 6/ St / G	5016878	1018 17 5		305
605 18 G	18 4,5 x 6/ St / G	5016939	1018 18 3		305
605 19 G	19 4,5 x 6/ St / G	5016991	1018 19 1		305
605 20 ALU	20 4,5 x 6/ Al	5449652	1017 83 7		306
605 20 G	20 4,5 x 6/ St / G	5017059	1018 20 5		305
605 20 V4A	20 4,5 x 6/ V4A	5912101	1018 66 9		306
605 21 G	21 4,5 x 6/ St / G	5017110	1018 21 3		305
605 23 G	23 4,5 x 6/ St / G	5017172	1018 22 1		305
605 25 ALU	25 4,5 x 6/ Al	5449836	1017 86 1		306
605 25 G	25 4,5 x 6/ St / G	5017233	1018 25 6		305
605 25 V4A	25 4,5 x 6/ V4A	5912132	1018 67 9		306
605 26 G	26 4,5 x 6/ St / G	5017295	1018 26 4		305
605 28 G	28 4,5 x 6/ St / G	5017356	1018 28 0		305
605 30 G	30 4,5 x 6/ St / G	5017417	1018 30 2		305
605 32 ALU	32 4,5 x 6/ Al	5590170	1017 92 6		306
605 32 G	32 4,5 x 6/ St / G	5017479	1018 33 7		305
605 32 V4A	32 4,5 x 6/ V4A	5912170	1018 69 3		306
605 35 G	35 5,5 x 7/ St / G	5017530	1018 35 3		305
605 37 G	37 5,5 x 7/ St / G	5017592	1018 36 1		305
605 40 ALU	40 5,5 x 7/ Al	5450016	1017 95 0		306
605 40 G	40 5,5 x 7/ St / G	5017653	1018 39 6		305
605 40 V4A	40 5,5 x 7/ V4A	5912231	1018 70 5		306
605 43 G	43 5,5 x 7/ St / G	5017714	1018 43 4		305
605 47 G	47 5,5 x 7/ St / G	5017776	1018 47 7		305
605 50 ALU	50 5,5 x 7/ Al	5589938	1017 98 0		306
605 50 G	50 5,5 x 7/ St / G	5568339	1018 50 7		305
605 50 V4A	50 5,5 x 7/ V4A	5906476	1018 71 7		306
605 55 G	55 5,5 x 7/ St / G	5017837	1018 55 8		305
605 60 G	60 5,5 x 7/ St / G	5017899	1018 60 4		305
605 63 ALU	63 5,5 x 7/ Al	5590057	1017 99 7		306
605 63 G	63 5,5 x 7/ St / G	5568513	1018 63 9		305
605 63 V4A	63 5,5 x 7/ V4A	5906506	1018 72 9		306
605 7 G	7 4,5 x 6/ St / G	5016274	1018 07 8		305
605 8 G	8 4,5 x 6/ St / G	5016335	1018 08 6		305
605 9 G	9 4,5 x 6/ St / G	5016397	1018 09 4		305
689	Light grey/ PA	5159377	2017 34 2		163
700 6	/ MF	5159254	2017 29 6	/100 pc.	187
716 3X50 BK	50 3/ St	5289272	3347 05 2		421
716 3X60 BK	60 3/ St	5289333	3347 06 0		421
716 3X70 BK	70 3/ St	5289395	3347 07 9		421
731 W 12 CU	8-12 M5 x 12/ St / Cu	5118275	1366 62 9		296
731 W 12 G	8-12 M5 x 12/ St / G	5117919	1366 12 2		296
731 W 16 CU	12-16 M5 x 14/ St / Cu	5118336	1366 66 1		296
731 W 16 G	12-16 M5 x 12/ St / G	5117971	1366 16 5		296
731 W 20 G	16-20 M5 x 14/ St / G	5118039	1366 20 3		296
731 W 25 G	20-25 M5 x 14/ St / G	5118091	1366 25 4		296
731 W 30 G	25-30 M5 x 14/ St / G	5118152	1366 30 0		296
731 W 35 G	30-35 M5 x 18/ St / G	5118213	1366 35 1		296
732 10 GTP	9-10 M6/ St / GTP	5114611	1360 10 8		292
732 10 V4A	9-10 M6/ V4A	5912392	1360 64 8		293
732 12 GTP	10,5-12 M6/ St / GTP	5114673	1360 12 4		292
732 12 V4A	10,5-12 M6/ V4A	5912408	1360 65 0		293
732 14 GTP	12,5-14 M6/ St / GTP	5114734	1360 14 0		292
732 14 V4A	12,5-14 M6/ V4A	5912415	1360 65 2		293
732 15 GTP	13,5-15 M6/ St / GTP	5114796	1360 15 9		292
732 15 V4A	13,5-15 M6/ V4A	5912422	1360 65 4		293
732 16 GTP	14,5-16 M6/ St / GTP	5114857	1360 16 7		292
732 16 V4A	14,5-16 M6/ V4A	5912439	1360 65 6		293
732 18 GTP	16,5-18 M6/ St / GTP	5114918	1360 18 3		292
732 18 V4A	16,5-18 M6/ V4A	5912446	1360 65 8		293
732 20 GTP	18,5-20 M6/ St / GTP	5114970	1360 20 5		292
732 20 V4A	18,5-20 M6/ V4A	5912453	1360 66 0		293
732 22 GTP	20-22 M6/ St / GTP	5115038	1360 22 1		292
732 22 V4A	20-22 M6/ V4A	5912460	1360 66 2		293
732 24 GTP	22-24 M6/ St / GTP	5115090	1360 24 8		292
732 24 V4A	22-24 M6/ V4A	5912477	1360 66 4		293
732 26 GTP	24-26 M6/ St / GTP	5115151	1360 26 4		292
732 26 V4A	24-26 M6/ V4A	5912484	1360 66 6		293
732 28 GTP	26-28 M6/ St / GTP	5115212	1360 28 0		292
732 28 V4A	26-28 M6/ V4A	5912491	1360 66 8		293
732 30 GTP	28-30 M6/ St / GTP	5115274	1360 30 2		292
732 30 V4A	28-30 M6/ V4A	5912507	1360 67 0		293
732 33 GTP	31-33 M6/ St / GTP	5115335	1360 33 7		292
732 33 V4A	31-33 M6/ V4A	5912514	1360 67 2		293
732 35 GTP	33-35 M6/ St / GTP	5115397	1360 35 3		292
732 35 V4A	33-35 M6/ V4A	5912521	1360 67 4		293
732 38 GTP	36-38 M6/ St / GTP	5115458	1360 38 8		292
732 38 V4A	36-38 M6/ V4A	5912538	1360 67 6		293
732 40 GTP	38-40 M6/ St / GTP	5115519	1360 39 6		292
732 40 V4A	38-40 M6/ V4A	5912545	1360 67 8		293
732 42 GTP	40-42 M6/ St / GTP	5115571	1360 42 6		292
732 42 V4A	40-42 M6/ V4A	5912583	1360 68 0		293
732 45 GTP	43-45 M6/ St / GTP	5115632	1360 45 0		292
732 45 V4A	43-45 M6/ V4A	5912590	1360 68 2		293
732 48 GTP	46-48 M6/ St / GTP	5115694	1360 48 5		292
732 48 V4A	46-48 M6/ V4A	5912606	1360 68 4		293
732 50 GTP	48-50 M6/ St / GTP	5115755	1360 50 7		292
732 50 V4A	48-50 M6/ V4A	5912637	1360 68 6		293
732 6 GTP	5-6 M6/ St / GTP	5114499	1360 05 1		292
732 6 V4A	5-6 M6/ V4A	5912378	1360 64 4		293
732 60 GTP	58-60 M6/ St / GTP	5115878	1360 60 4		292
732 60 V4A	58-60 M6/ V4A	5912644	1360 68 8		293
732 63 GTP	61-63 M6/ St / GTP	5569114	1360 63 9		292
732 63 V4A	61-63 M6/ V4A	5912651	1360 69 0		293
732 8 GTP	7-8 M6/ St / GTP	5114550	1360 08 6		292
732 8 V4A	7-8 M6/ V4A	5912385	1360 64 6		293
733 13 FT	11-13 6,5 x 10/ St / FT	5029755	1361 09 1		294
733 13 G	11-13 6,5 x 10/ St / G	5115939	1361 13 9		294
733 13 V4A	11-13 6,5 x 10/ V4A	5912668	1361 64 3		296
733 16 ALU	14-16 6,5 x 10/ Al	5450252	1362 52 6		295
733 16 FT	14-16 6,5 x 10/ St / FT	5029762	1361 09 4		294
733 16 G	14-16 6,5 x 10/ St / G	5115991	1361 16 3		294
733 16 V4A	14-16 6,5 x 10/ V4A	5912705	1361 64 7		296
733 16 VA	14-16 6,5 x 10/ V2A	5116714	1362 01 1		295
733 19 ALU	17-19 6,5 x 10/ Al	5450313	1362 53 4		295
733 19 FT	17-19 6,5 x 10/ St / FT	5029809	1361 09 7		294
733 19 G	17-19 6,5 x 10/ St / G	5116059	1361 19 8		294
733 19 V4A	17-19 6,5 x 10/ V4A	5912712	1361 65 1		296
733 19 VA	17-19 6,5 x 10/ V2A	5116776	1362 03 8		295
733 21 ALU	19-21 6,5 x 10/ Al	5450375	1362 54 2		295
733 21 FT	19-21 6,5 x 10/ St / FT	5029816	1361 10 0		294
733 21 G	19-21 6,5 x 10/ St / G	5116110	1361 20 1		294
733 21 V4A	19-21 6,5 x 10/ V4A	5912729	1361 65 5		296
733 21 VA	19-21 6,5 x 10/ V2A	5116837	1362 04 6		295
733 23 FT	21-23 6,5 x 10/ St / FT	5029823	1361 10 3		294
733 23 G	21-23 6,5 x 10/ St / G	5116172	1361 23 6		294
733 23 V4A	21-23 6,5 x 10/ V4A	5912750	1361 65 9		296
733 23 VA	21-23 6,5 x 10/ V2A	5116899	1362 05 4		295

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Always indicate the item number when ordering.

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
733 29 ALU	24-29 6,5 x 10/ Al	5450498	1362 56 9		295
733 29 FT	24-29 6,5 x 10/ St / FT	5029861	1361 10 6		294
733 29 G	24-29 6,5 x 10/ St / G	5116233	1361 29 5		294
733 29 V4A	24-29 6,5 x 10/ V4A	5912767	1361 66 3		296
733 29 VA	24-29 6,5 x 10/ V2A	5116950	1362 06 2		295
733 38 ALU	30-38 6,5 x 10/ Al	5450559	1362 57 7		295
733 38 FT	30-38 6,5 x 10/ St / FT	5029878	1361 10 9		294
733 38 G	30-38 6,5 x 10/ St / G	5116295	1361 38 4		294
733 38 V4A	30-38 6,5 x 10/ V4A	5912774	1361 66 7		296
733 38 VA	30-38 6,5 x 10/ V2A	5117018	1362 07 0		295
733 48 ALU	39-48 6,5 x 10/ Al	5450610	1362 58 5		295
733 48 FT	39-48 6,5 x 10/ St / FT	5029885	1361 11 2		294
733 48 G	39-48 6,5 x 10/ St / G	5116356	1361 48 1		294
733 48 V4A	39-48 6,5 x 10/ V4A	5912781	1361 67 1		296
733 48 VA	39-48 6,5 x 10/ V2A	5117070	1362 08 9		295
733 54 ALU	48-54 6,5 x 14/ Al	5450672	1362 59 3		295
733 54 FT	48-54 6,5 x 10/ St / FT	5615651	1361 11 7		294
733 54 G	48-54 6,5 x 14/ St / G	5116417	1361 51 1		294
733 54 V4A	48-54 6,5 x 10/ V4A	5912828	1361 67 5		296
733 54 VA	48-54 6,5 x 14/ V2A	5117131	1362 09 7		295
733 61 FT	53-61 6,5 x 10/ St / FT	5254348	1361 11 5		294
733 61 G	53-61 6,5 x 14/ St / G	5116479	1361 61 9		294
733 61 V4A	53-61 6,5 x 10/ V4A	5912835	1361 67 9		296
733 61 VA	53-61 6,5 x 14/ V2A	5117193	1362 10 0		295
733 63 ALU	63-63 8 x 18/ Al	5590293	1362 61 5		295
733 63 FT	63-63 6,5 x 10/ St / FT	5254386	1361 11 8		294
733 63 G	63-63 8 x 18/ St / G	5116530	1361 63 5		294
733 63 V4A	63-63 6,5 x 10/ V4A	5912842	1361 68 3		296
733 63 VA	63-63 8 x 18/ V2A	5117254	1362 12 7		295
822 10 FT	10/ St / FT	5013693	1014 01 3		302
822 10 V4A	10/ V4A	5911753	1013 86 5		303
822 12 FT	12 M12/ St / FT	5013754	1014 02 1		302
822 12 V4A	12 M12/ V4A	5911760	1013 86 9		303
822 14 FT	14/ St / FT	5013815	1014 04 8		302
822 14 V4A	14/ V4A	5911807	1013 87 3		303
822 16 FT	15,2 M16/ St / FT	5013877	1014 09 9		302
822 16 V4A	15,2 M16/ V4A	5911814	1013 87 7		303
822 18 FT	18,6 PG11/ St / FT	5013938	1014 11 0		302
822 18 V4A	18,6 PG11/ V4A	5911821	1013 88 1		303
822 20 FT	20 M20/ St / FT	5013990	1014 13 7		302
822 20 V4A	20 M20/ V4A	5911838	1013 88 5		303
822 22.5 FT	22,5 PG16/ St / FT	5014058	1014 16 1		302
822 22.5 V4A	22,5 PG16/ V4A	5911845	1013 88 9		303
822 25 FT	25 M25/ St / FT	5567011	1014 50 1		302
822 25 V4A	25 M25/ V4A	5911852	1013 89 3		303
822 28.3 FT	28,3 PG21/ St / FT	5014119	1014 21 8		302
822 28.3 V4A	28,3 PG21/ V4A	5911869	1013 89 7		303
822 32 FT	32 M32/ St / FT	5567073	1014 52 8		302
822 32 V4A	32 M32/ V4A	5911876	1013 90 3		303
822 37 FT	37 PG29/ St / FT	5014171	1014 29 3		302
822 37 V4A	37 PG29/ V4A	5911883	1013 90 7		303
822 40 FT	40 M40/ St / FT	5567134	1014 53 6		302
822 40 V4A	40 M40/ V4A	5911890	1013 91 1		303
822 47 FT	47 PG36/ St / FT	5014232	1014 36 6		302
822 47 V4A	47 PG36/ V4A	5911906	1013 91 7		303
822 50 FT	50 M50/ St / FT	5567493	1014 54 4		302
822 50 V4A	50 M50/ V4A	5911913	1013 92 1		303
822 6 FT	6/ St / FT	5013631	1014 00 5		302
822 6 V4A	6/ V4A	5911746	1013 86 1		303
822 63 FT	63 M63/ St / FT	5567554	1014 55 2		302
822 63 V4A	63 M63/ V4A	5911920	1013 92 5		303
823 16 FT	16 6,5 x 10/ St / FT	5015130	1015 09 5		307
823 18.3 FT	18,6 6,5 x 10/ St / FT	5015192	1015 11 7		307
823 20 FT	20 6,5 x 10/ St / FT	5015253	1015 13 3		307
823 22.5 FT	22,5 6,5 x 10/ St / FT	5015314	1015 16 8		307
823 25 FT	25 6,5 x 10/ St / FT	5567615	1015 49 4		307
823 28.3 FT	28,3 6,5 x 10/ St / FT	5015376	1015 21 4		307
823 32 FT	32 6,5 x 10/ St / FT	5567738	1015 49 6		307
823 37 FT	37 6,5 x 10/ St / FT	5015437	1015 30 3		307
823 40 FT	40 6,5 x 10/ St / FT	5567790	1015 49 8		307
823 47 FT	47 6,5 x 10/ St / FT	5015499	1015 36 2		307
823 50 FT	50 6,5 x 10/ St / FT	5567851	1015 50 0		307
823 54 FT	54 6,5 x 10/ St / FT	5015550	1015 42 7		307
823 59.3 FT	59,3 6,5 x 10/ St / FT	5015611	1015 48 6		307
823 63 FT	63 6,5 x 10/ St / FT	5567912	1015 50 8		307
865 M10x34	M10 53/ CuZn	5311294	3483 09 6		424
865 M6x24	M6 32/ CuZn	5311171	3483 06 1		424
865 M8x30	M8 41/ CuZn	5311232	3483 08 8		424
867 M5X125 G	M5 125/ St / G	5309253	3470 14 8		429
867 M6X 95 G	M6 95/ St / G	5309314	3470 21 0		429
867 M6X125 G	M6 125/ St / G	5309376	3470 23 7		429

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
869 M8X40 G	M8 70/ St / G	5309550	3472 08 6		430
903 15 G	15 23/ St / G	5245773	3100 15 4		422
903 18 G	18 26/ St / G	5245834	3100 18 9		422
903 25 G	25 33/ St / G	5245896	3100 25 1		422
903 30 G	30 38/ St / G	5245957	3100 30 8		422
903 40 G	40 48/ St / G	5246015	3100 40 5		422
903 55 G	55 63/ St / G	5246077	3100 55 3		422
903 RB 15	15 21/ St	5851059	3105 01 6		422
903 RB 18	18 24/ St	5851110	3105 02 4		422
903 RB 22	22 30/ St	5851172	3105 03 2		422
904 A 15 FS	15 22/ St / G	5247753	3116 15 8		422
904 B 15 FS	15 26/ St / G	5248170	3117 15 4		422
904 B 18 FS	18 29/ St / G	5248231	3117 18 9		422
910 DF 6x35	6 35/ PA	5448099	2347 40 7		424
910 GD 6x35	6 35/ PA	5828198	2347 22 9		424
910 GD 8x50	8 50/ PA	5828259	2347 26 1		424
910 GKDM 12x30	12 30/ Zn	5418191	3483 21 4		424
910 GKSM 6x25	7,5 26,4/ Zn	5418207	3483 23 9		424
910 MZ 10x60	10 60/ PA	5084990	2347 55 5		423
910 MZ 12x70	12 70/ PA	5625667	2347 57 0		423
910 MZ 5x30	5 30/ PA	5625650	2347 52 3		423
910 MZ 6x35	6 35/ PA	5228738	2347 53 9		423
910 MZ 8x50	8 50/ PA	5084969	2347 54 7		423
910 N 10x50 GRW	10 50/ PA	5229155	2349 10 8		423
910 N 12x60 GRW	12 60/ PA	5229216	2349 12 4		423
910 N 5x25 GRW	5 25/ PA	5228851	2349 04 3		423
910 N 6x30 GRW	6 30/ PA	5228912	2349 05 1		423
910 N 6x60 GRW	6 60/ PA	5228974	2349 07 8		423
910 N 8x40 GRW	8 40/ PA	5229032	2349 08 6		423
910 SD 5X35	5 35/ PA	5229452	2351 02 1		423
910 SD 6X35	6 35/ PA	5669197	2351 05 6		275
910 SD 6X35	6 35/ PA	5669197	2351 05 6		423
910 SD 6X40	6 40/ PA	5229513	2351 06 4		275
910 SD 6X40	6 40/ PA	5229513	2351 06 4		423
910 SD 8X55	8 55/ PA	5229575	2351 09 9		423
910 SDM M6	M6 6/ PA	5874454	2350 80 7		423
910 SD-Q 6x40	6 40/ PA	5229636	2351 21 8		423
910 STK 6x30	3 5/ PA	5708971	2351 60 9		272
910 STP 6x30	6 30/ PA	5242352	2351 41 2		272
910 STQS 6x26	6 26/ ABS/ASA	5931935	2351 65 0		272
915 3.9x100 G	3,9 100/ St / G	5304630	3450 10 4		429
915 3.9x50 G	3,9 50/ St / G	5304333	3450 05 8		429
915 3.9x60 G	3,9 60/ St / G	5304395	3450 06 6		429
915 3.9x70 G	3,9 70/ St / G	5304456	3450 07 4		429
915 3.9x80 G	3,9 80/ St / G	5304517	3450 08 2		429
915 3.9x90 G	3,9 90/ St / G	5304579	3450 09 0		429
915 4.3x120 G	4,3 120/ St / G	5304692	3450 12 0		429
				/pc.	
915 RBS M4	12/ St	5851417	3031 50 0		422
915 S M6	13 5 14/ St	5241690	3031 01 2		422
				/100 pc.	
933 M10x20 V4A	M10 x 20 20/ V4A	5940548	3156 03 1		385
933 M10x20 V4A	M10 x 20 20/ V4A	5940548	3156 03 1		434
933 M10x30 V4A	M10 x 30 30/ V4A	5940555	3156 03 2		385
933 M10x30 V4A	M10 x 30 30/ V4A	5940555	3156 03 2		434
933 M10x40 V4A	M10 x 40 40/ V4A	5940562	3156 03 3		385
933 M10x40 V4A	M10 x 40 40/ V4A	5940562	3156 03 3		434
933 M10x50 V4A	M10 x 50 50/ V4A	5940609	3156 03 4		385
933 M10x50 V4A	M10 x 50 50/ V4A	5940609	3156 03 4		434
933 M10x60 V4A	M10 x 60 60/ V4A	5940616	3156 03 5		385
933 M10x60 V4A	M10 x 60 60/ V4A	5940616	3156 03 5		434
933 M12x30 V4A	M12 x 30 30/ V4A	5940623	3156 03 6		385
933 M12x30 V4A	M12 x 30 30/ V4A	5940623	3156 03 6		434
933 M12x40 V4A	M12 x 40 40/ V4A	5891994	3156 02 9		385
933 M12x40 V4A	M12 x 40 40/ V4A	5891994	3156 02 9		434
933 M12x50 V4A	M12 x 50 50/ V4A	5940661	3156 03 7		385
933 M12x50 V4A	M12 x 50 50/ V4A	5940661	3156 03 7		434
933 M6x16 V4A	M6 x 16 16/ V4A	5940371	3156 01 6		434
933 M6x20 V4A	M6 x 20 20/ V4A	5940388	3156 01 8		434
933 M6x25 V4A	M6 x 25 25/ V4A	5940395	3156 01 9		434
933 M6x30 V4A	M6 x 30 30/ V4A	5940401	3156 02 0		434
933 M6x35 V4A	M6 x 35 35/ V4A	5940418	3156 02 1		434
933 M6x40 V4A	M6 x 40 40/ V4A	5940425	3156 02 2		434
933 M8x20 V4A	M8 x 20 20/ V4A	5940432	3156 02 4		434
933 M8x25 V4A	M8 x 25 25/ V4A	5940449	3156 02 5		434
933 M8x30 V4A	M8 x 30 30/ V4A	5940487	3156 02 6		434
933 M8x40 V4A	M8 x 40 40/ V4A	5940494	3156 02 7		434
933 M8x50 V4A	M8 x 50 50/ V4A	5940500	3156 02 8		434

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Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
934 CKB4,5NUT8	40 x 16 x 20 Black/ PA	5859406	1124 49 0		284
935 CKB4,5NUT8	39 x 16 x 20 Black/ PA	5859413	1124 49 2		284
945 M10 G	M10 14/ St / G	5413592	5300 05 3		317
945 M10 V4A	M10 14/ V4A	5901181	5300 12 4		317
945 M12 G	M12 16/ St / G	5413653	5300 06 1		317
945 M12 V4A	M12 16/ V4A	5901198	5300 12 7		317
945 M16 G	M16 22/ St / G	5413714	5300 08 8		317
945 M16 V4A	M16 22/ V4A	5901204	5300 13 2		317
945 M6 G	M6 9/ St / G	5413530	5300 03 7		317
945 M6 V4A	M6 9/ V4A	5901174	5300 12 0		317
946 10 FT	10 43/ St / FT	5414315	5301 10 6		317
946 10 V4A	10 43/ V4A	5901105	5301 18 4		318
946 3 G	3 21,5/ St / G	5413950	5301 03 3		317
946 3 V4A	3 21,5/ V4A	5901020	5301 17 0		318
946 4 G	4 26,5/ St / G	5414018	5301 04 1		317
946 4 V4A	4 26,5/ V4A	5901068	5301 17 2		318
946 5 G	5 28,5/ St / G	5413899	5301 00 9		317
946 5 V4A	5 28,5/ V4A	5901075	5301 17 4		318
946 6 G	6 30/ St / G	5414070	5301 06 8		317
946 6 V4A	6 30/ V4A	5901082	5301 17 6		318
946 8 G	8 35/ St / G	5414193	5301 08 4		317
946 8 V4A	8 35/ V4A	5901099	5301 18 0		318
947 10 F	10 42/ TG / F	5414797	5302 10 2		319
947 10 V4A	10 42/ V4A	5901389	5302 18 8		319
947 3 F	3 20/ TG / F	5414551	5302 02 1		319
947 3 V4A	3 20/ V4A	5901327	5302 17 0		319
947 5 F	5 24/ TG / F	5414612	5302 05 6		319
947 5 V4A	5 24/ V4A	5901358	5302 17 4		319
947 6 F	6 28/ TG / F	5414674	5302 06 4		319
947 6 V4A	6 28/ V4A	5901365	5302 17 8		319
947 8 F	8 34/ TG / F	5414735	5302 08 0		319
947 8 V4A	8 34/ V4A	5901372	5302 18 2		319
948 TG6	M6 6/ ST / G	5513315	3453 82 0		429
				/100 m	
957 10 G	10 54,4/ St / G	5415336	5303 26 5		317
957 10 V4A	10 54,4/ V4A	5900764	5303 19 7		317
957 2 G	2 2,35/ St / G	5464273	5303 20 2		317
957 2 V4A	2 2,35/ V4A	5900658	5303 17 9		317
957 3 G	3 5,29/ St / G	5414971	5303 20 6		317
957 3 V4A	3 5,29/ V4A	5900665	5303 18 2		317
957 4 G	4 9,41/ St / G	5415039	5303 21 4		317
957 4 V4A	4 9,41/ V4A	5900696	5303 18 5		317
957 5 G	5 14,7/ St / G	5415091	5303 22 2		317
957 5 V4A	5 14,7/ V4A	5900702	5303 18 8		317
957 6 G	6 21,1/ St / G	5415152	5303 23 0		317
957 6 V4A	6 21,1/ V4A	5900719	5303 19 1		317
957 8 G	8 34,8/ St / G	5415275	5303 25 7		317
957 8 V4A	8 34,8/ V4A	5900726	5303 19 4		317
				/100 pc.	
964 M10 G30 G	M10 10,5/ ST / G	5868330	3403 16 5		387
964 M10 G30 G	M10 10,5/ ST / G	5868330	3403 16 5		436
964 M10 G30 V2A	M10 10,5/ V2A	5944393	3403 15 5		387
964 M10 G30 V2A	M10 10,5/ V2A	5944393	3403 15 5		437
964 M10 G30 V4A	M10 10,5/ V4A	5944454	3403 16 3		388
964 M10 G30 V4A	M10 10,5/ V4A	5944454	3403 16 3		437
964 M10 G40 V2A	M10 10,5/ V2A	5946298	3403 17 5		387
964 M10 G40 V2A	M10 10,5/ V2A	5946298	3403 17 5		437
964 M10 G40 V4A	M10 10,5/ V4A	5946304	3403 17 7		388
964 M10 G40 V4A	M10 10,5/ V4A	5946304	3403 17 7		437
964 M4 G15 G	M4 4,3/ ST / G	5867913	3403 02 5		436
964 M5 G20 G	M5 5,3/ ST / G	5867975	3403 04 1		436
964 M6 G20 G	M6 6,4/ ST / G	5868033	3403 07 6		436
964 M6 G25 G	M6 6,4/ ST / G	5868095	3403 08 4		436
964 M6 G30 G	M6 6,4/ ST / G	5868156	3403 09 2		436
964 M8 G20 G	M8 8,4/ ST / G	5868217	3403 12 2		387
964 M8 G20 G	M8 8,4/ ST / G	5868217	3403 12 2		436
964 M8 G20 V2A	M8 8,4/ V2A	5944348	3403 12 5		387
964 M8 G20 V2A	M8 8,4/ V2A	5944348	3403 12 5		437
964 M8 G20 V4A	M8 8,4/ V4A	5944409	3403 12 7		388
964 M8 G20 V4A	M8 8,4/ V4A	5944409	3403 12 7		437
964 M8 G25 G	M8 8,4/ ST / G	5868279	3403 13 0		387
964 M8 G25 G	M8 8,4/ ST / G	5868279	3403 13 0		436
964 M8 G25 V2A	M8 8,4/ V2A	5944386	3403 13 5		387
964 M8 G25 V2A	M8 8,4/ V2A	5944386	3403 13 5		437
964 M8 G25 V4A	M8 8,4/ V4A	5944447	3403 13 7		388
964 M8 G25 V4A	M8 8,4/ V4A	5944447	3403 13 7		437
964 M8 G40 V2A	M8 8,5/ V2A	5946250	3403 14 5		387
964 M8 G40 V2A	M8 8,5/ V2A	5946250	3403 14 5		437
965 M6X20 G	M6 M6/ Zn / G	5303558	3415 03 1		428
965 M6X25 G	M6 M6/ Zn / G	5303619	3415 06 6		428
965 M6X30 G	M6 M6/ Zn / G	5303671	3415 08 2		428
965 M6X40 G	M6 M6/ Zn / G	5303732	3415 10 4		428
965 M6X50 G	M6 M6/ Zn / G	5303794	3415 12 0		428
965 M8X20 G	M8 8/ Zn / G	5303855	3415 14 7		428
965 M8X30 G	M8 M8/ Zn / G	5303916	3415 16 3		428
966 M10 G	M10 10,5/ ST / G	5300137	3402 09 6		349
966 M10 G	M10 10,5/ ST / G	5300137	3402 09 6		387
966 M10 G	M10 10,5/ ST / G	5300137	3402 09 6		436
966 M10 V4A	M10 10,5/ V4A	5618089	3402 32 2		387
966 M10 V4A	M10 10,5/ V4A	5618089	3402 32 2		436
966 M10 VA	M10 10,5/ V2A	5300618	3402 32 0		387
966 M10 VA	M10 10,5/ V2A	5300618	3402 32 0		436
966 M12 G	M12 13/ ST / G	5300199	3402 12 6		387
966 M12 G	M12 13/ ST / G	5300199	3402 12 6		436
966 M12 V4A	M12 13/ V4A	5894780	3402 34 5		387
966 M12 V4A	M12 13/ V4A	5894780	3402 34 5		436
966 M12 VA	M12 13/ V2A	5300670	3402 33 9		387
966 M12 VA	M12 13/ V2A	5300670	3402 33 9		436
966 M4 G	M4 4,3/ ST / G	5299899	3402 04 5		436
966 M6 G	M6 6,4/ ST / G	5300014	3402 06 1		349
966 M6 G	M6 6,4/ ST / G	5300014	3402 06 1		436
966 M6 V4A	M6 6,4/ V4A	5909415	3402 30 6		436
966 M6 VA	M6 6,4/ V2A	5300496	3402 30 4		436
966 M8 G	M8 8,4/ ST / G	5300076	3402 08 8		349
966 M8 G	M8 8,4/ ST / G	5300076	3402 08 8		436
966 M8 V4A	M8 8,4/ V4A	5909477	3402 31 4		436
966 M8 VA	M8 8,4/ V2A	5300557	3402 31 2		436
967 M10 G	M10 11/ St / G	5300434	3402 22 3		349
967 M10 G	M10 11/ St / G	5300434	3402 22 3		387
967 M10 G	M10 11/ St / G	5300434	3402 22 3		436
967 M6 G	M6 6,5/ St / G	5300311	3402 20 7		349
967 M6 G	M6 6,5/ St / G	5300311	3402 20 7		436
967 M8 G	M8 8,5/ St / G	5300373	3402 21 5		349
967 M8 G	M8 8,5/ St / G	5300373	3402 21 5		436
985 M6 25	8 4,3/ St / G	5250395	3133 02 8		428
985 M6 35	8 4,3/ St / G	5250456	3133 03 6		428
985 M8 35	10 5,2/ St / G	5250579	3133 23 0		428
1015 10 G	10 2000/ St / G	5007753	1009 07 9		301
1015 11 G	11 1800/ St / G	5007814	1009 08 7		301
1015 12 G	12 1000/ St / G	5007876	1009 10 9		301
1015 13 G	13 1800/ St / G	5007937	1009 11 7		301
1015 14 G	14 1200/ St / G	5007999	1009 16 8		301
1015 15 G	15 1200/ St / G	5008057	1009 18 4		301
1015 16 G	16 1200/ St / G	5008118	1009 19 2		301
1015 17 G	17 1200/ St / G	5008170	1009 20 6		301
1015 18 G	18 1200/ St / G	5008231	1009 21 4		301
1015 20 G	20 1200/ St / G	5008354	1009 23 0		301
1015 25 G	25 1000/ St / G	5009078	1009 42 7		301
1015 28 G	28 1000/ St / G	5008712	1009 36 2		301
1015 5 G	5 3000/ St / G	5007456	1009 02 8		301
1015 6 G	6 2400/ St / G	5007517	1009 03 6		301
1015 7 G	7 2000/ St / G	5007579	1009 04 4		301
1015 8 G	8 2000/ St / G	5007630	1009 05 2		301
1015 9 G	9 2000/ St / G	5007692	1009 06 0		301
1020 11-16 G	M4 x 13 1200/ St / G	5125891	1404 16 4		318
1020 11-16 V4A	M4 x 13 100/ V4A	5901792	1404 16 8		318
1020 14-18 G	M4 x 13 1000/ St / G	5125952	1404 18 0		318
1020 14-18 V4A	M4 x 13 100/ V4A	5901808	1404 18 4		318
1020 18-28 G	M4 x 13 600/ St / G	5126010	1404 28 8		318
1020 18-28 V4A	M4 x 13 100/ V4A	5901815	1404 29 2		318
1060 26-45 FT	26-45 M5 x 30/ St / FT	5105978	1310 61 5		299
1060 45-68 FT	45-68 M6 x 35/ St / FT	5106036	1310 65 8		299
1101 3.4x100	100 3,4/ St	5288077	3341 99 2		421
1101 3.4x50	50 3,4/ St	5287773	3341 49 6		421
1101 3.4x60	60 3,4/ St	5287834	3341 60 7		421
1101 3.4x70	70 3,4/ St	5287896	3341 70 4		421
1101 3.4x80	80 3,4/ St	5287957	3341 80 1		421
1101 3.4x90	90 3,4/ St	5288015	3341 90 9		421
1101 3x40	40 3/ St	5287537	3341 04 6		421
1101 3x50	50 3/ St	5287599	3341 05 4		421
1101 3x60	60 3/ St	5287650	3341 06 2		421
1101 3x70	70 3/ St	5287711	3341 07 0		421
1101 Z 40 G	40 3/ St / G	5288138	3342 04 2		421
1101 Z 50 G	50 3/ St / G	5288190	3342 05 0		421
1101 Z 60 G	60 3/ St / G	5288251	3342 06 9		421

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Always indicate the item number when ordering.

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
1101 Z 70 G	70 3/ St / G	5288312	3342 07 7		421
1101 Z3.4x50 G	50 3,4/ St / G	5288374	3342 50 6		421
1101 Z3.4x60 G	60 3,4/ St / G	5288435	3342 60 3		421
1101 Z3.4x70 G	70 3,4/ St / G	5288497	3342 70 0		421
1101 Z3.4x80 G	80 3,4/ St / G	5288558	3342 80 8		421
				/pc.	
1268 KD FT	/ St / FT	6192373	6350 10 0		348
1268 KP FT	/ St / FT	6192311	6350 05 4		348
				/100 pc.	
1268 L 150 FS	35 x 18/ ST / FS	5038238	1104 24 1		346
1268 L 150 FS	35 x 18/ ST / FS	5038238	1104 24 1		356
				/100 m	
1268 L 1M FS	35 x 18/ ST / FS	5694458	1104 49 7		346
1268 L 1M FS	35 x 18/ ST / FS	5694458	1104 49 7		356
1268 L 1M VA	35 x 18/ V2A	5627074	1104 49 8		357
				/100 pc.	
1268 L 200 FS	35 x 18/ ST / FS	5038290	1104 26 8		346
1268 L 200 FS	35 x 18/ ST / FS	5038290	1104 26 8		356
				/100 m	
1268 L 2M FS	35 x 18/ ST / FS	5038771	1104 50 0		346
1268 L 2M FS	35 x 18/ ST / FS	5038771	1104 50 0		356
1268 L 2M VA	35 x 18/ V2A	5627081	1104 50 1		357
				/100 pc.	
1268 L 300 FS	35 x 18/ ST / FS	5038351	1104 28 4		346
1268 L 300 FS	35 x 18/ ST / FS	5038351	1104 28 4		356
1268 L 400 FS	35 x 18/ ST / FS	5836353	1104 29 2		346
1268 L 400 FS	35 x 18/ ST / FS	5836353	1104 29 2		356
1268 L 500 FS	35 x 18/ ST / FS	5038412	1104 30 6		346
1268 L 500 FS	35 x 18/ ST / FS	5038412	1104 30 6		356
1268 L 600 FS	35 x 18/ ST / FS	5036678	1104 31 0		346
1268 L 600 FS	35 x 18/ ST / FS	5036678	1104 31 0		356
1268 L 700 FS	35 x 18/ ST / FS	5036739	1104 31 5		346
1268 L 700 FS	35 x 18/ ST / FS	5036739	1104 31 5		356
1268 L 800 FS	35 x 18/ ST / FS	5036791	1104 32 0		346
1268 L 800 FS	35 x 18/ ST / FS	5036791	1104 32 0		356
1268 L 900 FS	35 x 18/ ST / FS	5036852	1104 32 5		346
1268 L 900 FS	35 x 18/ ST / FS	5036852	1104 32 5		356
1268 SK OR	Pastel orange 80 0/ PE	5668114	1124 50 2		347
1268 SK OR	Pastel orange 80 0/ PE	5668114	1124 50 2		357
1268 SL 150 FS	35 x 18/ ST / FS	5038474	1104 34 9		347
1268 SL 150 FS	35 x 18/ ST / FS	5038474	1104 34 9		357
				/100 m	
1268 SL 1M FS	35 x 18/ ST / FS	5052692	1104 44 5		347
1268 SL 1M FS	35 x 18/ ST / FS	5052692	1104 44 5		357
				/100 pc.	
1268 SL 200 FS	35 x 18/ ST / FS	5038535	1104 35 7		347
1268 SL 200 FS	35 x 18/ ST / FS	5038535	1104 35 7		357
				/100 m	
1268 SL 2M FS	35 x 18/ ST / FS	5038719	1104 45 4		347
1268 SL 2M FS	35 x 18/ ST / FS	5038719	1104 45 4		357
				/100 pc.	
1268 SL 300 FS	35 x 18/ ST / FS	5038597	1104 37 3		347
1268 SL 300 FS	35 x 18/ ST / FS	5038597	1104 37 3		357
1268 SL 400 FS	35 x 18/ ST / FS	5052814	1104 39 1		347
1268 SL 400 FS	35 x 18/ ST / FS	5052814	1104 39 1		357
1268 SL 500 FS	35 x 18/ ST / FS	5038658	1104 40 3		347
1268 SL 500 FS	35 x 18/ ST / FS	5038658	1104 40 3		357
1268 SL 600 FS	35 x 18/ ST / FS	5486190	1104 41 1		347
1268 SL 600 FS	35 x 18/ ST / FS	5486190	1104 41 1		357
1268 SL 800 FS	35 x 18/ ST / FS	5051732	1104 42 7		347
1268 SL 800 FS	35 x 18/ ST / FS	5051732	1104 42 7		357
1268 SL 900 FS	35 x 18/ ST / FS	5052630	1104 43 5		347
1268 SL 900 FS	35 x 18/ ST / FS	5052630	1104 43 5		357
				/m	
1268 SP 3M FT	300 0/ St / FT	6192557	6350 20 8		348
				/pc.	
1268 W 90 G	/ St / G	6192496	6350 15 1		348
				/100 pc.	
1594 22 G	22 6/ St / G	5106159	1310 92 5		304
1973 20-40 LGR	20-40 89/ PA	5640035	2148 86 2		271
1973 3-13 LGR	3-13 52/ PA	5947899	2148 80 3		271
1973 8-28 LGR	8-28 70/ PA	5877691	2148 84 6		271
1974 16-23	16-23 6/ PA	5742999	2197 80 4		271
1974 22-30	22-30 6/ PA	5742937	2197 81 2		271
1974 2X12-25	12-25 6/ PA	5742579	2197 86 3		271
1974 2X4-12	4-12 6/ PA	5742630	2197 85 5		271
1975 12-15	12-15 / PA	5844518	2148 02 1		271
1975 16-19	16-19 / PA	5844570	2148 04 8		271
1975 19-22	19-22,5 / PA	5844631	2148 05 6		271
1976 12-15	12-15,5 190 N/ PA	5863779	2148 50 1		271
1976 16-21	16-21,5 500 N/ PA	5863830	2148 52 8		271
1976 22-28	22,5-28,5 500 N/ PA	5863892	2148 53 6		271
1996 40	3 x 40 Transparent/ PP	5705796	2222 83 3		281
1996 50	3,5 x 50 Transparent/ PP	5705734	2222 84 1		281
1996 60	3,5 x 60 Transparent/ PP	5707837	2222 86 8		281
1996 70	3,5 x 70 Transparent/ PP	5509837	2222 87 6		281
1996 N 25	25 3/ St / G	5545590	3369 00 3		420
1996 N 40	40 3/ St / G	5545774	3369 00 5		420
1996 N 60	60 3,5/ St / G	5545897	3369 02 1		420
1996 O	3,0 - 3,5 Transparent/ PP	5698357	2222 80 9		281
2004 18 LGR	4 2,0 x 18/ PP	5217275	2227 22 3		282
2004 18 RW	4 2,0 x 18/ PP	5214878	2225 22 0		283
2004 25 LGR	4 2,0 x 25/ PP	5217336	2227 23 1		282
2004 25 RW	4 2,0 x 25/ PP	5214939	2225 23 9		283
2005 18 LGR	5 2,0 x 18/ PP	5217459	2227 34 7		282
2005 18 RW	5 2,0 x 18/ PP	5215059	2225 37 9		283
2005 25 LGR	5 2,0 x 25/ PP	5217398	2227 33 9		282
2005 25 RW	5 2,0 x 25/ PP	5214991	2225 34 4		283
2006 18 RW	6 2,0 x 18/ PP	5215110	2225 40 9		283
2006 25 LGR	6 2,0 x 25/ PP	5217572	2227 42 8		282
2006 25 RW	6 2,0 x 25/ PP	5215172	2225 41 7		283
2006 35 LGR	6 2,0 x 35/ PP	5217633	2227 43 6		282
2006 35 RW	6 2,0 x 35/ PP	5215233	2225 42 5		283
2007 18 RW	7 2,0 x 18/ PP	5215295	2225 50 6		283
2007 25 LGR	7 2,0 x 25/ PP	5217756	2227 51 7		282
2007 25 RW	7 2,0 x 25/ PP	5215356	2225 51 4		283
2007 25 SW	7 2,0 x 25/ PP	5336372	2232 14 6		283
2007 35 LGR	7 2,0 x 35/ PP	5217817	2227 52 5		282
2007 35 RW	7 2,0 x 35/ PP	5215417	2225 52 2		283
2008 25 LGR	8 2,0 x 25/ PP	5217930	2227 61 4		282
2008 25 RW	8 2,0 x 25/ PP	5215530	2225 61 1		283
2008 25 SW	8 2,0 x 25/ PP	5336310	2232 17 0		283
2008 35 LGR	8 2,0 x 35/ PP	5217992	2227 62 2		282
2008 35 RW	8 2,0 x 35/ PP	5215592	2225 63 8		283
2008 45 LGR	8 2,0 x 45/ PP	5218050	2227 63 0		282
2009 20 RW	9 2,0 x 20/ PP	5215714	2225 70 0		283
2009 25 LGR	9 2,0 x 25/ PP	5218173	2227 71 1		282
2009 25 RW	9 2,0 x 25/ PP	5215776	2225 71 9		283
2009 25 SW	9 2,0 x 25/ PP	5336198	2232 21 9		283
2009 35 LGR	9 2,0 x 35/ PP	5218234	2227 73 8		282
2009 35 LGR SP	9 2,0 x 35/ PP	5607694	2227 76 2		282
2009 35 RW	9 2,0 x 35/ PP	5215837	2225 72 7		283
2009 45 LGR	9 2,0 x 45/ PP	5218296	2227 74 6		282
2009 45 LGR SP	9 2,0 x 45/ PP	5607878	2227 79 7		282
2010 25 LGR	10 2,0 x 25/ PP	5218357	2227 80 0		282
2010 25 RW	10 2,0 x 25/ PP	5215899	2225 80 8		283
2010 25 SW	10 2,0 x 25/ PP	5336136	2232 23 5		283
2010 35 LGR	10 2,0 x 35/ PP	5218418	2227 81 9		282
2010 35 RW	10 2,0 x 35/ PP	5215950	2225 81 6		283
2010 45 LGR	10 2,0 x 45/ PP	5218470	2227 82 7		282
2011 25 RW	11 2,0 x 25/ PP	5216070	2225 90 5		283
2011 35 LGR	11 2,0 x 35/ PP	5218593	2227 91 6		282
2011 35 RW	11 2,0 x 35/ PP	5216131	2225 91 3		283
2011 45 LGR	11 2,0 x 45/ PP	5218654	2227 92 4		282
2012 25 RW	12 2,0 x 25/ PP	5216254	2226 01 4		283
2012 35 LGR	12 2,0 x 35/ PP	5218777	2228 02 5		282
2012 35 RW	12 2,0 x 35/ PP	5216315	2226 02 2		283
2012 35 SW	12 2,0 x 35/ PP	5335955	2232 31 6		283
2012 45 LGR	12 2,0 x 45/ PP	5218838	2228 03 3		282
2014 30 RW	14 2,5 x 30/ PP	5216438	2226 10 3		283
2014 40 LGR	14 2,5 x 40/ PP	5218951	2228 11 4		282
2014 40 RW	14 2,5 x 40/ PP	5216490	2226 11 1		283
2014 50 LGR	14 2,5 x 50/ PP	5219019	2228 12 2		282
2016 40 LGR	16 2,5 x 40/ PP	5219132	2228 21 1		282
2016 40 RW	16 2,5 x 40/ PP	5216674	2226 21 9		283
2016 50 LGR	16 2,5 x 50/ PP	5219194	2228 23 8		282
2016 50 RW	16 2,5 x 50/ PP	5216735	2226 22 7		283

Type listing

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
2018 40 LGR	18 2,5 x 40 / PP	5219255	2228 30 0		282
2018 40 RW	18 2,5 x 40 / PP	5216797	2226 30 8		283
2018 50 LGR	18 2,5 x 50 / PP	5219316	2228 31 9		282
2020 40 LGR	20 2,5 x 40 / PP	5219378	2228 40 8		282
2020 40 RW	20 2,5 x 40 / PP	5216919	2226 40 5		283
2020 50 LGR	20 2,5 x 50 / PP	5219439	2228 41 6		282
2025 18 LGR	2 x 18 4-7 / PP	5219552	2228 61 0		282
2025 18 RW	2,0 x 18 4-7 / PP	5496519	2228 68 6		282
2025 25 LGR	2 x 25 4-7 / PP	5219613	2228 62 9		282
2025 25 RW	2,0 x 25 4-7 / PP	5828556	2228 68 8		282
2026 18 LGR	2 x 18 7-12 / PP	5219675	2228 71 8		282
2026 18 RW	2,0 x 18 7-12 / PP	5496397	2228 42 0		282
2026 25 LGR	2 x 25 7-12 / PP	5219736	2228 72 6		282
2026 25 LGR SP	2 x 25 7-12 / PP	5608110	2228 43 2		282
2026 25 RW	2,0 x 25 7-12 / PP	5496458	2228 42 2		282
2026 35 LGR	2 x 35 7-12 / PP	5219798	2228 73 4		282
2026 35 LGR SP	2 x 35 7-12 / PP	5608172	2228 44 0		282
2026 45 LGR	2 x 45 7-12 / PP	5608837	2228 75 0		282
2027 25 LGR	2 x 25 10-14 / PP	5219859	2228 82 3		282
2027 30 LGR	2 x 30 10-14 / PP	5219910	2228 83 1		282
2027 40 LGR	2 x 40 10-14 / PP	5219972	2228 85 8		282
2028 40 LGR	2 x 40 14-17 / PP	5220039	2228 90 4		282
2029 M16 ALU	M16 / AI	5932710	2149 85 0		288
2029 M25 ALU	M25 / AI	5932727	2149 85 8		288
2029 M32 ALU	M32 / AI	5932734	2149 86 2		288
2029 M40 ALU	M40 / AI	5932741	2149 86 6		288
2029 M50 ALU	M50 / AI	5932758	2149 87 0		288
2029 M63 ALU	M63 / AI	5932765	2149 87 4		288
2031 10	10 Light grey / PP	5726951	2205 39 8		273
2031 20	20 Light grey / PP	5651635	2205 40 4		273
2031 40	40 Light grey / PP	5651666	2205 41 6		273
2031 F 10	10 Stone grey / PP	5726968	2205 40 0		273
2031 F 20	20 Stone grey / PP	5651659	2205 41 2		273
2031 F 40	40 Stone grey / PP	5651710	2205 42 3		273
2031 M 15 FS	15 50 / St / FS	5863953	2207 02 8		289
2031 M 15 V4A	15 50 / V4A	5809456	2207 13 2		289
2031 M 15 VA	15 50 / V2A	5809395	2207 08 0		289
2031 M 30 FS	30 25 / St / FS	5798798	2207 03 6		289
2031 M 30 V4A	30 25 / V4A	5809463	2207 14 0		290
2031 M 30 VA	30 25 / V2A	5809401	2207 08 8		289
2031 M 70 FS	70 10 / St / FS	5022497	2207 06 0		290
2031 M 70 V4A	70 10 / V4A	5809470	2207 16 4		290
2031 M 70 VA	70 10 / V2A	5809449	2207 11 2		290
2032	8 Light grey / PA	5211273	2205 01 7		274
2032 AS	8 Light grey / PA	5710028	2205 05 2		274
2032 F	8 Stone grey / PBPT	5211099	2204 90 8		274
2032 SD	8 Light grey / PA	5210917	2204 80 0		275
2032 SD SP	8 Light grey / PA	5597490	2204 85 1		275
2032 SP	8 Light grey / PA	5597674	2204 97 5		274
2033	16 Light grey / PA	5211334	2205 03 3		274
2033 AS	16 Light grey / PA	5710035	2205 05 3		274
2033 D 15x3 G	15 6,4 / St / G	5044970	2205 09 7		291
2033 D 25x19	Light grey 2400 / PS	5211457	2205 09 2		275
2033 F	16 Stone grey / PBPT	5211150	2204 91 6		274
2033 M	16 25 / V2A	5036616	2204 00 0		291
2033 SD	16 Light grey / PA	5210979	2204 81 9		275
2033 SD SP	16 Light grey / PA	5597551	2204 87 8		275
2033 SP	16 Light grey / PA	5597735	2204 98 3		274
2033 STD	16 Light grey / PA	5693253	2204 54 1		275
2034	10 Light grey / PA	5211396	2205 04 1		274
2034 AS	10 Light grey / PA	5710042	2205 05 4		274
2034 F	10 Stone grey / PBPT	5211211	2204 92 4		274
2034 M	10 50 / V2A	5210672	2204 01 0		291
2034 SP	10 Light grey / PA	5597797	2204 99 1		274
2036 10-15 LGR	10-15 Light grey / PE	5223092	2259 14 1		376
2036 18-23 LGR	18-23 Light grey / PE	5223214	2259 23 0		376
2036 22-28 LGR	22-28 Light grey / PE	5223276	2259 28 1		376
2036 4-7 LGR	4-7 Light grey / PE	5222972	2259 07 9		376
2037 12-20 LGR	12-20 Light grey / PA	5221418	2250 20 9		276
2037 16-24 LGR	16-24 Light grey / PA	5221470	2250 24 1		276
2037 18-30 LGR	18-30 Light grey / PA	5221531	2250 30 6		276
2037 27-43 LGR	27-43 Light grey / PA	5221593	2250 43 8		276
2037 3-7 LGR	3-7 Light grey / PA	5221296	2250 07 1		276
2037 6-13 LGR	6-13 Light grey / PA	5221357	2250 13 6		276

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
2047 5-25 LGR	5-25 Light grey / PS	5221654	2251 25 6		376
2049 4-14 LGR	4-14 M3 x 17 / PS	5222071	2254 01 8		375
2050 5-25 LGR	5-25 M4 x 27 / PS	5222132	2254 02 6		375
2051 8-36 LGR	8-36 M4 x 37.5 / PS	5222194	2254 03 4		375
2054 14-48 LGR	14-48 M8 x 55 / PA	5222798	2255 01 4		376
2054 14-48 PA	14-48 M8 x 55 / PA	5905592	2255 40 5		376
2055 24-72 LGR	24-72 M8 x 75 / PA	5222859	2255 02 2		376
2056 100 FT	90-100 / ST / FT	5065296	1160 99 0		397
2056 12 ALU	8-12 / AI	5077299	1183 20 6		398
2056 12 FT	8-12 / ST / FT	5064459	1160 12 5		397
2056 12 VA	8-12 / V2A	5063612	1159 51 8		400
2056 16 ALU	12-16 / AI	5077350	1183 21 4		398
2056 16 FT	12-16 / ST / FT	5064510	1160 16 8		397
2056 16 VA	12-16 / V2A	5063674	1159 52 6		400
2056 2 12 ALU	8-12 / AI	5435495	1183 38 9		399
2056 2 12 FT	8-12 / ST / FT	5065357	1161 12 1		397
2056 2 16 ALU	12-16 / AI	5435556	1183 39 7		399
2056 2 16 FT	12-16 / ST / FT	5065418	1161 16 4		397
2056 2 22 ALU	16-22 / AI	5435617	1183 40 0		399
2056 2 22 FT	16-22 / ST / FT	5065470	1161 22 9		397
2056 2 22 VA	16-22 / V2A	5066071	1161 82 2		400
2056 2 28 ALU	22-28 / AI	5435679	1183 41 9		399
2056 2 28 FT	22-28 / ST / FT	5065531	1161 28 8		397
2056 2 28 VA	22-28 / V2A	5066132	1161 83 0		400
2056 2 34 ALU	28-34 / AI	5435730	1183 42 7		399
2056 2 34 FT	28-34 / ST / FT	5065593	1161 34 2		397
2056 2 34 VA	28-34 / V2A	5066194	1161 84 9		400
2056 2 40 ALU	34-40 / AI	5435792	1183 43 5		399
2056 2 40 FT	34-40 / ST / FT	5065654	1161 40 7		397
2056 2 40 VA	34-40 / V2A	5066255	1161 85 7		400
2056 2 46 ALU	40-46 / AI	5435853	1183 44 3		399
2056 2 46 FT	40-46 / ST / FT	5065715	1161 46 6		397
2056 2 46 VA	40-46 / V2A	5066316	1161 86 5		400
2056 2 52 ALU	46-52 / AI	5435914	1183 45 1		399
2056 2 52 FT	46-52 / ST / FT	5065777	1161 52 0		397
2056 2 52 VA	46-52 / V2A	5066378	1161 87 3		400
2056 2 58 ALU	52-58 / AI	5435976	1183 47 8		399
2056 2 58 FT	52-58 / ST / FT	5065838	1161 57 1		397
2056 2 58 VA	52-58 / V2A	5066439	1161 88 1		400
2056 2 64 FT	58-64 / ST / FT	5065890	1161 64 4		397
2056 2 64 VA	58-64 / V2A	5066491	1161 90 3		400
2056 22 ALU	16-22 / AI	5077411	1183 22 2		398
2056 22 FT	16-22 / ST / FT	5064572	1160 22 2		397
2056 22 VA	16-22 / V2A	5063735	1159 53 4		400
2056 28 ALU	22-28 / AI	5077473	1183 23 0		398
2056 28 FT	22-28 / ST / FT	5064633	1160 28 1		397
2056 28 VA	22-28 / V2A	5063797	1159 54 2		400
2056 3 12 FT	8-12 / ST / FT	5066972	1162 12 8		398
2056 3 16 FT	12-16 / ST / FT	5067030	1162 16 0		398
2056 3 22 ALU	16-22 / AI	5436218	1183 52 4		399
2056 3 22 FT	16-22 / ST / FT	5067092	1162 22 5		398
2056 3 28 ALU	22-28 / AI	5436270	1183 53 2		399
2056 3 28 FT	22-28 / ST / FT	5067153	1162 28 4		398
2056 3 34 ALU	28-34 / AI	5436331	1183 54 0		399
2056 3 34 FT	28-34 / ST / FT	5067214	1162 34 9		398
2056 3 40 FT	34-40 / ST / FT	5067276	1162 40 3		398
2056 3 46 FT	40-46 / ST / FT	5067337	1162 46 2		398
2056 34 ALU	28-34 / AI	5077534	1183 24 9		398
2056 34 FT	28-34 / ST / FT	5064695	1160 34 6		397
2056 34 VA	28-34 / V2A	5063858	1159 55 0		400
2056 40 ALU	34-40 / AI	5077596	1183 25 7		398
2056 40 FT	34-40 / ST / FT	5064756	1160 40 0		397
2056 40 VA	34-40 / V2A	5063919	1159 56 9		400
2056 46 ALU	40-46 / AI	5077657	1183 26 5		398
2056 46 FT	40-46 / ST / FT	5064817	1160 45 1		397
2056 46 VA	40-46 / V2A	5063971	1159 57 7		400
2056 52 ALU	46-52 / AI	5077718	1183 27 3		398
2056 52 FT	46-52 / ST / FT	5064879	1160 52 4		397
2056 52 VA	46-52 / V2A	5064039	1159 58 5		400
2056 58 ALU	52-58 / AI	5077770	1183 28 1		398
2056 58 FT	52-58 / ST / FT	5064930	1160 58 3		397
2056 58 VA	52-58 / V2A	5064091	1159 59 3		400
2056 64 ALU	58-64 / AI	5077831	1183 30 3		398
2056 64 FT	58-64 / ST / FT	5064992	1160 64 8		397
2056 64 VA	58-64 / V2A	5064152	1159 60 7		400
2056 70 ALU	64-70 / AI	5435310	1183 31 1		398
2056 70 FT	64-70 / ST / FT	5065050	1160 70 2		397
2056 70 VA	64-70 / V2A	5064213	1159 61 5		400
2056 76 ALU	70-76 / AI	5435372	1183 33 8		398
2056 76 FT	70-76 / ST / FT	5065111	1160 76 1		397

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Always indicate the item number when ordering.

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
2056 76 VA	70-76 / V2A	5064275	1159 62 3		400
2056 82 FT	76-82 / ST / FT	5065173	1160 82 6		397
2056 90 FT	82-90 / ST / FT	5065234	1160 90 7		397
2056 B 35 FT	35 x 50 35/ St / FT	5081258	1194 05 4		414
2056 B 40 FT	40 x 100 40/ St / FT	5081197	1194 04 6		414
2056 B 80 FT	80 x 100 80/ St / FT	5081319	1194 08 9		414
2056 B 80 VA	80 x 100 80/ V2A	5476771	1194 37 2		414
2056 BE FT	/ St / FT	5072492	1174 05 3		403
2056 E 31 FT	28-31 / St / FT	5500353	1174 60 6		413
2056 E 37 FT	34-37 / St / FT	5500414	1174 61 4		413
2056 E 44 FT	40-44 / St / FT	5500476	1174 63 0		413
2056 M 100 FT	90-100 / ST / FT	5063551	1156 16 0		401
2056 M 12 FT	8-12 / ST / FT	5062714	1156 00 4		401
2056 M 12 VA	8-12 / V2A	5668190	1159 71 2		402
2056 M 16 FT	12-16 / ST / FT	5062776	1156 01 2		401
2056 M 16 VA	12-16 / V2A	5668206	1159 71 6		402
2056 M 22 FT	16-22 / ST / FT	5062837	1156 02 0		401
2056 M 22 VA	16-22 / V2A	5668213	1159 72 2		402
2056 M 28 FT	22-28 / ST / FT	5062899	1156 03 9		401
2056 M 28 VA	22-28 / V2A	5668220	1159 72 8		402
2056 M 34 FT	28-34 / ST / FT	5062950	1156 04 7		401
2056 M 34 VA	28-34 / V2A	5668268	1159 73 4		402
2056 M 40 FT	34-40 / ST / FT	5063018	1156 05 5		401
2056 M 40 VA	34-40 / V2A	5668275	1159 74 0		402
2056 M 46 FT	40-46 / ST / FT	5063070	1156 06 3		401
2056 M 46 VA	40-46 / V2A	5668282	1159 74 6		402
2056 M 52 FT	46-52 / ST / FT	5063131	1156 07 1		401
2056 M 52 VA	46-52 / V2A	5668299	1159 75 2		402
2056 M 58 FT	52-58 / ST / FT	5063193	1156 09 8		401
2056 M 58 VA	52-58 / V2A	5668305	1159 75 8		402
2056 M 64 FT	58-64 / ST / FT	5063254	1156 10 1		401
2056 M 64 VA	58-64 / V2A	5668312	1159 76 4		402
2056 M 70 FT	64-70 / ST / FT	5063315	1156 12 8		401
2056 M 70 VA	64-70 / V2A	5668329	1159 77 0		402
2056 M 76 FT	70-76 / ST / FT	5063377	1156 13 6		401
2056 M 76 VA	70-76 / V2A	5668336	1159 77 6		402
2056 M 82 FT	76-82 / ST / FT	5063438	1156 14 4		401
2056 M 90 FT	82-90 / ST / FT	5063490	1156 15 2		401
2056 M2 12 FT	8-12 / St / FT	5494836	1156 17 9		401
2056 M2 12 VA	8-12 / V2A	5668343	1161 91 2		403
2056 M2 16 FT	12-16 / St / FT	5494898	1156 18 7		401
2056 M2 16 VA	12-16 / V2A	5668381	1161 91 6		403
2056 M2 22 FT	16-22 / St / FT	5494959	1156 19 5		401
2056 M2 22 VA	16-22 / V2A	5668398	1161 92 2		403
2056 M2 28 FT	22-28 / St / FT	5958703	1156 20 9		401
2056 M2 28 VA	22-28 / V2A	5668404	1161 92 8		403
2056 M2 34 VA	28-34 / V2A	5668442	1161 93 4		403
2056 M2 40 VA	34-40 / V2A	5668459	1161 94 0		403
2056 M2 46 VA	40-46 / V2A	5668466	1161 94 6		403
2056 M2 52 VA	46-52 / V2A	5668503	1161 95 2		403
2056 M2 58 VA	52-58 / V2A	5668510	1161 95 8		403
2056 M2 64 VA	58-64 / V2A	5668527	1161 96 4		403
2056 M3 12 FT	8-12 / St / FT	5958765	1156 24 1		402
2056 M3 16 FT	12-16 / St / FT	5958826	1156 26 8		402
2056 M3 22 FT	16-22 / St / FT	5958888	1156 27 6		402
2056 M3 28 FT	22-28 / St / FT	5958949	1156 28 4		402
2056F 12 ALU	8-12 / AI	5440239	1184 70 9		409
2056F 12 FT	8-12 / ST / FT	5070634	1169 12 2		408
2056F 12 VA	8-12 / V2A	5077893	1185 00 4		409
2056F 16 ALU	12-16 / AI	5440291	1184 71 7		409
2056F 16 FT	12-16 / ST / FT	5070696	1169 16 5		408
2056F 16 VA	12-16 / V2A	5077954	1185 01 2		409
2056F 2 12 FT	8-12 / ST / FT	5071532	1170 12 0		408
2056F 2 16 FT	12-16 / ST / FT	5071594	1170 16 3		408
2056F 2 22 FT	16-22 / ST / FT	5071655	1170 22 8		408
2056F 2 28 FT	22-28 / ST / FT	5071716	1170 28 7		408
2056F 2 34 FT	28-34 / ST / FT	5071778	1170 34 1		408
2056F 2 40 FT	34-40 / ST / FT	5071839	1170 40 6		408
2056F 2 46 FT	40-46 / ST / FT	5071891	1170 46 5		408
2056F 2 52 FT	46-52 / ST / FT	5071952	1170 51 1		408
2056F 22 ALU	16-22 / AI	5440352	1184 72 5		409
2056F 22 FT	16-22 / ST / FT	5070757	1169 21 1		408
2056F 22 VA	16-22 / V2A	5078012	1185 02 0		409
2056F 28 ALU	22-28 / AI	5440413	1184 73 3		409
2056F 28 FT	22-28 / ST / FT	5070818	1169 28 9		408
2056F 28 VA	22-28 / V2A	5078074	1185 03 9		409
2056F 34 ALU	28-34 / AI	5440475	1184 74 1		409
2056F 34 FT	28-34 / ST / FT	5070870	1169 34 3		408
2056F 34 VA	28-34 / V2A	5078135	1185 04 7		409
2056F 40 ALU	34-40 / AI	5440536	1184 76 8		409
2056F 40 FT	34-40 / ST / FT	5070931	1169 40 8		408
2056F 40 VA	34-40 / V2A	5078197	1185 05 5		409
2056F 46 FT	40-46 / ST / FT	5070993	1169 46 7		408
2056F 46 VA	40-46 / V2A	5078258	1185 06 3		409
2056F 46ALU	40-46 / AI	5440598	1184 77 6		409
2056F 52 FT	46-52 / ST / FT	5071051	1169 52 1		408
2056F 52 VA	46-52 / V2A	5078319	1185 07 1		409
2056F 58 FT	52-58 / ST / FT	5071112	1169 58 0		408
2056F 58 VA	52-58 / V2A	5078371	1185 09 8		409
2056F 64 FT	58-64 / ST / FT	5071174	1169 64 5		408
2056F 64 VA	58-64 / V2A	5078432	1185 10 1		409
2056F 70 FT	64-70 / ST / FT	5071235	1169 69 6		408
2056F 76 FT	70-76 / ST / FT	5071297	1169 76 9		408
2056F 82 FT	76-82 / ST / FT	5071358	1169 82 3		408
2056F 90 FT	82-90 / ST / FT	5071419	1169 90 4		408
2056F M 12 FT	8-12 / St / FT	5495192	1156 80 2		410
2056F M 16 FT	12-16 / St / FT	5495253	1156 81 0		410
2056F M 22 FT	16-22 / St / FT	5495314	1156 82 9		410
2056F M 28 FT	22-28 / St / FT	5495376	1156 83 7		410
2056N 12 ALU	8-12 / AI	5436515	1183 60 5		395
2056N 12 FT	8-12 / ST / FT	5067399	1163 12 4		394
2056N 12 VA	8-12 / V2A	5069256	1166 01 8		395
2056N 16 ALU	12-16 / AI	5436577	1183 61 3		395
2056N 16 FT	12-16 / ST / FT	5067450	1163 16 7		394
2056N 16 VA	12-16 / V2A	5069317	1166 02 6		395
2056N 2 12 FT	8-12 / ST / FT	5068297	1164 12 0		394
2056N 2 16 FT	12-16 / ST / FT	5068358	1164 16 3		394
2056N 2 22 FT	16-22 / ST / FT	5068419	1164 22 8		394
2056N 2 28 FT	22-28 / ST / FT	5068471	1164 28 7		394
2056N 2 34 FT	28-34 / ST / FT	5068532	1164 34 1		394
2056N 2 40 FT	34-40 / ST / FT	5068594	1164 40 6		394
2056N 2 46 FT	40-46 / ST / FT	5068655	1164 46 5		394
2056N 2 52 FT	46-52 / ST / FT	5068716	1164 51 1		394
2056N 2 58 FT	52-58 / ST / FT	5068778	1164 58 9		394
2056N 22 ALU	16-22 / AI	5436638	1183 62 1		395
2056N 22 FT	16-22 / ST / FT	5067511	1163 22 1		394
2056N 22 VA	16-22 / V2A	5069379	1166 03 4		395
2056N 28 ALU	22-28 / AI	5436690	1183 64 8		395
2056N 28 FT	22-28 / ST / FT	5067573	1163 28 0		394
2056N 28 VA	22-28 / V2A	5069430	1166 04 2		395
2056N 34 ALU	28-34 / AI	5436751	1183 65 6		395
2056N 34 FT	28-34 / ST / FT	5067634	1163 34 5		394
2056N 34 VA	28-34 / V2A	5069492	1166 05 0		395
2056N 40 ALU	34-40 / AI	5436812	1183 66 4		395
2056N 40 FT	34-40 / ST / FT	5067696	1163 39 6		394
2056N 40 VA	34-40 / V2A	5069553	1166 06 9		395
2056N 46 ALU	40-46 / AI	5436874	1183 67 2		395
2056N 46 FT	40-46 / ST / FT	5067757	1163 46 9		394
2056N 46 VA	40-46 / V2A	5069614	1166 07 7		395
2056N 52 ALU	46-52 / AI	5436935	1183 68 0		395
2056N 52 FT	46-52 / ST / FT	5067818	1163 52 3		394
2056N 52 VA	46-52 / V2A	5069676	1166 08 5		395
2056N 58 FT	52-58 / ST / FT	5067870	1163 58 2		394
2056N 58 VA	52-58 / V2A	5069737	1166 09 3		395
2056N 58ALU	52-58 / AI	5436997	1183 69 9		395
2056N 64 FT	58-64 / ST / FT	5067931	1163 64 7		394
2056N 64 VA	58-64 / V2A	5069799	1166 10 7		395
2056N 70 FT	64-70 / ST / FT	5067993	1163 70 1		394
2056N M 12 FT	8-12 / St / FT	5060857	1155 40 7		396
2056N M 16 FT	12-16 / St / FT	5060918	1155 41 5		396
2056N M 22 FT	16-22 / St / FT	5060970	1155 42 3		396
2056N M 28 FT	22-28 / St / FT	5061038	1155 43 1		396
2056N M 34 FT	28-34 / St / FT	5061090	1155 45 8		396
2056N M 40 FT	34-40 / St / FT	5061151	1155 46 6		396
2056N M 46 FT	40-46 / St / FT	5061212	1155 47 4		396
2056N M 52 FT	46-52 / St / FT	5061274	1155 48 2		396
2056N M 58 FT	52-58 / St / FT	5061335	1155 49 0		396
2056N SAS 12 VA	8-12 / V2A	5432432	1167 01 4		396
2056N SAS 16 VA	12-16 / V2A	5432494	1167 02 2		396
2056N SAS 22 VA	16-22 / V2A	5432555	1167 03 0		396
2056N SAS 28 VA	22-28 / V2A	5432616	1167 04 9		396
2056N SAS 8 VA	4-8 / V2A	5432371	1167 00 6		396
2056R M 22 FS	16-22 / St / FS	5236597	1158 41 0		413
2056R M 28 FS	22-28 / St / FS	5236603	1158 41 4		413
2056R M 34 FS	28-34 / St / FS	5236610	1158 41 8		413
2056R M 40 FS	34-40 / St / FS	5236627	1158 42 2		413
2056RS M 16 FT	12-16 / St / FT	5358411	1158 30 5		413
2056RS M 22 FT	16-22 / St / FT	5358428	1158 30 9		413
2056RS M 28 FT	22-28 / St / FT	5358435	1158 31 3		413
2056RS M 34 FT	28-34 / St / FT	5358442	1158 31 7		413
2056RS M 40 FT	34-40 / St / FT	5358473	1158 32 1		413
2056RS M 46 FT	40-46 / St / FT	5358480	1158 32 5		413
2056RS M 52 FT	46-52 / St / FT	5358497	1158 32 9		413
2056RS M 58 FT	52-58 / St / FT	5358503	1158 33 3		413
2056RS M 64 FT	58-64 / St / FT	5358534	1158 33 7		413
2056U 100 FT	90-100 / ST / FT	5073574	1175 99 8		404
2056U 12 ALU	8-12 / AI	5439035	1184 40 7		406
2056U 12 FT	8-12 / ST / FT	5072737	1175 12 2		404
2056U 12 VA	8-12 / V2A	5074595	1178 50 4		405
2056U 16 ALU	12-16 / AI	5439097	1184 41 5		406
2056U 16 FT	12-16 / ST / FT	5072799	1175 16 5		404
2056U 16 VA	12-16 / V2A	5074656	1178 51 2		405

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Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price /100 pc.	Page
2056U 2 12 FT	8-12 / ST / FT	5073635	1176 12 9		404
2056U 2 16 FT	12-16 / ST / FT	5073697	1176 16 1		404
2056U 2 22 FT	16-22 / ST / FT	5073758	1176 22 6		404
2056U 2 28 FT	22-28 / ST / FT	5073819	1176 28 5		404
2056U 2 34 FT	28-34 / ST / FT	5073871	1176 33 1		404
2056U 2 40 FT	34-40 / ST / FT	5073932	1176 40 4		404
2056U 2 46 FT	40-46 / ST / FT	5073994	1176 46 3		404
2056U 2 52 FT	46-52 / ST / FT	5074052	1176 52 8		404
2056U 2 58 FT	52-58 / ST / FT	5074113	1176 58 7		404
2056U 22 ALU	16-22 / AI	5439158	1184 42 3		406
2056U 22 FT	16-22 / ST / FT	5072850	1175 21 1		404
2056U 22 VA	16-22 / V2A	5074717	1178 52 0		405
2056U 28 ALU	22-28 / AI	5439219	1184 43 1		406
2056U 28 FT	22-28 / ST / FT	5072911	1175 28 9		404
2056U 28 VA	22-28 / V2A	5074779	1178 53 9		405
2056U 3 12 FT	8-12 / ST / FT	5074175	1177 12 5		405
2056U 3 16 FT	12-16 / ST / FT	5074236	1177 16 8		405
2056U 3 22 FT	16-22 / ST / FT	5074298	1177 22 2		405
2056U 3 28 FT	22-28 / ST / FT	5074359	1177 28 1		405
2056U 3 34 FT	28-34 / ST / FT	5074410	1177 34 6		405
2056U 3 40 FT	34-40 / ST / FT	5074472	1177 40 0		405
2056U 3 46 FT	40-46 / ST / FT	5074533	1177 45 1		405
2056U 34 ALU	28-34 / AI	5439271	1184 45 8		406
2056U 34 FT	28-34 / ST / FT	5072973	1175 34 3		404
2056U 34 VA	28-34 / V2A	5074830	1178 54 7		405
2056U 40 ALU	34-40 / AI	5439332	1184 46 6		406
2056U 40 FT	34-40 / ST / FT	5073031	1175 40 8		404
2056U 40 VA	34-40 / V2A	5074892	1178 55 5		405
2056U 46 ALU	40-46 / AI	5439394	1184 47 4		406
2056U 46 FT	40-46 / ST / FT	5073093	1175 46 7		404
2056U 46 VA	40-46 / V2A	5074953	1178 56 3		405
2056U 52 ALU	46-52 / AI	5439455	1184 48 2		406
2056U 52 FT	46-52 / ST / FT	5073154	1175 52 1		404
2056U 52 VA	46-52 / V2A	5075011	1178 57 1		405
2056U 58 ALU	52-58 / AI	5439516	1184 49 0		406
2056U 58 FT	52-58 / ST / FT	5073215	1175 58 0		404
2056U 58 VA	52-58 / V2A	5075073	1178 59 8		405
2056U 64 ALU	58-64 / AI	5439578	1184 50 4		406
2056U 64 FT	58-64 / ST / FT	5073277	1175 64 5		404
2056U 64 VA	58-64 / V2A	5075134	1178 60 1		405
2056U 70 ALU	64-70 / AI	5439752	1184 53 9		406
2056U 70 FT	64-70 / ST / FT	5073338	1175 69 6		404
2056U 70 VA	64-70 / V2A	5075196	1178 62 8		405
2056U 76 ALU	70-76 / AI	5439639	1184 51 2		406
2056U 76 FT	70-76 / ST / FT	5073390	1175 76 9		404
2056U 76 VA	70-76 / V2A	5075257	1178 63 6		405
2056U 82 FT	76-82 / ST / FT	5073451	1175 82 3		404
2056U 90 FT	82-90 / ST / FT	5073512	1175 90 4		404
2056U M 12 FT	8-12 / St / FT	5498254	1158 00 7		406
2056U M 12 V4A	8-12 / V4A	5912255	1158 20 7		407
2056U M 16 FT	12-16 / St / FT	5498315	1158 01 5		406
2056U M 16 V4A	12-16 / V4A	5912262	1158 21 1		407
2056U M 22 FT	16-22 / St / FT	5498377	1158 02 3		406
2056U M 22 V4A	16-22 / V4A	5912279	1158 21 5		407
2056U M 28 FT	22-28 / St / FT	5498438	1158 03 1		406
2056U M 28 V4A	22-28 / V4A	5912286	1158 21 9		407
2056U M 34 FT	28-34 / St / FT	5498490	1158 05 8		406
2056U M 34 V4A	28-34 / V4A	5912293	1158 22 3		407
2056U M 40 FT	34-40 / St / FT	5498551	1158 06 6		406
2056U M 40 V4A	34-40 / V4A	5912309	1158 22 7		407
2056U M 46 FT	40-46 / St / FT	5498612	1158 07 4		406
2056U M 46 V4A	40-46 / V4A	5912316	1158 23 1		407
2056U M 52 FT	46-52 / St / FT	5498674	1158 08 2		406
2056U M 52 V4A	46-52 / V4A	5912323	1158 23 5		407
2056U M 58 FT	52-58 / St / FT	5498735	1158 09 0		406
2056U M 58 V4A	52-58 / V4A	5912330	1158 23 9		407
2056U M 64 FT	58-64 / St / FT	5498797	1158 10 4		406
2056U M 64 V4A	58-64 / V4A	5912347	1158 24 3		407
2056U M 70 FT	64-70 / St / FT	5498858	1158 11 2		406
2056U M 70 V4A	64-70 / V4A	5912354	1158 24 7		407
2056U M 76 FT	70-76 / St / FT	5498919	1158 12 0		406
2056U M 76 V4A	70-76 / V4A	5912361	1158 25 1		407
2056U-E28 FT	25-28 / St / FT	5451211	1174 50 9		414
2056U-E31 FT	28-31 / St / FT	5072553	1174 54 1		414
2056U-E34 FT	31-34 / St / FT	5451273	1174 51 7		414
2056U-E37 FT	34-37 / St / FT	5072614	1174 56 8		414
2056U-E40 FT	37-40 / St / FT	5451334	1174 52 5		414
2056U-E44 FT	40-44 / St / FT	5072676	1174 57 6		414
2056W 12 ALU	8-12 / AI	5437710	1184 00 8		412
2056W 12 FT	8-12 / ST / FT	5075431	1180 12 6		411
2056W 16 ALU	12-16 / AI	5437772	1184 01 6		412
2056W 16 FT	12-16 / ST / FT	5075493	1180 16 9		411
2056W 2 12 FT	8-12 / ST / FT	5076339	1181 12 2		411
2056W 2 16 FT	12-16 / ST / FT	5076391	1181 16 5		411
2056W 2 22 FT	16-22 / ST / FT	5076452	1181 21 1		411
2056W 2 28 FT	22-28 / ST / FT	5076513	1181 28 9		411
2056W 2 34 FT	28-34 / ST / FT	5076575	1181 34 3		411
2056W 2 40 FT	34-40 / ST / FT	5076636	1181 40 8		411
2056W 2 46 FT	40-46 / ST / FT	5076698	1181 46 7		411
2056W 2 52 FT	46-52 / ST / FT	5076759	1181 52 1		411
2056W 2 58 FT	52-58 / ST / FT	5076810	1181 58 0		411
2056W 22 ALU	16-22 / AI	5446354	1184 02 4		412
2056W 22 FT	16-22 / ST / FT	5075554	1180 22 3		411
2056W 22 VA	16-22 / V2A	5079392	1185 43 8		412
2056W 28 ALU	22-28 / AI	5437833	1184 03 2		412
2056W 28 FT	22-28 / ST / FT	5075615	1180 28 2		411
2056W 28 VA	22-28 / V2A	5079453	1185 44 6		412
2056W 34 ALU	28-34 / AI	5437895	1184 04 0		412
2056W 34 FT	28-34 / ST / FT	5075677	1180 34 7		411
2056W 34 VA	28-34 / V2A	5079514	1185 45 4		412
2056W 40 ALU	34-40 / AI	5437956	1184 05 9		412
2056W 40 FT	34-40 / ST / FT	5075738	1180 40 1		411
2056W 40 VA	34-40 / V2A	5079576	1185 46 2		412
2056W 46 ALU	40-46 / AI	5438014	1184 06 7		412
2056W 46 FT	40-46 / ST / FT	5075790	1180 46 0		411
2056W 46 VA	40-46 / V2A	5079637	1185 47 0		412
2056W 52 ALU	46-52 / AI	5438076	1184 07 5		412
2056W 52 FT	46-52 / ST / FT	5075851	1180 52 5		411
2056W 52 VA	46-52 / V2A	5079699	1185 48 9		412
2056W 58 ALU	52-58 / AI	5438137	1184 08 3		412
2056W 58 FT	52-58 / ST / FT	5075912	1180 58 4		411
2056W 58 VA	52-58 / V2A	5079750	1185 49 7		412
2056W 64 ALU	58-64 / AI	5438199	1184 09 1		412
2056W 64 FT	58-64 / ST / FT	5075974	1180 64 9		411
2056W 70 FT	64-70 / ST / FT	5076032	1180 68 1		411
2056W 76 FT	70-76 / ST / FT	5076094	1180 76 2		411
2056W 82 FT	76-82 / ST / FT	5076155	1180 82 7		411
2056W 90 FT	82-90 / ST / FT	5076216	1180 90 8		411
2057 M16 FT	M16/ St / FT	5033073	1193 70 8		403
2057 M20 FT	M20/ St / FT	5033134	1193 71 6		403
2057 M25 FT	M25/ St / FT	5033196	1193 72 4		403
2057 M32 FT	M32/ St / FT	5033257	1193 73 2		403
2057 M40 FT	M40/ St / FT	5033318	1193 74 0		403
2057 M50 FT	M50/ St / FT	5033370	1193 75 9		403
2057 M63 FT	M63/ St / FT	5033431	1193 76 7		403
2058 12 LGR	8-12 34/ PP	5081371	1195 12 3		415
2058 16 LGR	12-16 34/ PP	5081432	1195 16 6		415
2058 2 12 LGR	8-12 34/ PP	5082576	1196 11 1		416
2058 2 16 LGR	12-16 34/ PP	5082637	1196 16 2		416
2058 2 22 LGR	16-22 34/ PP	5082699	1196 22 7		416
2058 2 28 LGR	22-28 34/ PP	5082750	1196 28 6		416
2058 2 34 LGR	28-34 34/ PP	5082811	1196 34 0		416
2058 2 40 LGR	34-40 34/ PP	5082873	1196 40 5		416
2058 2 46 LGR	40-46 40/ PP	5082934	1196 46 4		416
2058 2 52 LGR	46-52 40/ PP	5082996	1196 52 9		416
2058 2 58 LGR	52-58 40/ PP	5083054	1196 58 8		416
2058 22 LGR	16-22 34/ PP	5081494	1195 22 0		415
2058 28 LGR	22-28 34/ PP	5081555	1195 27 1		415
2058 34 LGR	28-34 40/ PP	5081616	1195 34 4		415
2058 40 LGR	34-40 40/ PP	5081678	1195 40 9		415
2058 46 LGR	40-46 40/ PP	5081739	1195 46 8		415
2058 52 LGR	46-52 40/ PP	5081791	1195 52 2		415
2058 58 LGR	52-58 40/ PP	5081852	1195 58 1		415
2058 64 LGR	58-64 40/ PP	5081913	1195 64 6		415
2058 70 LGR	64-70 40/ PP	5081975	1195 70 0		415
2058 M2 12 FT	8-12 35/ St / FT	5441434	1199 70 6		416
2058 M2 16 FT	12-16 35/ St / FT	5441496	1199 71 4		416
2058 M2 22 FT	16-22 35/ St / FT	5441557	1199 72 2		416
2058 M2 22 V2A	16-22 35/ V2A	5847649	1196 59 7		416
2058 M2 28 FT	22-28 35/ St / FT	5441618	1199 73 0		416
2058 M2 28 V2A	22-28 35/ V2A	5847656	1196 59 9		416
2058 M2 34 FT	28-34 35/ St / FT	5441670	1199 74 9		416
2058 M2 34 V2A	28-34 35/ V2A	5847663	1196 60 1		416
2058 M2 40 FT	34-40 35/ St / FT	5441731	1199 75 7		416
2058 M2 40 V2A	34-40 35/ V2A	5847670	1196 60 3		416
2058FW 100 LGR	90-100 40/ PP	5083955	1197 99 1		415
2058FW 12 LGR	8-12 34/ PP	5083115	1197 12 6		415
2058FW 16 LGR	12-16 34/ PP	5083177	1197 16 9		415
2058FW 22 LGR	16-22 34/ PP	5083238	1197 22 3		415
2058FW 28 LGR	22-28 34/ PP	5083290	1197 28 2		415
2058FW 34 LGR	28-34 34/ PP	5083351	1197 34 7		415
2058FW 40 LGR	34-40 34/ PP	5083412	1197 40 1		415
2058FW 46 LGR	40-46 40/ PP	5083474	1197 46 0		415
2058FW 52 LGR	46-52 40/ PP	5083535	1197 52 5		415
2058FW 58 LGR	52-58 40/ PP	5083597	1197 58 4		415
2058FW 64 LGR	58-64 40/ PP	5083658	1197 64 9		415
2058FW 70 LGR	64-70 40/ PP	5083719	1197 70 3		415
2058FW 76 LGR	70-76 40/ PP	5083771	1197 76 2		415
2058FW 82 LGR	76-82 40/ PP	5083832	1197 82 7		415
2058FW 90 LGR	82-90 40/ PP	5083894	1197 90 8		415

Always indicate the item number when ordering.

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
2058FW M 12 FT	8-12 35/ St / FT	5442035	1199 84 6		415
2058FW M 12 V2A	8-12 35/ V2A	5514091	1197 13 4		415
2058FW M 16 FT	12-16 35/ St / FT	5442097	1199 85 4		415
2058FW M 16 V2A	12-16 35/ V2A	5514152	1197 17 7		415
2058FW M 22 FT	16-22 35/ St / FT	5442158	1199 86 2		415
2058FW M 22 V2A	16-22 35/ V2A	5514213	1197 23 1		415
2058FW M 28 FT	22-28 35/ St / FT	5442219	1199 87 0		415
2058FW M 28 V2A	22-28 35/ V2A	5514275	1197 29 0		415
2058FW M 34 FT	28-34 35/ St / FT	5442271	1199 88 9		415
2058FW M 34 V2A	28-34 35/ V2A	5514336	1197 35 5		415
2058FW M 40 FT	34-40 35/ St / FT	5442332	1199 89 7		415
2058FW M 40 V2A	34-40 35/ V2A	5860297	1197 42 8		415
2058FW M 46 FT	40-46 35/ St / FT	5442394	1199 90 0		415
2058FW M 46 V2A	40-46 35/ V2A	5844334	1197 47 9		415
2058FW M 52 FT	46-52 35/ St / FT	5442455	1199 91 9		415
2058FW M 52 V2A	46-52 35/ V2A	5821892	1197 53 3		415
2058FW M 58 FT	52-58 35/ St / FT	5442516	1199 92 7		415
2058FW M 58 V2A	52-58 35/ V2A	5847632	1197 59 2		415
2058FW M 64 FT	58-64 35/ St / FT	5442578	1199 93 5		415
2058FW M 64 V2A	58-64 35/ V2A	5865995	1197 60 6		415
2058FW M 70 FT	64-70 35/ St / FT	5442639	1199 94 3		415
2058FW M 8 V2A	4-8 35/ V2A	5514039	1197 09 6		415
				/100 m	
2059 2M FS	14 x 7,5/ St / FS	5037873	1103 12 1		352
2060 2M AB BK	20 x 8/ St	5039617	1106 02 3		352
2060 2M AB FS	20 x 8/ St / FS	5039730	1106 12 0		352
2060 2M FS	20 x 8/ St / FS	5039433	1105 12 4		352
2060 2M VA	20 x 8/ V2A	5627098	1105 12 5		353
2060 L 2M FS	20 x 8/ St / FS	5040095	1106 62 7		352
2060 L 2M VA	20 x 8/ V2A	5627104	1106 62 8		352
2061 2M FS	25 x 10/ St / FS	5040453	1107 12 7		353
2061 L 2M FS	25 x 10/ St / FS	5040811	1108 12 3		353
2062 2M BK	27 x 12,5/ St	5041412	1109 01 4		354
2062 2M FT	27 x 12,5/ St / FT	5041474	1109 02 2		354
2062 L 2M FT	27 x 12,5/ St / FT	5041894	1109 52 9		353
2063 2M BK	35 x 18/ ST	5043157	1112 02 3		355
2063 2M FS	35 x 18/ ST / FS	5043270	1112 12 0		355
2063 2M FT	35 x 18/ ST / FT	5043393	1112 22 8		355
2063 2M VA	35 x 18/ V2A	5627111	1110 00 5		355
2063 L 2M FS	35 x 18/ ST / FS	5632597	1112 70 8		355
2063 L 2M FT	35 x 18/ ST / FT	5632535	1112 75 9		355
2063 L 2M VA	35 x 18/ V2A	5627128	1112 70 9		355
2064 GTP 2M	1,5/ ST / GTP	5044291	1115 05 7		390
2064 GTPL 2M	1,5/ ST / GTP	5044352	1115 06 5		390
				/100 pc.	
2065 N M4 G	M4/ St / G	5051497	1133 02 0		369
				/100 m	
2066 2M F	25 x 12/ St / F	5046516	1117 02 5		353
2066 2M FS	25 x 12/ St / FS	5046578	1117 03 3		353
2066 2M VA	25 x 12/ V2A	5046639	1117 06 8		353
2068 2M BK	35 x 18/ ST	5046936	1118 02 1		356
2068 2M FS	35 x 18/ ST / FS	5047179	1118 22 6		356
2068 2M FT	35 x 18/ ST / FT	5047056	1118 12 9		356
2068 L 1M FT	35 x 18/ ST / FT	5053958	1119 67 2		356
				/100 pc.	
2068 L 200 FT	35 x 18/ ST / FT	5060673	1119 69 6		356
				/100 m	
2068 L 2M FS	35 x 18/ St / FS	5864318	1119 64 8		356
2068 L 2M FT	35 x 18/ ST / FT	5047599	1119 65 6		356
2068 L 2M FTSO	35 x 18/ St / FT	5204138	1119 67 0		356
2068 L 2M VA	35 x 18/ V2A	5047650	1119 70 2		356
				/100 pc.	
2068 L 300 FT	35 x 18/ ST / FT	5060611	1119 69 3		356
2068 L 400 FT	35 x 18/ ST / FT	5060376	1119 69 0		356
2068 L 500 FT	35 x 18/ ST / FT	5060253	1119 68 7		356
2068 L 600 FT	35 x 18/ ST / FT	5059417	1119 68 4		356
				/100 m	
2068 L 6M VA	35 x 18/ V2A	5047711	1119 72 9		356
				/100 pc.	
2068 L 700 FT	35 x 18/ ST / FT	5059356	1119 68 1		356
2068 L 800 FT	35 x 18/ ST / FT	5059295	1119 67 8		356
				/100 m	
2069 15 1.5 GTP	1,5/ St / GTP	5044833	1115 42 1		389
2069 15 1.5 GTPL	1,5/ St / GTP	5044895	1115 45 6		389
2069 15 2.2 GTP	2,25/ St / GTP	5045076	1115 55 3		389
2069 15 2.2 GTPL	2,25/ St / GTP	5045199	1115 59 6		389

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 m	
2069 1M FS	1/ St / FS	5045557	1115 67 7		389
2069 1M GTP	1/ St / GTP	5045618	1115 68 5		389
2069 2M BK	1/ St	5045250	1115 61 8		389
2069 2M FS	1/ St / FS	5045311	1115 62 6		389
2069 2M GTP	1/ St / GTP	5045434	1115 65 0		389
2069 2M GTPL	1/ ST / GTP	5045496	1115 66 9		389
2069 3M BK	1/ St	5871453	1115 85 5		389
2069 L 2M FS	1/ St / FS	5045977	1115 80 4		389
				/100 pc.	
2069 T100 GTP	118/ St / GTP	5440994	1115 38 2		170
2069 T160 GTP	157/ St / GTP	5441007	1115 38 4		170
2069 T250 GTP	206/ St / GTP	5441038	1115 38 6		170
2069 T350 GTP	245/ St / GTP	5441045	1115 38 8		170
2069 T60 GTP	89/ St / GTP	5440987	1115 38 0		170
2070 M6 G	12-20 M5 x 14/ St / G	5120735	1380 02 8		297
2071 M6 G	20-30 M5 x 20/ St / G	5120858	1380 22 2		297
2072 M6 G	30-44 M5 x 22/ St / G	5120971	1380 42 7		297
2073 M6 G	44-60 M6 x 25/ St / G	5121152	1380 72 9		297
2078 M10 1M G	M10 10/ St / G	5253396	3141 20 9		428
2078 M10 1M V2A	M10 10/ V2A	5023579	3141 31 2		428
2078 M10 2M G	M10 10/ ST / G	5123583	3141 14 0		428
2078 M10 3M G	M10 10/ St / G	5895152	3141 23 3		428
2078 M12 1M G	M12 12/ St / G	5253457	3141 30 6		428
2078 M12 1M V2A	M12 12/ V2A	5594437	3141 31 4		428
2078 M12 2M G	M12 12/ ST / G	5123644	3141 14 4		428
2078 M6 1M G	M6 6/ St / G	5253211	3141 04 7		428
2078 M8 1M G	M8 8/ St / G	5253334	3141 12 8		428
2078 M8 1M V2A	M8 8/ V2A	5023456	3141 31 0		428
2078 M8 2M G	M8 8/ ST / G	5119982	3141 13 6		428
2078 M8 3M G	M8 8/ St / G	5374671	3141 13 8		428
2081 K M6	M6 1,6/ St / G	5305958	3460 06 1		430
2081 M6 G	M6 1,35/ St / G	5306078	3460 16 9		429
2083 M6 G	M6 4,5/ St / G	5306498	3462 06 4		430
2083 M8 G	M8 5,5/ St / G	5306559	3462 08 0		430
2084 K M6	M6 1,15/ Zn / G	5307150	3463 06 0		431
2084 M6 G	M6 1,15/ Zn / G	5307211	3463 56 7		430
2084 M8 G	M8 1,15/ Zn / G	5307273	3463 58 3		430
2085 M6 G	M6 1,1/ Zn / G	5307334	3464 06 7		431
2085 M8 G	M8 1,1/ Zn / G	5307396	3464 08 3		431
				/100 m	
2100 FT	46 x 24/ ST / FT	5047773	1120 20 4		357
2110 FT	56 x 30/ ST / FT	5048732	1121 22 7		357
				/pc.	
2392	Light grey/ PA/GF	6027132	6024 00 9		197
2393 UP	Light grey/ PA	6027439	6024 10 6		197
				/100 pc.	
2900 M6 13-16 G	13,5-16 M 16/ St / G	5121336	1383 09 4		297
2900 M6 16-19 G	16,5-19 Pg 11/ St / G	5121398	1383 11 6		297
2900 M6 18-21 G	18-21 M 20/ St / G	5121459	1383 13 2		297
2900 M6 19-23 G	19-23 PG 16/ St / G	5121510	1383 16 7		297
2900 M6 24-29 G	24-29 M 25/ St / G	5121572	1383 21 3		297
2900 M6 30-34 G	33-38 Pg 29/ St / G	5121633	1383 29 9		297
2900 M6 33-38 G	30-34 M 32/ St / G	5569176	1383 31 0		297
2900 M6 39-42 G	39-42 M 40/ St / G	5569237	1383 41 8		297
2900 M6 43-48 G	43-48 Pg 36/ St / G	5121695	1383 36 1		297
2900 M6 49-55 G	49-55 M 50/ St / G	5121756	1383 42 6		297
2900 M6 54-60 G	54-60 Pg 48/ St / G	5121817	1383 48 5		297
2900 M6 61-64 G	61-64 M 63/ St / G	5569299	1383 50 7		297
2900WM10 139FTSO	130-140 5"/ St / FT	5544937	1388 42 8		299
2900WM10 21.5 FT	19-21,5 1/2"/ St / FT	5124450	1388 03 7		299
2900WM10 27 FT	24,5-27 3/4"/ St / FT	5124511	1388 05 3		299
2900WM10 33.5 FT	30,5-33,5 1"/ St / FT	5124573	1388 06 1		299
2900WM10 48 FT	45,5-48,5 1 1/2"/ St / FT	5124696	1388 11 8		299
2900WM10 60 FT	56-60 2"/ St / FT	5124757	1388 13 4		299
2900WM10 75 FTSO	75,5 2 1/2"/ St / FT	5544814	1388 37 1		299
2900WM10 88 FTSO	83-88 3"/ St / FT	5544876	1388 39 8		299
2900WM6 13.5 FT	12,5-13,5 1/4"/ St / FT	5122838	1385 00 3		298
2900WM6 17 FT	16-17 3/8"/ St / FT	5122890	1385 01 1		298
2900WM6 21.5 FT	19-21,5 1/2"/ St / FT	5122951	1385 03 8		298
2900WM6 27 FT	24,5-27 3/4"/ St / FT	5123019	1385 05 4		298

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Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

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				/100 pc.	
2900WM6 33.5 FT	30,5-33,5 1"/ St / FT	5123071	1385 06 2		298
2900WM6 42.5 FT	39,5-42,5 1 1/4"/ St / FT	5123132	1385 08 9		298
2900WM6 48.5 FT	45,5-48,5 1 1/2"/ St / FT	5123194	1385 11 9		298
2900WM6 54 FT	51-54 1 3/4"/ St / FT	5123255	1385 12 7		298
2900WM6 60 FT	56-60 2"/ St / FT	5123316	1385 13 5		298
2900WM8 17 FT	16-17 3/8"/ St / FT	5123675	1387 01 4		298
2900WM8 21.5 FT	19-21,5 1/2"/ St / FT	5123736	1387 03 0		298
2900WM8 27 FT	24,5-27 3/4"/ St / FT	5123798	1387 05 7		298
2900WM8 33.5 FT	30,5-33,5 1"/ St / FT	5123859	1387 06 5		298
2900WM8 42.5 FT	39,5-42,5 1 1/4"/ St / FT	5123910	1387 08 1		298
2900WM8 48.5 FT	45,5-48,5 1 1/2"/ St / FT	5123972	1387 11 1		298
2900WM8 60 FT	56-60 2"/ St / FT	5124030	1387 13 8		298
2900WM8 75.5 FT	71,5-75,5 2 1/2"/ St / FT	5124092	1387 15 4		298
2900WM8 88 FT	83-88 3"/ St / FT	5124153	1387 17 0		298
				/pc.	
2953 B M16 LGR	M16 Light grey/ PVC	5510130	2153 86 4		334
2953 B M16 RW	M16 Pure white/ PVC	5538998	2153 98 0		334
2953 B M20 LGR	M20 Light grey/ PVC	5469452	2153 86 6		334
2953 B M20 RW	M20 Pure white/ PVC	5539056	2153 98 2		334
2953 B M25 LGR	M25 Light grey/ PVC	5510192	2153 86 8		334
2953 B M25 RW	M25 Pure white/ PVC	5539117	2153 98 4		334
2953 B M32 LGR	M32 Light grey/ PVC	5510253	2153 87 0		334
2953 B M32 RW	M32 Pure white/ PVC	5539179	2153 98 6		334
2953 M M16 LGR	M16 Light grey/ PVC	5509950	2153 82 9		334
2953 M M16 RW	M16 Pure white/ PVC	5538752	2153 97 1		334
2953 M M20 LGR	M20 Light grey/ PVC	5469391	2153 83 1		334
2953 M M20 RW	M20 Pure white/ PVC	5538813	2153 97 3		334
2953 M M25 LGR	M25 Light grey/ PVC	5510017	2153 83 3		334
2953 M M25 RW	M25 Pure white/ PVC	5538875	2153 97 5		334
2953 M M32 LGR	M32 Light grey/ PVC	5510079	2153 83 5		334
2953 M M32 RW	M32 Pure white/ PVC	5538936	2153 97 7		334
				/100 m	
2953 M16 LGR	M16 Light grey/ PVC	5028093	2153 90 4		334
2953 M16 RW	M16 Pure white/ PVC	5538578	2153 96 0		334
2953 M20 LGR	M20 Light grey/ PVC	5027799	2153 91 2		334
2953 M20 RW	M20 Pure white/ PVC	5538639	2153 96 3		334
2953 M25 LGR	M25 Light grey/ PVC	5025214	2153 92 0		334
2953 M25 RW	M25 Pure white/ PVC	5531739	2153 96 6		334
2953 M32 LGR	M32 Light grey/ PVC	5025153	2153 93 9		334
2953 M32 RW	M32 Pure white/ PVC	5538691	2153 96 9		334
				/pc.	
2953 T M16 LGR	M16 Light grey/ PVC	5510314	2153 87 2		335
2953 T M16 RW	M16 Pure white/ PVC	5539230	2153 99 2		335
2953 T M20 LGR	M20 Light grey/ PVC	5469575	2153 87 4		335
2953 T M20 RW	M20 Pure white/ PVC	5539292	2153 99 4		335
2953 T M25 LGR	M25 Light grey/ PVC	5510376	2153 87 6		335
2953 T M25 RW	M25 Pure white/ PVC	5539599	2153 99 6		335
2953 T M32 LGR	M32 Light grey/ PVC	5510437	2153 87 8		335
2953 T M32 RW	M32 Pure white/ PVC	5539650	2153 99 8		335
2954 M16 LGR	M16 Light grey/ PVC	5482895	2154 50 1		335
2954 M20 LGR	M20 Light grey/ PVC	5483014	2154 52 8		335
2954 M25 LGR	M25 Light grey/ PVC	5483076	2154 53 6		335
2954 M32 LGR	M32 Light grey/ PVC	5483137	2154 54 4		335
				/100 pc.	
2955 F M16 RW	M16 Pure white/ PP	5585671	2149 35 1		268
2955 F M16 STGR	M16 Stone grey/ PP	5584353	2149 30 3		268
2955 F M20 RW	M20 Pure white/ PP	5586036	2149 35 7		268
2955 F M20 STGR	M20 Stone grey/ PP	5585251	2149 30 9		268
2955 F M25 RW	M25 Pure white/ PP	5586159	2149 36 3		268
2955 F M25 STGR	M25 Stone grey/ PP	5585312	2149 31 5		268
2955 F M32 RW	M32 Pure white/ PP	5586395	2149 36 9		268
2955 F M32 STGR	M32 Stone grey/ PP	5585435	2149 32 1		268
2955 F M40 RW	M40 Pure white/ PP	5586456	2149 37 5		268
2955 F M40 STGR	M40 Stone grey/ PP	5585497	2149 32 7		268
2955 F M50 RW	M50 Pure white/ PP	5587835	2149 38 1		268
2955 F M50 STGR	M50 Stone grey/ PP	5585558	2149 33 3		268
2955 F M63 STGR	M63 Stone grey/ PP	5585619	2149 33 9		268
2955 M16	M16 Light grey/ PP	5583219	2149 00 4		268
2955 M16 SW	M16 Jet black/ PP	5616276	2149 55 9		268
2955 M20	M20 Light grey/ PP	5583936	2149 01 0		268
2955 M20 SW	M20 Jet black/ PP	5616337	2149 56 3		268
2955 M25	M25 Light grey/ PP	5583998	2149 01 6		268
2955 M25 SW	M25 Jet black/ PP	5616399	2149 56 7		268
2955 M32	M32 Light grey/ PP	5584056	2149 02 2		268
2955 M32 SW	M32 Jet black/ PP	5616450	2149 57 1		268
2955 M40	M40 Light grey/ PP	5584292	2149 02 8		268
2955 M40 SW	M40 Jet black/ PP	5616511	2149 57 5		268
2955 M50	M50 Light grey/ PP	5588191	2149 03 4		268
2955 M50 SW	M50 Jet black/ PP	5616993	2149 57 9		268
2955 M63	M63 Light grey/ PP	5588252	2149 04 0		268
2955 M63 SW	M63 Jet black/ PP	5617051	2149 58 3		268

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				/100 pc.	
2957 M16	M16 Light grey/ ABS/ASA	5931911	2149 70 1		269
2957 M19-20	M19-20 Light grey/ ABS/ASA	5931928	2149 71 0		269
2960 11 M6 LGR	9-11 Light grey/ PS	5196990	2130 11 4		278
2960 12 M6 LGR	12-13 Light grey/ PS	5197058	2130 12 2		278
2960 15 M6 LGR	15-17 Light grey/ PS	5197119	2130 15 7		278
2960 18 M6 LGR	16,5-18 Light grey/ PS	5197171	2130 18 1		278
2960 22 M6 LGR	20,5-22 Light grey/ PS	5197232	2130 21 1		278
2960 25 M6 LGR	22,5-25 Light grey/ PS	5197294	2130 25 4		278
2960 28 M6 LGR	25,5-28 Light grey/ PS	5197355	2130 28 9		278
2960 35 M6 LGR	31,5-35 Light grey/ PS	5197416	2130 35 1		278
2960 40 M6 LGR	36,5-40 Light grey/ PS	5197478	2130 40 8		278
2960 43 M6 LGR	40,5-43 Light grey/ PS	5197539	2130 43 2		278
2960 47 M6 LGR	45,5-47 Light grey/ PS	5197591	2130 47 5		278
2960 54 M6 LGR	50,5-54 Light grey/ PS	5197652	2130 54 8		278
2962 10 LGR	10 Light grey/ PP	5199090	2140 10 1		279
2962 12 LGR	12 Light grey/ PP	5199151	2140 12 8		279
2962 15 LGR	14-15 Light grey/ PP	5199212	2140 15 2		279
2962 18 LGR	16-18 Light grey/ PP	5199274	2140 18 7		279
2962 22 LGR	19-22 Light grey/ PP	5199335	2140 23 3		279
2962 28 LGR	25-28 Light grey/ PP	5199397	2140 28 4		279
2962 2X10	10 + 10 Light grey/ PP	5199694	2140 60 8		280
2962 2x1514/15	+ 14/15 Light grey/ PP	5199878	2140 65 9		280
2962 2x1615/16	+ 15/16 Light grey/ PP	5199939	2140 68 3		280
2962 2x2218/22	+ 18/22 Light grey/ PP	5199991	2140 72 1		280
2962 35 LGR	32-35 Light grey/ PP	5199458	2140 35 7		279
2962 42 LGR	40-42 Light grey/ PP	5199519	2140 41 1		279
2962 6 LGR	6 Light grey/ PP	5198970	2140 06 3		279
2962 8 LGR	8 Light grey/ PP	5199038	2140 07 1		279
				/100 m	
2985 GR		5230113	2357 05 4		299
				/100 pc.	
2989 M6 G	M6 1,5/ St / G	5306191	3460 76 2		430
2989 M8 G	M8 1,5/ St / G	5306252	3460 78 9		430
2990 M6 G	M6 3,5/ ST / G	5306979	3462 86 2		430
2990 M8 G	M8 3,5/ ST / G	5307037	3462 88 9		430
3015 12 LGR	6-12 M4 x 22/ PS	5206897	2157 12 8		279
3015 17 LGR	10-17 M4 x 25/ PS	5206958	2157 17 9		279
3015 24 LGR	17-24 M4 x 30/ PS	5207016	2157 24 1		279
3015 34 LGR	24-34 M5 x 35/ PS	5207078	2157 34 9		279
3019 M6 LGR	6-12 M4 x 22/ PS	5207139	2158 12 4		279
3020 LGR	10-17 M4 x 25/ PS	5207191	2158 17 5		279
3021 LGR	17-24 M4 x 30/ PS	5207252	2158 24 8		279
3022 LGR	24-34 M5 x 35/ PS	5207313	2158 34 5		279
3030 2	7-11 Light grey/ PS	5213017	2213 11 7		281
3040 2	6-16 Light grey/ PS	5195610	2107 01 5		277
3040 3	6-16 Light grey/ PS	5195795	2109 01 8		277
3040 LGR	6-16 Light grey/ PS	5195436	2105 01 2		277
3041 2	16-24 Light grey/ PS	5195672	2107 03 1		277
3041 LGR	16-24 Light grey/ PS	5195498	2105 03 9		277
3042 LGR	24-34 Light grey/ PS	5195559	2105 05 5		277
3050 2 6-16	6-16 Light grey/ PS	5196211	2115 01 8		276
3050 2 6-16	6-16 Light grey/ PS	5196211	2115 01 8		276
3050 LGR	6-16 Light grey/ PS	5195252	2101 01 7		276
3051 LGR	14-24 Light grey/ PS	5195313	2101 03 3		276
3052 LGR	24-34 Light grey/ PS	5195375	2101 06 8		276
3079 LGR	5-14 M5 x 14/ PS	5196570	2124 14 9		277
3080 2 LGR	6-17 M6 x 18/ PS	5196877	2124 49 1		278
3080 LGR	6-17 M6 x 18/ PS	5196631	2124 17 3		277
3081 LGR	15-25 M8 x 23/ PS	5196693	2124 25 4		277
3082 LGR	24-34 M8 x 23/ PS	5196754	2124 34 3		277
3083 LGR	32-45 M8 x 40/ UF	5196815	2124 45 9		278
3100 M6 G	M6 8/ St / G	5250272	3131 06 8		428

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3100 M8 G	M8 10/ St / G	5250333	3131 08 4		428
4014 G	M4/ St / G	5052579	1137 22 0		369
4014 N G	M4/ St / G	5052517	1137 21 2		369
4014 N M.S. G	M4/ St / G	5052395	1137 01 8		369
4021 K 6-13	6-13 4-9 / St / FS	5224419	2307 61 8		319
4021 K 6-13 V4A	6-13 4-9 / V4A	5901853	2307 62 2		319
4021 K 9-16	9-16 4-9 / St / FS	5224471	2307 63 4		319
4021 K 9-16 V4A	9-16 4-9 / V4A	5901860	2307 63 8		319
4024 16-23	16-23 5-10 / PS	5224358	2305 23 2		318
4024 9-16	9-16 3-8 / PS	5224297	2305 15 1		318
4028	2-4 Light grey/ PP	5213130	2215 04 7		281
4029	4-7 Light grey/ PP	5213192	2215 07 1		281
4030	7-11 Light grey/ PP	5213253	2215 10 1		281
4031 10-14	10-14 Light grey/ PP	5213314	2215 14 4		281
4031 14-17	14-17 Light grey/ PP	5213376	2215 17 9		281
4032	16-20 Light grey/ PP	5213437	2215 20 9		281
4039	2-4-7 / PP	5213550	2215 30 6		282
4039 SP	2-4-7 / PP	5599777	2214 87 3		282
4040	2-7-12 / PP	5213611	2215 31 4		282
4040 SP	2-7-12 / PP	5599838	2214 88 1		282
4041	2-10-14 / PP	5213796	2215 34 9		282
4042	2-14-17 / PP	5213673	2215 32 2		282
4043	2-17-21 / PP	5213734	2215 33 0		282
4044	2-21-25 / PP	5213857	2215 35 7		282
4758 3.5x15	15 3,5/ ST / GGP	5274759	3195 00 7		431
4758 3.5x20	20 3,5/ ST / GGP	5274810	3195 01 5		431
4758 3.5x25	25 3,5/ ST / GGP	5274872	3195 02 3		431
4758 3.5x30	30 3,5/ ST / GGP	5274933	3195 03 1		431
4758 3.5x35	35 3,5/ ST / GGP	5274995	3195 05 8		431
4758 3.5x40	40 3,5/ ST / GGP	5275053	3195 06 6		431
4758 3.5x45	45 3,5/ ST / GGP	5275114	3195 07 4		431
4758 3.5x50	50 3,5/ ST / GGP	5275176	3195 08 2		431
4758 4.0X15	15 4/ ST / GGP	5275237	3195 20 1		431
4758 4.0X20	20 4/ ST / GGP	5275299	3195 22 8		431
4758 4.0X25	25 4/ ST / GGP	5275350	3195 23 6		431
4758 4.0X30	30 4/ ST / GGP	5275411	3195 24 4		431
4758 4.0X35	35 4/ ST / GGP	5275473	3195 25 2		431
4758 4.0X40	40 4/ ST / GGP	5275534	3195 26 0		431
4758 4.0X45	45 4/ ST / GGP	5275596	3195 27 9		431
4758 4.0X50	50 4/ ST / GGP	5275657	3195 28 7		431
4758 4.5x25	25 4,5/ ST / GGP	5275718	3195 42 2		431
4758 4.5x30	30 4,5/ ST / GGP	5275770	3195 43 0		431
4758 4.5x35	35 4,5/ ST / GGP	5275831	3195 44 9		431
4758 4.5x40	40 4,5/ ST / GGP	5275893	3195 45 7		431
4758 4.5x45	45 4,5/ ST / GGP	5275954	3195 46 5		431
4758 4.5x50	50 4,5/ ST / GGP	5276012	3195 47 3		431
4758 5.0X30	30 5/ ST / GGP	5276074	3195 63 5		431
4758 5.0X35	35 5/ ST / GGP	5276135	3195 64 3		431
4758 5.0X40	40 5/ ST / GGP	5276197	3195 65 1		431
4758 5.0X45	45 5/ ST / GGP	5276258	3195 67 8		431
4758 5.0X50	50 5/ ST / GGP	5276319	3195 68 6		431
4758 5.0X60	60 5/ ST / GGP	5321019	3195 69 4		431
4758 6.0X30	30 6/ ST / GGP	5682875	3195 91 0		431
4758 6.0X40	40 6/ ST / GGP	5682813	3195 92 9		431
4758 6.0X50	50 6/ ST / GGP	5682752	3195 93 7		431
4758 6.0X60	60 6/ ST / GGP	5682691	3195 94 5		431
4758T 3.5x15	15 3,5/ ST / GGP	5552017	3198 01 6		432
4758T 3.5x20	20 3,5/ ST / GGP	5552079	3198 01 8		432
4758T 3.5x25	25 3,5/ ST / GGP	5552130	3198 02 0		432
4758T 3.5x30	30 3,5/ ST / GGP	5552192	3198 02 2		432
4758T 3.5x35	35 3,5/ ST / GGP	5552253	3198 02 4		432
4758T 3.5x40	40 3,5/ ST / GGP	5552314	3198 02 6		432
4758T 4.0x15	15 4/ ST / GGP	5552376	3198 03 0		432
4758T 4.0x20	20 4/ ST / GGP	5552437	3198 03 2		432
4758T 4.0x25	25 4/ ST / GGP	5555438	3198 03 4		432
4758T 4.0x30	30 4/ ST / GGP	5555551	3198 03 6		432
4758T 4.0x35	35 4/ ST / GGP	5557111	3198 03 8		432
4758T 4.0x40	40 4/ ST / GGP	5557418	3198 04 0		432
4758T 4.0x45	45 4/ ST / GGP	5558132	3198 04 2		432
4758T 4.0x50	50 4/ ST / GGP	5558378	3198 04 4		432
4758T 4.5x30	30 4,5/ ST / GGP	5558491	3198 05 4		432
4758T 4.5x35	35 4,5/ ST / GGP	5558972	3198 05 6		432
4758T 4.5x40	40 4,5/ ST / GGP	5559030	3198 05 8		432
4758T 4.5x45	45 4,5/ ST / GGP	5560296	3198 06 0		432
4758T 4.5x50	50 4,5/ ST / GGP	5560357	3198 06 2		432
4758T 5.0x30	30 5/ ST / GGP	5628750	3198 07 3		432
4758T 5.0x35	35 5/ ST / GGP	5628873	3198 07 5		432
4758T 5.0x40	40 5/ ST / GGP	5628996	3198 07 7		432
4758T 5.0x45	45 5/ ST / GGP	5785835	3198 07 9		432
4758T 5.0x50	50 5/ ST / GGP	5785897	3198 08 1		432
4759 3.5x25	25 3,5/ St / GGP	5271932	3192 11 3		432
4759 3.5x30	30 3,5/ St / GGP	5271994	3192 12 1		432
4759 3.5x35	35 3,5/ St / GGP	5272052	3192 14 8		432
4759 3.5x40	40 3,5/ St / GGP	5272113	3192 15 6		432
4759 3.5x45	45 3,5/ St / GGP	5272175	3192 16 4		432
4759 3.5x50	50 3,5/ St / GGP	5272236	3192 17 2		432
4759 4.0X25	25 4/ St / GGP	5272298	3192 21 0		432
4759 4.0X30	30 4/ St / GGP	5272359	3192 22 9		432
4759 4.0X35	35 4/ St / GGP	5272410	3192 23 7		432
4759 4.0X40	40 4/ St / GGP	5272472	3192 24 5		432
4759 4.0X45	45 4/ St / GGP	5272533	3192 25 3		432
4759 4.0X50	50 4/ St / GGP	5272595	3192 26 1		432
4759 4.5x30	30 4,5/ St / GGP	5272717	3192 33 4		432
4759 4.5x35	35 4,5/ St / GGP	5272779	3192 34 2		432
4759 4.5x40	40 4,5/ St / GGP	5272830	3192 35 0		432
4759 4.5x45	45 4,5/ St / GGP	5272892	3192 36 9		432
4759 4.5x50	50 4,5/ St / GGP	5272953	3192 37 7		432
4759 5.0X30	30 5/ St / GGP	5273011	3192 41 5		432
4759 5.0X35	35 5/ St / GGP	5273073	3192 42 3		432
4759 5.0X40	40 5/ St / GGP	5273134	3192 43 1		432
4759 5.0X45	45 5/ St / GGP	5273196	3192 45 8		432
4759 5.0X50	50 5/ St / GGP	5273257	3192 46 6		432
4759 6.0X40	40 6/ St / GGP	5682578	3192 62 8		432
4759 6.0X50	50 6/ St / GGP	5682516	3192 63 6		432
4759 6.0X60	60 6/ St / GGP	5682455	3192 64 4		432
4759T 3.0x15	15 3/ St / GGP	5797593	3198 19 3		433
4759T 3.0x25	25 3/ St / GGP	5797777	3198 19 7		433
4759T 3.0x30	30 3/ St / GGP	5797951	3198 19 9		433
4759T 3.5x15	15 3,5/ St / GGP	5560470	3198 21 9		433
4759T 3.5x20	20 3,5/ St / GGP	5560531	3198 22 1		433
4759T 3.5x25	25 3,5/ St / GGP	5561132	3198 22 3		433
4759T 3.5x30	30 3,5/ St / GGP	5561378	3198 22 5		433
4759T 3.5x35	35 3,5/ St / GGP	5561439	3198 22 7		433
4759T 3.5x40	40 3,5/ St / GGP	5561552	3198 22 9		433
4759T 3.5x50	50 3,5/ St / GGP	5561972	3198 23 1		433
4759T 4.0x15	15 4/ St / GGP	5785958	3198 23 7		433
4759T 4.0x20	20 4/ St / GGP	5562511	3198 23 9		433
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4759T 4.0x30	30 4/ St / GGP	5563112	3198 24 3		433
4759T 4.0x35	35 4/ St / GGP	5786016	3198 24 5		433
4759T 4.0x40	40 4/ St / GGP	5786078	3198 24 7		433
4759T 4.0x45	45 4/ St / GGP	5787457	3198 24 9		433
4759T 4.0x50	50 4/ St / GGP	5787877	3198 25 1		433
4759T 4.5x30	30 4,5/ St / GGP	5790037	3198 26 0		433
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4759T 4.5x40	40 4,5/ St / GGP	5791294	3198 26 4		433
4759T 4.5x45	45 4,5/ St / GGP	5791539	3198 26 6		433
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4759T 5.0x50	50 5/ St / GGP	5792550	3198 28 4		433
5015 M5 OS G	M5/ St / G	5053118	1141 05 8		369
5015 M6 OS G	M6/ St / G	5053170	1141 06 6		369
5015 M6 OS VA	M6/ V2A	5053231	1141 10 4		369
5016 M5 OS G	M5/ St / G	5053293	1142 05 4		370
5016 M6 OS G	M6/ St / G	5053354	1142 06 2		370
5017 M10 OS VA	M10/ V4A	5086017	1143 12 7		370
5017 M6 OS G	M6/ ST / G	5053415	1143 06 9		370
5017 M6 OS VA	M6/ V4A	5119920	1143 12 3		370
5017 M8 OS VA	M8/ V4A	5085980	1143 12 5		370
5019 M10 OS G	M10 10/ ST / G	5053835	1144 13 8		349
5019 M10 OS G	M10 10/ ST / G	5053835	1144 13 8		370
5019 M6 OS G	M6 6/ ST / G	5053712	1144 10 3		349
5019 M6 OS G	M6 6/ ST / G	5053712	1144 10 3		370
5019 M8 OS G	M8 8/ ST / G	5053774	1144 11 1		349
5019 M8 OS G	M8 8/ ST / G	5053774	1144 11 1		370
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5020 M8X25 FT	M8 25/ St / FT	5055754	1149 21 0		372
5021 M10x40 FT	M10 40/ St / FT	5056959	1150 45 6		372
5021 M6X25 FT	M6 25/ St / FT	5056232	1150 01 4		372
5021 M8X20 FT	M8 20/ St / FT	5056478	1150 20 0		372
5021 M8X25 FT	M8 25/ St / FT	5056539	1150 21 9		372
5021 M8X40 FT	M8 40/ St / FT	5056713	1150 24 3		372
5022 M10x25 F	M10 25/ ST / F	5057499	1151 40 1		372
5022 M10x30 F	M10 30/ ST / F	5057550	1151 42 8		372
5022 M10x40 F	M10 40/ ST / F	5057673	1151 44 4		372
5022 M12x30 G	M12 30/ ST / G	5057796	1151 62 2		372
5022 M12x40 G	M12 40/ ST / G	5057918	1151 64 9		372
5022 M6X25 F	M6 25/ ST / F	5057017	1151 01 0		372
5022 M6X30 F	M6 30/ ST / F	5057079	1151 02 9		372
5022 M8X25 F	M8 25/ ST / F	5057253	1151 21 5		372
5022 M8X30 F	M8 30/ ST / F	5057314	1151 22 3		372
5022 M8X40 F	M8 40/ ST / F	5057437	1151 25 8		372
5023 M10x30 G	M10 30/ ST / G	5058335	1153 41 2		373
5023 M10x30 V4A	M10 30/ V4A	5907909	1153 46 2		373
5023 M10x35 G	M10 35/ ST / G	5058397	1153 42 0		373
5023 M10x35 V4A	M10 35/ V4A	5907916	1153 46 5		373
5023 M10x40 G	M10 40/ ST / G	5058458	1153 43 9		373
5023 M10x40 V4A	M10 40/ V4A	5907923	1153 54 3		373
5023 M12x30 G	M12 30/ ST / G	5058755	1153 61 7		373
5023 M12x30 V4A	M12 30/ V4A	5907961	1153 71 3		373
5023 M12x35 G	M12 35/ ST / G	5058816	1153 62 5		373
5023 M12x35 V4A	M12 35/ V4A	5907978	1153 72 0		373
5023 M12x40 G	M12 40/ ST / G	5058878	1153 63 3		373
5023 M12x40 V4A	M12 40/ V4A	5907985	1153 74 8		373
5023 M12x50 G	M12 50/ ST / G	5058939	1153 64 1		373
5023 M12x50 V4A	M12 50/ V4A	5907992	1153 75 3		373
5024 M10x30 G	M10 30/ ST / G	5059714	1154 41 9		373
5024 M10x30 V4A	M10 30/ V4A	5908081	1154 50 7		374
5024 M10x35 G	M10 35/ ST / G	5059776	1154 42 7		373
5024 M10x35 V4A	M10 35/ V4A	5908098	1154 51 6		374
5024 M10x40 G	M10 40/ ST / G	5059837	1154 43 5		373
5024 M10x40 V4A	M10 40/ V4A	5908104	1154 52 3		374
5024 M12x30 G	M12 30/ ST / G	5060017	1154 60 5		373
5024 M12x30 V4A	M12 30/ V4A	5908203	1154 70 1		374
5024 M12x35 G	M12 35/ ST / G	5060079	1154 61 3		373
5024 M12x35 V4A	M12 35/ V4A	5908210	1154 71 5		374
5024 M12x40 G	M12 40/ ST / G	5060130	1154 62 1		373
5024 M12x40 V4A	M12 40/ V4A	5908227	1154 72 8		374
5024 M12x50 G	M12 50/ ST / G	5060192	1154 64 8		373
5024 M12x50 V4A	M12 50/ V4A	5908265	1154 73 6		374
5024 M6x30 FT	M6 30/ St / FT	5483694	1154 40 3		373
5024 M6x30 V4A	M6 30/ V4A	5908043	1154 40 9		374
5026 M6X20 G	M6 20/ ST / G	5057970	1151 70 3		349
5026 M6X20 G	M6 20/ ST / G	5057970	1151 70 3		372
5026 M8X25 G	M8 25/ ST / G	5058038	1151 71 1		349
5026 M8X25 G	M8 25/ ST / G	5058038	1151 71 1		372
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5050 20x1.5 BK	20 x 1.5 200/ St	5549079	1465 60 0		315
5050 20X3 3M FT	20 x 3/ ST / FT	5137597	1465 76 7		315
5050 25X3 3MFT	25 x 3/ ST / FT	5137658	1465 77 5		315
5050 25X3 FT	25 x 3 120/ St / FT	5136811	1465 10 4		315
5050 30X3 3M FT	30 x 3/ ST / FT	5137719	1465 79 1		315
5050 30X3 FT	30 x 3 120/ St / FT	5136934	1465 14 7		315
5050 30X4 3M FT	30 x 4/ ST / FT	5137771	1465 80 5		315
5050 30X4 FT	30 x 4 100/ St / FT	5136996	1465 16 3		315
5050 40X4 3M FT	40 x 4/ ST / FT	5137832	1465 82 1		315
5050 40X4 FT	40 x 4 80/ St / FT	5137054	1465 19 8		315
5050 SB30x3 FT	30 x 3/ ST / FT	5137955	1466 26 7		315
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5055 I12 FS	12 x 1/ ST / FS	5138310	1470 12 4		321
5055 I12 V4A	12 x 1/ V4A	5900887	1470 12 9		321
5055 II17 FS	17 x 1/ ST / FS	5138372	1470 17 5		321
5055 II17 V4A	17 x 1/ V4A	5900894	1470 18 0		321
5055 III26 FS	26 x 1.2/ ST / FS	5138433	1470 26 4		321
5055 III26 V4A	26 x 1.2/ V4A	5900900	1470 27 0		321
5055 L PE I 14	13 x 3/ ST / FS	5139393	1473 22 0		322
5055 L PE II 19	19 x 3/ ST / FS	5139454	1473 27 1		322
5055 L PE III 28	28 x 3.7/ ST / FS	5139515	1473 36 0		322
5055 LI12 FS	12 x 0.75/ ST / FS	5138679	1471 12 0		321
5055 LI12 V4A	12 x 0.75/ V4A	5900931	1471 12 6		321
5055 LII17 FS	17 x 0.75/ ST / FS	5138730	1471 17 1		321
5055 LII17 V4A	17 x 0.75/ V4A	5900948	1471 17 7		321
5055 LIII26 26	26 x 1/ ST / FS	5138792	1471 26 0		321
5055 LIII26 V4A	26 x 1/ V4A	5900955	1471 26 6		321
5062 I12 FS	12 x 1/ St / FS	5139935	1475 12 6		321
5062 I12 V4A	12 x 1/ V4A	5900962	1475 13 2		322
5062 II17 FS	17 x 1/ St / FS	5139997	1475 17 7		321
5062 II17 V4A	17 x 1/ V4A	5900979	1475 18 3		322
5062 III26 FS	26 x 1.2/ St / FS	5140054	1475 26 6		321
5062 III26 V4A	26 x 1.2/ V4A	5900986	1475 27 2		322
5062 LI12 12	12 x 0.75/ St / FS	5140115	1475 62 2		321
5062 LI12 V4A	12 x 0.75/ V4A	5900993	1475 62 8		322
5062 LII17 FS	17 x 0.75/ St / FS	5140177	1475 67 3		321
5062 LII17 V4A	17 x 0.75/ V4A	5901006	1475 67 9		322
5062 LIII26 FS	26 x 1/ St / FS	5140238	1475 76 2		321
5062 LIII26 V4A	26 x 1/ V4A	5901013	1475 76 8		322
				/100 pc.	
7901 5 G	5 4000/ St / G	5134831	1435 01 9		307
7901 6.5 G	6,5 4000/ St / G	5134893	1435 02 7		307
7902 6 G	6,5 4000/ St / G	5134954	1436 01 5		307
7902 8 G	8 5000/ St / G	5135012	1436 02 3		307
7903 6 G	6 4000/ St / G	5135074	1437 00 3		308
7903 8 G	8 4000/ St / G	5135135	1437 01 1		308
7903 9 G	9 4000/ St / G	5135197	1437 03 8		308
7904 6 G	6 4800/ St / G	5135258	1438 01 8		308
7905 5 G	5 3600/ St / G	5135319	1439 01 4		308
7908 11 G	11 2400/ St / G	5135555	1442 01 5		308
7909 6 G	6 4000/ St / G	5135616	1443 01 1		308
12005 M10 G	M10 M10/ ST / G	6202270	6410 10 3		429
12005 M10 V2A	M10 M10/ V2A	6043682	6410 16 2		429
12005 M12 G	M12 M12/ ST / G	6202331	6410 11 1		429
12005 M8 G	M8 8/ ST / G	6202218	6410 08 1		429
12005 M8 V2A	M8 M8/ V2A	6043569	6410 15 4		429
12400 10x100 G	10 010/ St / G	5867135	3188 30 2		433
12400 10x60 G	6 010/ St / G	5867074	3188 25 6		433
12400 10x70 G	7 010/ St / G	5270430	3188 27 2		433
12400 10x80 G	8 010/ St / G	5270492	3188 28 0		433
12400 12x70 G	7 012/ St / G	5270553	3188 36 1		433
12400 12x80 G	8 012/ St / G	5270614	3188 38 8		433
12400 6x40 G	4 06/ St / G	5866718	3188 04 3		433
12400 6x50 G	5 06/ St / G	5270195	3188 05 1		433
12400 6x60 G	6 06/ St / G	5270256	3188 07 8		433
12400 6x80 G	8 06/ St / G	5866770	3188 09 4		433
12400 8x100 G	10 08/ St / G	5867012	3188 20 5		433
12400 8x40 G	4 08/ St / G	5866831	3188 14 0		433
12400 8x50 G	5 08/ St / G	5866893	3188 15 9		433
12400 8x60 G	6 08/ St / G	5270317	3188 16 7		433
12400 8x70 G	7 08/ St / G	5270379	3188 17 5		433
12400 8x80 G	8 08/ St / G	5866954	3188 18 3		433
				/100 m	
46277 GTP	1/ St / GTP	5044598	1115 33 2		390
46277 GTPL	1/ St / GTP	5044659	1115 35 9		390
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46277 T160 Q GTP	99/ St / GTP	5897958	1115 27 0		170
46277 T160 Q GTP	99/ St / GTP	5897958	1115 27 0		209
46277 T250 L GTP	189/ St / GTP	5897996	1115 27 8		170
46277 T250 L GTP	189/ St / GTP	5897996	1115 27 8		209
46277 T250 Q GTP	139/ St / GTP	5897965	1115 27 4		170
46277 T250 Q GTP	139/ St / GTP	5897965	1115 27 4		209
46277 T350 L GTP	168/ St / GTP	5898016	1115 28 6		170
46277 T350 L GTP	168/ St / GTP	5898016	1115 28 6		209
46277 T350 Q GTP	161/ St / GTP	5898009	1115 28 2		170
46277 T350 Q GTP	161/ St / GTP	5898009	1115 28 2		209
A 11	Light grey/ PE	5152170	2000 34 2		162
A 11 5	Light grey/ PE	5152057	2000 32 6		162
A 14	Light grey/ PE	5917090	2000 37 8		162
A 14 5	Light grey/ PE	5917106	2000 38 2		162
A 14 HF RO	Red/ PE	5917113	2000 38 6		162
A 14 HF RW	Pure white/ PE	5917120	2000 39 0		162
A 18	Light grey/ PE	5917137	2000 41 0		163
A 18 5	Light grey/ PE	5917144	2000 41 4		163
A 18 HF RO	Red/ PE	5917151	2000 41 8		163
A 18 HF RW	Pure white/ PE	5917168	2000 42 2		163

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Always indicate the item number when ordering.

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A 6 HF RO	Red 10/ PE	5917076	2000 00 3		162
A 6 HF RW	Pure white 10/ PE	5917083	2000 00 5		162
A 8	Light grey/ PE	5151395	2000 01 6		162
A 8 5	Light grey/ PE	5151456	2000 02 4		162
A11 HF RO	Red/ PE	5820390	2000 16 4		162
A11 HF RW	Pure white/ PE	5707899	2000 18 0		162
A8 HF RO	Red/ PE	5239598	2000 05 9		162
A8 HF RW	Pure white/ PE	5313090	2000 07 5		162
B 10 M	Light grey/ UF	5107651	2002 16 7		186
B 10 M 5	Light grey/ UF	5107712	2002 14 0		186
B 100 M	Light grey/ UF	5542537	2001 26 8		184
B 100 M 5	Light grey/ UF	5117735	2001 24 1		184
B 11 M	Light grey/ UF	5105435	2002 34 5		186
B 11 M 5	Light grey/ UF	5107590	2002 32 9		186
B 12 M	Light grey/ UF	5105312	2002 52 3		187
B 12 M 5	Light grey/ UF	5105374	2002 50 7		187
B 160 M	Light grey/ UF	5542414	2001 30 6		185
B 160 M 5	Light grey/ UF	5542476	2001 29 2		185
B 25 M	Light grey/ UF	5545415	2001 13 6		184
B 25 M 5	Light grey/ UF	5125655	2001 12 8		184
B 250 M	Light grey/ UF	5542292	2001 34 9		185
B 40 M	Light grey/ UF	5545170	2001 17 9		184
B 40 M 5	Light grey/ UF	5545231	2001 16 0		184
B 60 M	Light grey/ UF	5119838	2001 21 7		184
B 60 M 5	Light grey/ UF	5545118	2001 20 9		184
B 9 B M	Light grey/ UF	5536178	2001 63 2		186
B 9 B M 5	Light grey/ UF	5536239	2001 61 6		186
B 9 K M	Light grey/ UF	5536116	2001 94 2		186
B 9 T 5	Light grey/ PP	5879671	2001 80 2		183
B 9 T M	Light grey/ PP	5540076	2001 85 3		183
B 9 T M 5	Light grey/ PP	5541936	2001 84 5		183
B 9 T M NL	Light grey/ PP	5539896	2001 86 1		183
B 9 T M RO	Red grey/ PP	5110477	2001 88 8		183
BE TS GR	10/ PC	5840602	2007 83 3		169
BE TS GR	10/ PC	5840602	2007 83 3		180
BE TS KR	10/ PC	5840640	2007 83 5		169
BE TS KR	10/ PC	5840640	2007 83 5		180
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C30 2M FS	30 x 15/ St / FS	5042075	1110 00 4		354
C30 L 1M FT	30 x 15/ ST / FT	5037934	1109 86 3		355
				/100 pc.	
C30 L 200 FT	30 x 15/ ST / FT	5036975	1109 78 2		354
				/100 m	
C30 L 2M FS	30 x 15/ ST / FS	5053897	1110 00 2		354
C30 L 2M FT	30 x 15/ ST / FT	5041771	1109 87 1		355
				/100 pc.	
C30 L 300 FT	30 x 15/ ST / FT	5037033	1109 79 0		354
C30 L 400 FT	30 x 15/ ST / FT	5037095	1109 80 4		354
C30 L 500 FT	30 x 15/ ST / FT	5037156	1109 81 2		354
C30 L 600 FT	30 x 15/ ST / FT	5037217	1109 82 0		354
C30 L 700 FT	30 x 15/ ST / FT	5037279	1109 83 9		354
C30 L 800 FT	30 x 15/ ST / FT	5037330	1109 84 7		354
CPS 4 SK OR SP	Pastel orange 300/ PE	5785316	1124 55 5		358
				/pc.	
CPS 4 SPR 492 FT	/ ST / FT	6006014	6007 24 4		358
CPS 4 SPR 592 FT	/ ST / FT	6006076	6007 25 2		358
CPS 4 SPR 692 FT	/ ST / FT	6006137	6007 26 0		358
CPS 4 SPR 792 FT	/ ST / FT	6006199	6007 27 9		358
CPS 4 SPR 892 FT	/ ST / FT	6006250	6007 28 7		358
CPS 4 SPR 992 FT	/ ST / FT	6006311	6007 29 5		358
CPS 4 SPR1092 FT	/ ST / FT	6006373	6007 30 9		358
CPS 4 SPR1192 FT	/ ST / FT	6006434	6007 31 7		358
				/100 m	
CPS 4L 2M FT	40 x 22,5/ ST / FT	5050230	1121 97 9		358
CPS 4L 2M VA	40 x 22,5/ V2A	5050179	1121 96 0		358
CPS 4L 6M FT	40 x 22,5/ ST / FT	5049937	1121 89 8		358
CPS 4L 6M VA	40 x 22,5/ V2A	5049999	1121 90 1		358
				/pc.	
CPS 5 G 220 FT	50 x 30/ ST / FT	6191710	6349 40 4		359
CPS 5 G 260 FT	50 x 30/ ST / FT	6191772	6349 41 2		359
CPS 5 G 300 FT	50 x 30/ ST / FT	6191833	6349 43 9		359
CPS 5 G 340 FT	50 x 30/ ST / FT	6191895	6349 44 7		359
CPS 5 G 380 FT	50 x 30/ ST / FT	6191956	6349 46 3		359
CPS 5 L 1.5M FT	50 x 30/ St / FT	5514572	1121 36 3		358
				/100 pc.	
CPS 5 L 1.5M V4A	50 x 30/ V4A	5906964	1121 36 5		360
				/100 m	
CPS 5 L 1M FT	50 x 30/ St / FT	5886211	1121 44 8		359
				/pc.	
CPS 5 L 200 FT	50 x 30/ St / FT	5745037	1121 39 1		358
				/100 pc.	
CPS 5 L 200 V4A	50 x 30/ V4A	5906971	1121 39 3		359
				/100 m	
CPS 5 L 2M FT	50 x 30/ St / FT	5049210	1121 46 4		359
CPS 5 L 2M V4A	50 x 30/ V4A	5906995	1121 46 5		360
CPS 5 L 2M VA	50 x 30/ V2A	5049272	1121 48 0		359
				/pc.	
CPS 5 L 300 FT	50 x 30/ St / FT	5672975	1121 24 3		358
				/100 pc.	
CPS 5 L 300 V4A	50 x 30/ V4A	5906902	1121 24 5		359
				/100 m	
CPS 5 L 3M FT	50 x 30/ St / FT	5419686	1121 46 6		359
CPS 5 L 3M V4A	50 x 30/ V4A	5907008	1121 46 9		360
				/pc.	
CPS 5 L 400 FT	50 x 30/ St / FT	5672555	1121 27 8		358
				/100 pc.	
CPS 5 L 400 V4A	50 x 30/ V4A	5906919	1121 28 0		359
				/pc.	
CPS 5 L 500 FT	50 x 30/ St / FT	5886334	1121 40 5		358
				/100 pc.	
CPS 5 L 500 V4A	50 x 30/ V4A	5906988	1121 40 7		359
				/pc.	
CPS 5 L 600 FT	50 x 30/ St / FT	5672494	1121 29 4		358
				/100 pc.	
CPS 5 L 600 V4A	50 x 30/ V4A	5906926	1121 29 6		359
				/100 m	
CPS 5 L 6M FT	50 x 30/ St / FT	5462491	1121 47 2		359
CPS 5 L 6M V4A	50 x 30/ V4A	5907015	1121 47 3		360
CPS 5 L 6M VA	50 x 30/ V2A	5049333	1121 49 9		359
				/pc.	
CPS 5 L 700 FT	50 x 30/ St / FT	5672616	1121 33 2		358
				/100 pc.	
CPS 5 L 700 V4A	50 x 30/ V4A	5906940	1121 33 4		359
				/pc.	
CPS 5 L 800 FT	50 x 30/ St / FT	5882251	1121 30 8		358
				/100 pc.	
CPS 5 L 800 V4A	50 x 30/ V4A	5906933	1121 31 0		359
				/pc.	
CPS 5 L 900 FT	50 x 30/ St / FT	5068310	1121 33 6		358
				/100 pc.	
CPS 5 L 900 V4A	50 x 30/ V4A	5906957	1121 33 8		359
CPS 5 SK OR SP	Pastel orange 300/ PE	5785323	1124 56 3		360
DIN 128 A M10 G	M10 10,5/ ST / G	5302414	3405 10 9		386
DIN 128 A M10 G	M10 10,5/ ST / G	5302414	3405 10 9		435
DIN 128 A M10V4A	M10 10,5/ V4A	5909750	3405 11 1		387
DIN 128 A M10V4A	M10 10,5/ V4A	5909750	3405 11 1		436
DIN 128 A M12 G	M12 12,5/ ST / G	5302476	3405 12 5		386
DIN 128 A M12 G	M12 12,5/ ST / G	5302476	3405 12 5		435
DIN 128 A M12V4A	M12 12,5/ V4A	5909774	3405 12 7		387
DIN 128 A M12V4A	M12 12,5/ V4A	5909774	3405 12 7		436
DIN 128 A M6 G	M6 6,3/ ST / G	5302292	3405 06 0		435
DIN 128 A M6 V4A	M6 6,3/ V4A	5909651	3405 06 2		436
DIN 128 A M8 G	M8 8,3/ ST / G	5302353	3405 08 7		435
DIN 128 A M8 V4A	M8 8,3/ V4A	5909712	3405 08 9		436
DIN 6798 A M10 G	10,5 18-18 / ST / G	5301752	3404 10 2		386
DIN 6798 A M10 G	10,5 18-18 / ST / G	5301752	3404 10 2		435
DIN 6798 A M12 G	13 20,5-20,5 / ST / G	5301813	3404 12 9		386
DIN 6798 A M12 G	13 20,5-20,5 / ST / G	5301813	3404 12 9		435
DIN 6798 A M5 G	5,3 10/ ST / G	5301578	3404 05 6		435
DIN 6798 A M6 G	6,4 11-11 / ST / G	5301639	3404 06 4		435
DIN 6798 A M8 G	8,4 15-15 / ST / G	5301691	3404 08 0		435
DIN 6798 M10 V4A	10,5 18/ V4A	5618096	3404 38 2		386
DIN 6798 M10 V4A	10,5 18/ V4A	5618096	3404 38 2		435
DIN 6798 M12 V4A	13 20,5-20,5 / V4A	5909637	3404 38 6		386
DIN 6798 M12 V4A	13 20,5-20,5 / V4A	5909637	3404 38 6		435
DIN 6798 M6 V4A	6,4 11-11 / V4A	5913283	3404 37 3		435
DIN 6798 M8 V4A	8,4 15-15 / V4A	5909590	3404 37 8		435
DIN 6923 M10 VA	10 17/ V2A	5849711	3156 12 2		386
DIN 6923 M10 VA	10 17/ V2A	5849711	3156 12 2		435
DIN 6923 M12 VA	12 19/ V2A	5849728	3156 12 6		386
DIN 6923 M12 VA	12 19/ V2A	5849728	3156 12 6		435
DIN 6923 M8 VA	8 13/ V2A	5849643	3156 12 0		435
DIN 933 M10x45VA	45 10/ V2A	5849490	3156 04 0		385

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Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
DIN 933 M10x45VA	45 10/ V2A	5849490	3156 04 0		434
DIN 933 M12x45VA	45 10/ V2A	5849513	3156 04 2		385
DIN 933 M12x45VA	45 10/ V2A	5849513	3156 04 2		434
DIN 933 M16x50VA	50 16/ V2A	5849582	3156 04 4		385
DIN 933 M16x50VA	50 16/ V2A	5849582	3156 04 4		434
DIN 934 M10 G	M10 17/ ST / G	5298212	3400 10 7		349
DIN 934 M10 G	M10 17/ ST / G	5298212	3400 10 7		386
DIN 934 M10 G	M10 17/ ST / G	5298212	3400 10 7		434
DIN 934 M10 V4A	M10 17/ V4A	5618072	3400 17 7		386
DIN 934 M10 V4A	M10 17/ V4A	5618072	3400 17 7		435
DIN 934 M10 VA	M10 17/ V2A	5297796	3397 10 6		386
DIN 934 M10 VA	M10 17/ V2A	5297796	3397 10 6		435
DIN 934 M12 G	M12 19/ ST / G	5298274	3400 12 3		386
DIN 934 M12 G	M12 19/ ST / G	5298274	3400 12 3		434
DIN 934 M12 V4A	M12 19/ V4A	5894810	3397 14 5		386
DIN 934 M12 V4A	M12 19/ V4A	5894810	3397 14 5		435
DIN 934 M12 VA	M12 19/ V2A	5297857	3397 11 4		386
DIN 934 M12 VA	M12 19/ V2A	5297857	3397 11 4		435
DIN 934 M4 G	M4 7/ ST / G	5297970	3400 04 2		434
DIN 934 M5 G	M5 8/ ST / G	5298038	3400 05 0		434
DIN 934 M6 G	M6 10/ ST / G	5298090	3400 06 9		349
DIN 934 M6 G	M6 10/ ST / G	5298090	3400 06 9		434
DIN 934 M6 V4A	M6 10/ V4A	5909293	3400 17 3		435
DIN 934 M6 VA	M6 10/ V2A	5297673	3397 06 8		435
DIN 934 M8 G	M8 13/ ST / G	5298151	3400 08 5		349
DIN 934 M8 G	M8 13/ ST / G	5298151	3400 08 5		434
DIN 934 M8 V4A	M8 13/ V4A	5909309	3400 17 5		435
DIN 934 M8 VA	M8 13/ V2A	5297734	3397 08 4		435
EDK 25 LGR	M25/ EVA	5246961	2011 63 8		168
EDK 25 RW	M25/ EVA	5303206	2011 68 9		168
EDK 32 LGR	M32/ EVA	5246978	2011 64 6		168
EDK 32 RW	M32/ EVA	5303213	2011 69 7		168
EDK 40 LGR	M40/ EVA	5246985	2011 65 4		168
EDK 40 RW	M40/ EVA	5303220	2011 70 0		168
EDR 25 16-20 LGR	M25 16 & 20/ PVC	5246909	2011 50 6		168
EDR 25 20-25 LGR	M25 20 & 25/ PVC	5246916	2011 51 4		168
EDR 32 20-25 LGR	M32 20 & 25/ PVC	5246923	2011 52 2		168
EDR 32 25-32 LGR	M32 25 & 32/ PVC	5246930	2011 53 0		168
EDR 40 25-32 LGR	M40 25 & 32/ PVC	5246947	2011 53 8		168
EDR 40 32-40 LGR	M40 32 & 40/ PVC	5246954	2011 54 6		168
EDVS M20 LGR	M 20/ PE	5105251	2012 37 5		171
EDVS M20 LGR	M 20/ PE	5105251	2012 37 5		185
EDVS M25 LGR	M 25/ PE	5105190	2012 38 3		185
EDVS M32 LGR	M 32/ PE	5105138	2012 39 1		185
FAZ II 10 10 GS	M10 95/ ST / G	5888499	3498 54 9		426
FAZ II 10 30	M10 115/ ST / G	5888550	3498 58 1		426
FAZ II 12 10	M12 110/ ST / G	5888611	3498 65 4		426
FAZ II 8 10 GS	M8 75/ ST / G	5888437	3498 50 6		426
FH II 18X80	M12 120/ ST / G	5489139	3498 74 3		426
FL 1 TG	0-18 35/ TG	5150855	1488 01 5		342
FL 2 TG	0-20 42/ TG	5150916	1488 02 3		342
FL 3 TG	0-26 54/ TG	5150978	1488 03 1		342
FL1-G M8 TG	0-18 35/ TG	5151036	1488 07 4		342
FL2-G M10 TG	0-20 42/ TG	5151098	1488 08 2		342
FL3-G M12 TG	0-26 54/ TG	5151159	1488 09 0		342
FNA II 6X30 M6/5	M6 6/ ST / G	5461890	3498 42 5		427
FRSB 10x20 VA	M10/ V2A	5849537	3175 62 0		385
FRSB 10x20 VA	M10/ V2A	5849537	3175 62 0		433
FRSB 10x25 VA	M10/ V2A	5849544	3175 62 5		385
FRSB 10x25 VA	M10/ V2A	5849544	3175 62 5		433
FRSB 8x35 VA	M8/ V2A	5849520	3175 60 8		433
FZEA II 10X40 G	M8 10/ ST / G	5454038	3492 03 6		426
FZEA II 12X40 G	M10 12/ ST / G	5454090	3492 06 0		426
FZEA II 14X40 G	M12 14/ ST / G	5454151	3492 09 5		426
				/pc.	
FZED 10X40 G	5/ ST / G	5454212	3492 62 1		426
FZED 12X40 G	5/ ST / G	5454274	3492 66 4		426
FZED 14X40 G	5/ ST / G	5454335	3492 69 9		426
FZUB 10X40	10 10/ ST	5454397	3492 33 8		426
FZUB 12X40	12 10/ ST	5454458	3492 36 2		426
FZUB 14X40	14 10/ ST	5454519	3492 39 7		426
				/100 pc.	
G22 M10 G	M10 8/ St / G	5897040	1146 39 4		371
G22 M10 V4A	M10 8/ V4A	5942009	1146 40 6		371
G22 M12 G	M12 9,5/ St / G	5897057	1146 39 6		371
G22 M12 V4A	M12 9,5/ V4A	5942030	1146 40 8		371
G22 M6 G	M6 6/ St / G	5896999	1146 39 0		371
G22 M6 V4A	M6 6/ V4A	5941989	1146 40 1		371
G22 M8 G	M8 6/ St / G	5897002	1146 39 2		371
G22 M8 V4A	M8 6/ V4A	5941996	1146 40 3		371
GMF22 M10 G	M10 8/ St / G	5445661	1146 45 9		371
GMF22 M10 V4A	M10 8/ V4A	5890478	1146 43 8		372
GMF22 M12 G	M12 9,5/ St / G	5445678	1146 46 3		371
GMF22 M12 V4A	M12 9,5/ V4A	5890485	1146 44 2		372
GMF22 M6 G	M6 6/ St / G	5445616	1146 45 1		371
GMF22 M6 V4A	M6 6/ V4A	5890454	1146 43 0		372
GMF22 M8 G	M8 6/ St / G	5445623	1146 45 5		371
GMF22 M8 V4A	M8 6/ V4A	5890461	1146 43 4		372
GMH18 M10 G	M10 10-10 / ST / G	5054672	1146 52 1		370
GMH18 M10 VA	M10 10-10 / V4A	5084907	1146 56 0		370
GMH18 M12 VA	M12 12-12 / V4A	5084167	1146 56 2		370
GMH18 M6 G	M6 6-6 / ST / G	5054559	1146 50 5		370
GMH18 M6 VA	M6 6-6 / V4A	5084129	1146 55 6		370
GMH18 M8 G	M8 8-8 / ST / G	5054610	1146 51 3		370
GMH18 M8 VA	M8 8-8 / V4A	5084150	1146 55 8		370
GMH22 M10 G	M10 10-10 / ST / G	5054917	1146 62 9		371
GMH22 M10 VA	M10 10-10 / V4A	5084211	1146 65 0		371
GMH22 M12 G	M12 12-12 / ST / G	5054979	1146 63 7		371
GMH22 M12 VA	M12 12-12 / V4A	5084228	1146 65 2		371
GMH22 M6 G	M6 6-6 / ST / G	5054795	1146 60 2		371
GMH22 M6 VA	M6 6-6 / V4A	5084174	1146 64 6		371
GMH22 M8 G	M8 8-8 / ST / G	5054856	1146 61 0		371
GMH22 M8 VA	M8 8-8 / V4A	5084181	1146 64 8		371
GMS 1 VP FT	150/ St / FT	5486015	1124 64 3		378
GMS 1 VP G	150/ St / G	5485759	1124 60 3		378
GMS 1 VP V2A	150/ V2A	5804895	1124 68 3		381
GMS 1 VP V4A	150/ V4A	5805137	1124 72 3		381
GMS 2 VP FT	40/ St / FT	5486022	1124 64 5		378
GMS 2 VP G	40/ St / G	5485766	1124 60 5		378
GMS 2 VP V2A	40/ V2A	5804901	1124 68 5		381
GMS 2 VP V4A	40/ V4A	5805144	1124 72 5		381
GMS 2 VW 90 FT	60/ St / FT	5486091	1124 65 9		379
GMS 2 VW 90 G	60/ St / G	5485919	1124 61 9		379
GMS 2 VW 90 V2A	60/ V2A	5804994	1124 69 9		383
GMS 2 VW 90 V4A	60/ V4A	5805236	1124 73 9		384
GMS 3 O 4121 FT	40/ St / FT	5486152	1124 67 1		379
GMS 3 O 4121 G	40/ St / G	5485971	1124 63 1		379
GMS 3 O 4141 FT	10/ St / FT	5486169	1124 67 3		378
GMS 3 O 4141 G	10/ St / G	5485988	1124 63 3		378
GMS 3 O 4141 V2A	10/ V2A	5805083	1124 71 3		382
GMS 3 O 4141 V2A	10/ V2A	5805083	1124 71 3		384
GMS 3 O 4141 V4A	10/ V4A	5805304	1124 75 3		383
GMS 3 VP FT	80/ St / FT	5486039	1124 64 7		377
GMS 3 VP G	80/ St / G	5485803	1124 60 7		377
GMS 3 VP L FT	40/ St / FT	5486060	1124 65 3		378
GMS 3 VP L G	40/ St / G	5485865	1124 61 3		378
GMS 3 VP L V2A	40/ V2A	5804949	1124 69 3		382
GMS 3 VP L V4A	40/ V4A	5805205	1124 73 3		382
GMS 3 VP V2A	80/ V2A	5804918	1124 68 7		381
GMS 3 VP V4A	80/ V4A	5805175	1124 72 7		381
GMS 3 VW 45 FT	40/ St / FT	5486138	1124 66 7		379
GMS 3 VW 45 G	40/ St / G	5485957	1124 62 7		379
GMS 3 VW 45 V2A	40/ V2A	5805052	1124 70 7		383
GMS 3 VW 45 V4A	40/ V4A	5805274	1124 74 7		384
GMS 3 VW 90 FT	40/ St / FT	5486107	1124 66 1		379
GMS 3 VW 90 G	40/ St / G	5485926	1124 62 1		379
GMS 3 VW 90 V2A	40/ V2A	5805007	1124 70 1		383
GMS 3 VW 90 V4A	40/ V4A	5805243	1124 74 1		384
GMS 4 KD 90 FT	10/ St / FT	5486121	1124 66 5		379
GMS 4 KD 90 G	10/ St / G	5485940	1124 62 5		379
GMS 4 KD 90 V2A	10/ V2A	5805021	1124 70 5		385
GMS 4 KD 90 V4A	10/ V4A	5805267	1124 74 5		385
GMS 4 VP FT	40/ St / FT	5486046	1124 64 9		377
GMS 4 VP G	40/ St / G	5485810	1124 60 9		377
GMS 4 VP T FT	10/ St / FT	5486077	1124 65 5		378
GMS 4 VP T G	10/ St / G	5485872	1124 61 5		378

Always indicate the item number when ordering.

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
GMS 4 VP T V2A	10/ V2A	5804956	1124 69 5		382
GMS 4 VP T V4A	10/ V4A	5805212	1124 73 5		382
GMS 4 VP V2A	40/ V2A	5804925	1124 68 9		380
GMS 4 VP V4A	40/ V4A	5805182	1124 72 9		381
GMS 4 VW 45 FT	40/ St / FT	5486145	1124 66 9		379
GMS 4 VW 45 G	40/ St / G	5485964	1124 62 9		379
GMS 4 VW 45 V2A	40/ V2A	5805069	1124 70 9		383
GMS 4 VW 45 V4A	40/ V4A	5805281	1124 74 9		384
GMS 4 VW 90 FT	30/ St / FT	5486114	1124 66 3		379
GMS 4 VW 90 G	30/ St / G	5485933	1124 62 3		379
GMS 4 VW 90 V2A	30/ V2A	5805014	1124 70 3		384
GMS 4 VW 90 V4A	30/ V4A	5805250	1124 74 3		384
GMS 5 VP FT	10/ St / FT	5486053	1124 65 1		377
GMS 5 VP G	10/ St / G	5485827	1124 61 1		377
GMS 5 VP V2A	10/ V2A	5804932	1124 69 1		380
GMS 5 VP V4A	10/ V4A	5805199	1124 73 1		380
GMS 5 VP X FT	10/ St / FT	5486084	1124 65 7		378
GMS 5 VP X G	10/ St / G	5485889	1124 61 7		378
GMS 5 VP X V2A	10/ V2A	5804963	1124 69 7		382
GMS 5 VP X V4A	10/ V4A	5805229	1124 73 7		382
				/pc.	
GVMS 4 ASV FT	20/ St / FT	5486008	1124 64 1		378
GVMS 4 ASV G	20/ St / G	5485742	1124 60 1		378
GVMS 4 ASV V2A	60/ V2A	5804888	1124 68 1		383
GVMS 4 ASV V4A	60/ V4A	5805120	1124 71 5		383
HG 60	Orange 68/ PP	5032779	2003 41 4		199
HG 60 2	Orange 100/ PP	5032830	2003 42 2		199
HG 60 MW	Orange 68/ PP	5246732	2003 61 1		199
HG 60-35	Orange 68/ PP	5051350	2003 42 6		199
HG 60-35 MW	Orange 68/ PP	5246725	2003 60 3		199
HGMH18 M10 G	M10 10-10 / ST / G	5055150	1146 73 4		370
HGMH18 M12 G	M12 12-12 / ST / G	5055211	1146 74 2		370
HGMH18 M6 G	M6 6-6 / ST / G	5055037	1146 71 8		370
HGMH18 M8 G	M8 8-8 / ST / G	5055099	1146 72 6		370
HGMH22 M10 G	M10 10-10 / ST / G	5055334	1146 81 5		371
HGMH22 M12 G	M12 12-12 / ST / G	5055396	1146 82 3		371
HGMH22 M8 G	M8 8-8 / ST / G	5055273	1146 80 7		371
				/pc.	
HG-UPM1	Blue	5406310	6119 95 0		201
HG-UPM2	Blue	5406327	6119 95 1		201
HG-UPM3	Blue	5406334	6119 95 2		201
				/100 pc.	
HKF22 M10x30 G	M10 30/ St / G	5445739	1148 96 1		373
HKF22 M10x30 V4A	M10 30/ V4A	5941934	1148 99 6		373
HKF22 M10x50 G	M10 50/ St / G	5445746	1148 96 6		373
HKF22 M10x50 V4A	M10 50/ V4A	5941941	1148 99 8		373
HKF22 M12x30 G	M12 30/ St / G	5445784	1148 97 2		373
HKF22 M12x30 V4A	M12 30/ V4A	5941972	1149 00 2		373
HKF22 M8x30 G	M8 30/ St / G	5445685	1148 95 0		373
HKF22 M8x30 V4A	M8 30/ V4A	5941910	1148 99 0		373
HKF22 M8x50 G	M8 50/ St / G	5445722	1148 95 5		373
HKF22 M8x50 V4A	M8 50/ V4A	5941927	1148 99 2		373
HMS-KS5X50	5 x 50 50/ ST / G	5964100	3498 20 4		427
				/pc.	
HTS 35		5477259	1125 03 6		390
				/100 pc.	
HV 100 KD	Orange 50/ PP	5033011	2003 44 9		200
HV 60	Orange 68/ PP	5032953	2003 44 2		200
HV 60 MW	Orange 68/ PP	5246749	2003 61 9		200
HV 70 D	Orange 74/ PP	5032892	2003 43 0		200
				/100 m	
K-C30 G	0,725/ St / G	5151210	1488 20 1		348
				/100 pc.	
KD 10 100	M10 100/ St / G	5239352	3482 75 8		426
KD 10 150	M10 150/ St / G	5239291	3482 76 6		426
KD 8 100	M8 100/ St / G	5239475	3482 70 7		426

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
KL 100	/ MF	5158592	2016 12 5		185
				/pc.	
KL1 10 S FT	10/ ST / FT	6194292	6354 10 6		374
KL1 15 S FT	15/ ST / FT	6194353	6354 11 4		374
KL1 20 S FT	20/ ST / FT	6194414	6354 12 2		374
				/100 pc.	
KL-T 01-04	Light grey/ PA	5942825	2016 18 0		209
KL-T 01-04	Light grey/ PA	5942825	2016 18 0		169
KL-T 02-06	Light grey/ PA	5942832	2016 18 5		170
KL-T 02-06	Light grey/ PA	5942832	2016 18 5		183
KL-T 02-06	Light grey/ PA	5942832	2016 18 5		209
KL-T 06-16	Light grey/ PA	5896951	2016 19 0		170
KL-T 06-16	Light grey/ PA	5896951	2016 19 0		209
KL-T 16-35	Light grey/ PA	5896968	2016 19 5		170
KL-T 16-35	Light grey/ PA	5896968	2016 19 5		209
				/pc.	
KVM		5577768	2363 01 0		188
				/VPE	
KVM-M		5686354	2363 01 5		188
				/pc.	
KVM-P		5687771	2363 01 9		188
				/pair	
KWH 10 FT	10/ ST / FT	6194537	6355 04 8		374
KWH 15 FT	15/ ST / FT	6194599	6355 05 6		374
KWH 20 FT	20/ ST / FT	6194650	6355 06 4		374
KWH 25 FT	25/ ST / FT	6194711	6355 07 2		374
KWH 5 FT	5/ ST / FT	6194476	6355 02 1		374
KWS 10 FT	10/ ST / FT	6194834	6355 22 6		374
KWS 15 FT	15/ ST / FT	6194896	6355 23 4		374
KWS 20 FT	20/ ST / FT	6194957	6355 24 2		374
KWS 25 FT	25/ ST / FT	6195015	6355 25 0		374
KWS 5 FT	5/ ST / FT	6194773	6355 21 8		374
				/100 pc.	
MD 5 GTP	530/ ST / GTP	5683414	3484 60 2		424
MD 6 GTP	632/ ST / GTP	5683353	3484 62 9		424
MMS10X100	10 x 100 100/ ST / G	5964049	3498 15 8		427
MMS10X80	10 x 80 80/ ST / G	5963981	3498 12 3		427
MMS6X50	6 x 50 50/ ST / GC	5963929	3498 10 7		427
MMS-ST6X60	6 x 60 60/ St / G	5964162	3498 26 3		427
				/pc.	
MP UNI FS	115 170/ ST / FS	6146895	7084 77 3		169
MP WI KL. DD	210 120/ ST / DD	5163305	7085 11 1		168
MP WI KL. DD	210 120/ ST / DD	5163305	7085 11 1		183
MP WI KL. FS	210 120/ ST / FS	6146833	7084 76 5		168
MP WI KL. FS	210 120/ ST / FS	6146833	7084 76 5		183
MPG 65 FT	8165/ ST / FT	6933259	6006 48 6		169
				/100 pc.	
M-Quick 15-19LGR	15-19 / PA	5880936	2153 10 6		269
M-Quick 18-22LGR	18,5-22,5 / PA	5880998	2153 11 4		269
M-Quick 25-28LGR	25-28,5 / PA	5881056	2153 13 0		269
M-Quick 31-37LGR	31-37 / PA	5881117	2153 15 7		269
M-Quick M20 LGR	16-20 / PA	5742395	2153 71 8		269
M-Quick M20 SW	16-20 / PA	5505334	2153 78 5		269
M-Quick M25 LGR	20-25 / PA	5741732	2153 72 6		269
M-Quick M25 SW	20-25 / PA	5505396	2153 78 7		269
M-Quick M32 LGR	25-32 / PA	5741671	2153 73 4		269
M-Quick M32 SW	25-32 / PA	5505457	2153 78 9		269
				/100 m	
MS 21 D L 3M FS	41x21/ St / FS	5697848	1122 94 7		362
MS 21 D L 3M FT	41x21/ St / FT	5697794	1122 94 4		362
MS 21 D L 6M FS	41x21/ St / FS	5697855	1122 94 8		362
MS 21 D L 6M FT	41x21/ St / FT	5697800	1122 94 5		362
MS 21 D L3M 2V2A	41x21/ V2A	5938002	1122 95 2		362

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 m	
MS 21 D L6M 2V2A	41x21/ V2A	5938019	1122 95 4		362
				/100 pc.	
MS 21 L 200 FT	41x21/ St / FT	5697626	1122 93 3		361
MS 21 L 200 V4A	41x21/ V4A	5907039	1122 46 8		362
				/100 m	
MS 21 L 2M FS	41x21/ St / FS	5686262	1122 91 8		360
MS 21 L 2M FT	41x21/ St / FT	5697541	1122 92 3		361
MS 21 L 2M V4A	41x21/ V4A	5907114	1122 47 6		361
				/100 pc.	
MS 21 L 300 FT	41x21/ St / FT	5697664	1122 93 4		361
MS 21 L 300 V4A	41x21/ V4A	5907046	1122 46 9		362
				/100 m	
MS 21 L 3M FS	41x21/ St / FS	5686279	1122 92 0		360
MS 21 L 3M FT	41x21/ St / FT	5686293	1122 92 4		361
MS 21 L 3M V2A	41x21/ V2A	5697558	1122 92 8		361
MS 21 L 3M V4A	41x21/ V4A	5697602	1122 93 1		361
				/100 pc.	
MS 21 L 400 FT	41x21/ St / FT	5697671	1122 93 5		361
MS 21 L 400 V4A	41x21/ V4A	5907053	1122 47 0		362
MS 21 L 500 FT	41x21/ St / FT	5697688	1122 93 6		361
MS 21 L 500 V4A	41x21/ V4A	5907060	1122 47 1		362
MS 21 L 600 FT	41x21/ St / FT	5697725	1122 93 7		361
MS 21 L 600 V4A	41x21/ V4A	5907077	1122 47 2		362
				/100 m	
MS 21 L 6M FS	41x21/ St / FS	5686286	1122 92 2		360
MS 21 L 6M FT	41x21/ St / FT	5686309	1122 92 6		361
MS 21 L 6M V2A	41x21/ V2A	5697565	1122 92 9		361
MS 21 L 6M V4A	41x21/ V4A	5697619	1122 93 2		361
				/100 pc.	
MS 21 L 700 FT	41x21/ St / FT	5697732	1122 93 8		361
MS 21 L 700 V4A	41x21/ V4A	5907084	1122 47 3		362
MS 21 L 800 FS	41x21/ St / FS	5848042	1122 95 7		360
MS 21 L 800 FT	41x21/ St / FT	5697749	1122 93 9		361
MS 21 L 800 V4A	41x21/ V4A	5907091	1122 47 4		362
MS 21 L 900 FT	41x21/ St / FT	5697787	1122 94 0		361
MS 21 L 900 V4A	41x21/ V4A	5907107	1122 47 5		362
MS 21 SK OR SP	Pastel orange 300/ PE	5686217	1122 90 2		362
				/100 m	
MS 41 D L3M 2V2A	41x82/ V2A	5938026	1122 68 2		367
MS 41 D L6M 2V2A	41x82/ V2A	5938033	1122 68 4		367
				/100 pc.	
MS 41 EDK OR	Pastel orange 50/ PE	5894117	1122 90 6		368
				/100 m	
MS 41 L 1M 2 FS	41x41/ St / FS	5698142	1122 97 0		363
MS 41 L 1M 2 FT	41x41/ St / FT	5698081	1122 96 2		364
MS 41 L 1M 2 V2A	41x41/ V2A	5698203	1122 97 8		364
MS 41 L 1M 2 V4A	41x41/ V4A	5698265	1122 98 8		365
MS 41 L 1M FS	41x41/ St / FS	5697503	1122 90 8		363
MS 41 L 1M FT	41x41/ St / FT	5487272	1122 60 6		364
MS 41 L 1M V4A	41x41/ V4A	5907206	1123 04 7		365
				/100 pc.	
MS 41 L 200 FT	41x41/ St / FT	5484516	1122 50 9		363
MS 41 L 200 V4A	41x41/ V4A	5907121	1123 03 1		364
MS 41 L 300 FT	41x41/ St / FT	5485896	1122 51 7		363
MS 41 L 300 V4A	41x41/ V4A	5907138	1123 03 3		364
				/100 m	
MS 41 L 3M 2 FS	41x41/ St / FS	5698159	1122 97 2		363
MS 41 L 3M 2 FT	41x41/ St / FT	5698098	1122 96 4		364
MS 41 L 3M 2 V2A	41x41/ V2A	5698210	1122 98 0		364
MS 41 L 3M 2 V4A	41x41/ V4A	5698272	1122 99 0		365
MS 41 L 3M FS	41x41/ St / FS	5686224	1122 91 0		363
MS 41 L 3M FT	41x41/ St / FT	5487876	1122 62 2		364
MS 41 L 3M V4A	41x41/ V4A	5907213	1123 04 9		365
				/100 pc.	
MS 41 L 400 FT	41x41/ St / FT	5486251	1122 52 5		363
MS 41 L 400 V4A	41x41/ V4A	5907145	1123 03 5		364
MS 41 L 500 FT	41x41/ St / FT	5486794	1122 53 3		363
MS 41 L 500 V4A	41x41/ V4A	5907152	1123 03 7		364
MS 41 L 600 FT	41x41/ St / FT	5486916	1122 54 1		363
MS 41 L 600 V4A	41x41/ V4A	5907169	1123 03 9		364
				/100 m	
MS 41 L 6M 2 FS	41x41/ St / FS	5698166	1122 97 4		363
MS 41 L 6M 2 FT	41x41/ St / FT	5698104	1122 96 6		364
MS 41 L 6M 2 V2A	41x41/ V2A	5698227	1122 98 2		364
MS 41 L 6M 2 V4A	41x41/ V4A	5698289	1122 99 2		365
MS 41 L 6M FS	41x41/ St / FS	5686231	1122 91 2		363
MS 41 L 6M FT	41x41/ St / FT	5488170	1122 65 7		364
MS 41 L 6M V4A	41x41/ V4A	5907220	1123 05 1		365
				/100 pc.	
MS 41 L 700 FT	41x41/ St / FT	5487036	1122 56 8		363
MS 41 L 700 V4A	41x41/ V4A	5907176	1123 04 1		364
MS 41 L 800 FT	41x41/ St / FT	5487098	1122 57 6		363
MS 41 L 800 V4A	41x41/ V4A	5907183	1123 04 3		364
MS 41 L 900 FT	41x41/ St / FT	5487159	1122 58 4		363
MS 41 L 900 V4A	41x41/ V4A	5907190	1123 04 5		364

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 m	
MS 41 LS 1M 2 FS	41x41/ St / FS	5697923	1123 00 8		363
MS 41 LS 1M 2 FT	/ St / FT	5697862	1123 00 1		366
MS 41 LS 1M FS	41x41/ St / FS	5697978	1122 48 1		365
MS 41 LS 1M FT	41x41/ St / FT	5697961	1122 47 9		365
MS 41 LS 1M V4A	41x41/ V4A	5907237	1123 07 7		367
				/100 pc.	
MS 41 LS 300 FT	41x41/ St / FT	5356325	1122 50 0		366
				/100 m	
MS 41 LS 3M 2 FS	41x41/ St / FS	5698319	1123 01 0		363
MS 41 LS 3M 2 FT	/ St / FT	5697909	1123 00 3		366
MS 41 LS 3M FS	41x41/ St / FS	5686248	1122 91 4		365
MS 41 LS 3M FT	41x41/ St / FT	5050735	1122 48 3		365
				/100 pc.	
MS 41 LS 400 FT	41x41/ St / FT	5356332	1122 50 1		366
				/100 m	
MS 41 LS 6M 2 FS	41x41/ St / FS	5698326	1123 01 2		363
MS 41 LS 6M 2 FT	/ St / FT	5697916	1123 00 5		366
MS 41 LS 6M FS	41x41/ St / FS	5686255	1122 91 6		365
MS 41 LS 6M FT	41x41/ St / FT	5050742	1122 48 7		365
MS 41 LS 6M V4A	41x41/ V4A	5907244	1123 07 9		367
MS 41 LS1M 2 V2A	41x41/ V2A	5698333	1123 01 4		366
MS 41 LS1M 2 V4A	41x41/ V4A	5698395	1123 02 1		366
MS 41 LS3M 2 V2A	41x41/ V2A	5698340	1123 01 6		366
MS 41 LS3M 2 V4A	41x41/ V4A	5698401	1123 02 3		366
MS 41 LS6M 2 V2A	41x41/ V2A	5698388	1123 01 8		366
MS 41 LS6M 2 V4A	41x41/ V4A	5698432	1123 02 5		366
				/100 pc.	
MS 41 SK OR SP	Pastel orange 300/ PE	5686200	1122 90 0		367
				/100 m	
MS 41D L 3M 2 FS	41x82/ St / FS	5698036	1122 67 6		367
MS 41D L 3M 2 FT	41x82/ St / FT	5697985	1122 67 1		367
MS 41D L 6M 2 FS	41x82/ St / FS	5698043	1122 67 8		367
MS 41D L 6M 2 FT	41x82/ St / FT	5698029	1122 67 3		367
				/pc.	
PD-UPM1	Red	5406266	6119 94 5		198
PD-UPM2	Red	5406297	6119 94 6		198
PD-UPM3	Red	5406303	6119 94 7		198
				/100 pc.	
S 25 ZD	18-25 0,45/ St / ZD	5148210	1486 30 6		343
S 32 ZD	28-32 0,45/ St / ZD	5148272	1486 31 4		343
S 37 ZD	35-37 0,45/ St / ZD	5148333	1486 32 2		343
				/100 m	
S16 W ALU	M16 3000/ Al	5925743	2046 00 2		332
S16 W G	M16 3000/ St / G	5924647	2046 84 0		326
S16 W V2A	M16 3000/ V2A	5923640	2046 72 0		330
S16 W V4A	M16 3000/ V4A	5923886	2046 75 0		331
S16W FT	M16 3000/ St / FT	5782148	2046 59 3		329
S16W SW	M16 16/ St / L	5782032	2046 56 5		328
S20 W ALU	M20 3000/ Al	5925774	2046 00 3		332
S20 W G	M20 3000/ St / G	5924654	2046 84 1		326
S20 W V2A	M20 3000/ V2A	5923657	2046 72 1		330
S20 W V4A	M20 3000/ V4A	5923923	2046 75 1		331
S20W FT	M20 3000/ St / FT	5782155	2046 59 4		329
S20W SW	M20 20/ St / L	5782049	2046 56 6		328
S25 W ALU	M25 3000/ Al	5925781	2046 00 4		332
S25 W G	M25 3000/ St / G	5924661	2046 84 2		326
S25 W V2A	M25 3000/ V2A	5923664	2046 72 2		330
S25 W V4A	M25 3000/ V4A	5923947	2046 75 2		331
S25W FT	M25 3000/ St / FT	5782162	2046 59 5		329
S25W SW	M25 25/ St / L	5782070	2046 56 7		328
S32 W ALU	M32 3000/ Al	5925804	2046 00 5		332
S32 W G	M32 3000/ St / G	5924678	2046 84 3		326
S32 W V2A	M32 3000/ V2A	5923671	2046 72 3		330
S32 W V4A	M32 3000/ V4A	5923978	2046 75 3		331
S32W FT	M32 3000/ St / FT	5782209	2046 59 6		329
S32W SW	M32 32/ St / L	5782087	2046 56 8		328
S40 W ALU	M40 3000/ Al	5925835	2046 00 6		332
S40 W G	M40 3000/ St / G	5924685	2046 84 4		326
S40 W V2A	M40 3000/ V2A	5923688	2046 72 4		330
S40 W V4A	M40 3000/ V4A	5923985	2046 75 4		331

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 m	
S40W FT	M40 3000/ St / FT	5782216	2046 59 7		329
S40W SW	M40 40/ St / L	5782094	2046 56 9		328
S50 W ALU	M50 3000/ Al	5925842	2046 00 7		332
S50 W G	M50 3000/ St / G	5924692	2046 84 5		326
S50 W V2A	M50 3000/ V2A	5923695	2046 72 5		330
S50 W V4A	M50 3000/ V4A	5923992	2046 75 5		331
S50W FT	M50 3000/ St / FT	5782223	2046 59 8		329
S50W SW	M50 50/ St / L	5782100	2046 57 0		328
S63 W ALU	M63 3000/ Al	5925859	2046 00 8		332
S63 W G	M63 3000/ St / G	5924708	2046 84 6		326
S63 W V2A	M63 3000/ V2A	5923701	2046 72 6		330
S63 W V4A	M63 3000/ V4A	5924036	2046 75 6		331
S63W FT	M63 3000/ St / FT	5782261	2046 59 9		329
S63W SW	M63 63/ St / L	5782131	2046 57 1		328
				/pair	
SAA CPS 4 FT	/ St / FT	5439479	6007 49 8		360
				/100 pc.	
SB16 W ALU	M16 157/ Al	5925866	2046 01 2		332
SB16 W G	M16 114,3/ St / G	5924715	2046 84 7		327
SB16 W V2A	M16 153/ V2A	5923718	2046 73 0		330
SB16 W V4A	M16 153/ V4A	5924050	2046 76 0		331
SB16W FT	M16 114,3/ St / FT	5782278	2046 60 4		330
SB16W SW	M16 114,3/ St / L	5781653	2046 57 5		328
SB20 W ALU	M20 176/ Al	5925897	2046 01 3		332
SB20 W G	M20 116,55/ St / G	5924722	2046 84 8		327
SB20 W V2A	M20 183/ V2A	5923725	2046 73 1		330
SB20 W V4A	M20 183/ V4A	5924104	2046 76 1		331
SB20W FT	M20 116,55/ St / FT	5782285	2046 60 5		330
SB20W SW	M20 116,55/ St / L	5781660	2046 57 6		328
SB25 W ALU	M25 196/ Al	5925903	2046 01 4		332
SB25 W G	M25 144,05/ St / G	5924739	2046 84 9		327
SB25 W V2A	M25 208/ V2A	5923732	2046 73 2		330
SB25 W V4A	M25 208/ V4A	5924111	2046 76 2		331
SB25W FT	M25 144,05/ St / FT	5782315	2046 60 6		330
SB25W SW	M25 144,05/ St / L	5781677	2046 57 7		328
SB32 W ALU	M32 218/ Al	5925910	2046 01 5		332
SB32 W G	M32 172,6/ St / G	5924746	2046 85 0		327
SB32 W V2A	M32 258/ V2A	5923749	2046 73 3		330
SB32 W V4A	M32 258/ V4A	5924173	2046 76 3		331
SB32W FT	M32 172,6/ St / FT	5782322	2046 61 0		330
SB32W SW	M32 172,6/ St / L	5781684	2046 57 8		328
SB40 W ALU	M40 247/ Al	5925927	2046 01 6		332
SB40 W G	M40 271,9/ St / G	5924753	2046 85 1		327
SB40 W V2A	M40 276/ V2A	5923756	2046 73 4		330
SB40 W V4A	M40 276/ V4A	5924180	2046 76 4		331
SB40W FT	M40 301,9/ St / FT	5782339	2046 61 4		330
SB40W SW	M40 271,9/ St / L	5781721	2046 57 9		328
SB50 W ALU	M50 297/ Al	5925965	2046 01 7		332
SB50 W G	M50 320/ St / G	5924760	2046 85 2		327
SB50 W V2A	M50 317/ V2A	5923763	2046 73 5		330
SB50 W V4A	M50 317/ V4A	5924197	2046 76 5		331
SB50W FT	M50 320/ St / FT	5782346	2046 61 5		330
SB50W SW	M50 320/ St / L	5781738	2046 58 0		328
SB63 W ALU	M63 340/ Al	5925972	2046 01 8		332
SB63 W G	M63 418,5/ St / G	5924777	2046 85 3		327
SB63 W V2A	M63 376/ V2A	5923770	2046 73 6		330
SB63 W V4A	M63 376/ V4A	5924203	2046 76 6		331
SB63W FT	M63 418,5/ St / FT	5782377	2046 61 6		330
SB63W SW	M63 418,5/ St / L	5781745	2046 58 1		328
SBM16 W ALU	M16 131/ Al	5926184	2046 04 2		331
SBM16 W G	M16 113/ St / G	5924920	2046 86 8		326
SBM16W FT	M16 113/ St / FT	5781554	2046 54 5		329
SBM16W SW	M16 113/ St / L	5781189	2046 51 1		327
SBM20 W ALU	M20 145/ Al	5926191	2046 04 3		331
SBM20 W G	M20 160/ St / G	5924937	2046 86 9		326
SBM20W FT	M20 160/ St / FT	5781561	2046 54 6		329
SBM20W SW	M20 160/ St / L	5781196	2046 51 3		327
SBM25 W ALU	M25 170/ Al	5926207	2046 04 4		331
SBM25 W G	M25 182,5/ St / G	5924944	2046 87 0		326
SBM25W FT	M25 182,5/ St / FT	5781592	2046 54 8		329
SBM25W SW	M25 182,5/ St / L	5781202	2046 51 4		327
SBM32 W ALU	M32 187/ Al	5926214	2046 04 5		331
SBM32 W G	M32 206/ St / G	5924951	2046 87 1		326
SBM32W FT	M32 206/ St / FT	5781608	2046 54 9		329
SBM32W SW	M32 206/ St / L	5781233	2046 51 5		327
SBM40 W ALU	M40 235/ Al	5926221	2046 04 6		331
SBM40 W G	M40 300/ St / G	5924968	2046 87 2		326
SBM40W FT	M40 300/ St / FT	5781615	2046 55 0		329
SBM40W SW	M40 300/ St / L	5781240	2046 51 6		327
SBM50 W ALU	M50 275/ Al	5926238	2046 04 7		331
SBM50 W G	M50 325/ St / G	5924975	2046 87 3		326
SBM50W FT	M50 325/ St / FT	5781622	2046 55 1		329
SBM50W SW	M50 325/ St / L	5781257	2046 51 7		327
SBM63 W ALU	M63 343/ Al	5926245	2046 04 8		331
SBM63 W G	M63 411,5/ St / G	5924982	2046 87 4		326
SBM63W FT	M63 411,5/ St / FT	5781905	2046 55 2		329
SBM63W SW	M63 411,5/ St / L	5781264	2046 51 8		327
SH 40 G	0,5 1200/ St / G	5151272	1488 25 2		348
				/100 m	
SM16 W ALU	M16 3000/ Al	5926092	2046 03 2		331
SM16 W G	M16 3000/ St / G	5924852	2046 86 1		326
SM16W FT	M16 3000/ St / FT	5781424	2046 53 3		329
SM16W SW	M16 3000/ St / L	5781028	2046 50 0		327
SM20 W ALU	M20 3000/ Al	5926108	2046 03 3		331
SM20 W G	M20 3000/ St / G	5924869	2046 86 2		326
SM20W FT	M20 3000/ St / FT	5781431	2046 53 4		329
SM20W SW	M20 3000/ St / L	5781066	2046 50 1		327
SM25 W ALU	M25 3000/ Al	5926139	2046 03 4		331
SM25 W G	M25 3000/ St / G	5924876	2046 86 3		326
SM25W FT	M25 3000/ St / FT	5781448	2046 53 5		329
SM25W SW	M25 3000/ St / L	5781073	2046 50 2		327
SM32 W ALU	M32 3000/ Al	5926146	2046 03 5		331
SM32 W G	M32 3000/ St / G	5924883	2046 86 4		326
SM32W FT	M32 3000/ St / FT	5781486	2046 53 6		329
SM32W SW	M32 3000/ St / L	5781080	2046 50 3		327
SM40 W ALU	M40 3000/ Al	5926153	2046 03 6		331
SM40 W G	M40 3000/ St / G	5924890	2046 86 5		326
SM40W FT	M40 3000/ St / FT	5781493	2046 53 7		329
SM40W SW	M40 3000/ St / L	5781127	2046 50 5		327
SM50 W ALU	M50 3000/ Al	5926160	2046 03 7		331
SM50 W G	M50 3000/ St / G	5924906	2046 86 6		326
SM50W FT	M50 3000/ St / FT	5781509	2046 53 8		329
SM50W SW	M50 3000/ St / L	5781134	2046 50 6		327
SM63 W ALU	M63 3000/ Al	5926177	2046 03 8		331
SM63 W G	M63 3000/ St / G	5924913	2046 86 7		326
SM63W FT	M63 3000/ St / FT	5781547	2046 54 0		329
SM63W SW	M63 3000/ St / L	5781141	2046 50 7		327
				/100 pc.	
SPP 20-40 FT	20-40 63/ St / FT	5859529	1486 27 0		345
SPP 20-40 V4A	20-40 63/ V4A	5859543	1486 27 8		346
SPP 20-40 VA	20-40 63/ V2A	5859536	1486 27 4		346
SPP 6-21 FT	6-21 43/ St / FT	5859499	1486 25 0		345
SPP 6-21 V4A	6-21 43/ V4A	5859512	1486 25 8		345
SPP 6-21 VA	6-21 43/ V2A	5859505	1486 25 4		345
				/pc.	
SQ 1632	16	5028154	2153 57 2		335
				/100 pc.	
SQ M6	M6 15/ PC	5016069	2146 50 9		270
SQ-10 LGR	10 9,5-12 / PA	5595359	2146 05 3		270
SQ-12 LGR	12-14 11,5-15 / PA	5595410	2146 06 1		270
SQ-15 LGR	15-16 14-16,5 / PA	5595472	2146 09 6		270
SQ-17 LGR	17-19 16-20 / PA	5595533	2146 11 8		270
SQ-20 LGR	20-23 19,5-23,5 / PA	5595656	2146 13 4		270
SQ-25 LGR	25-28 24-28 / PA	5595717	2146 20 7		270

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
SQ-28 LGR	28-32 27,5-32 / PA	5595779	2146 21 5		270
SQ-32 LGR	32-35 31,2-35,8 / PA	5595830	2146 25 8		270
SQ-36 LGR	35-40 35-40,1 / PA	5204275	2146 29 0		270
SQ-40 LGR	40-44 39,3-44,5 / PA	5595892	2146 32 0		270
SQ-47 LGR	45-50 44-50 / PA	5204398	2146 36 3		270
SQ-51 LGR	50-54 48-55 / PA	5595953	2146 44 4		270
SQ-59 LGR	59-65 58,5-65 / PA	5204510	2146 48 7		270
SV16 W ALU	16 40/ Al	5925989	2046 02 2		332
SV16 W G	M16 50/ St / G	5924784	2046 85 4		327
SV16 W V2A	M16 45/ V2A	5923787	2046 74 0		330
SV16 W V4A	M16 45/ V4A	5924210	2046 77 0		331
SV16W FT	M16 50/ St / FT	5782384	2046 62 0		330
SV16W SW	M16 50/ St / L	5781776	2046 58 2		328
SV20 W ALU	20 50/ Al	5926016	2046 02 3		332
SV20 W G	M20 60/ St / G	5924791	2046 85 5		327
SV20 W V2A	M20 50/ V2A	5923794	2046 74 1		330
SV20 W V4A	M20 50/ V4A	5924258	2046 77 1		331
SV20W FT	M20 60/ St / FT	5782391	2046 62 1		330
SV20W SW	M20 60/ St / L	5781783	2046 58 3		328
SV25 W ALU	25 60/ Al	5926023	2046 02 4		332
SV25 W G	M25 60/ St / G	5924807	2046 85 6		327
SV25 W V2A	M25 60/ V2A	5923800	2046 74 2		330
SV25 W V4A	M25 60/ V4A	5924272	2046 77 2		331
SV25W FT	M25 60/ St / FT	5782407	2046 62 2		330
SV25W SW	M25 60/ St / L	5781790	2046 58 4		328
SV32 W ALU	32 70/ Al	5926030	2046 02 5		332
SV32 W G	M32 70/ St / G	5924814	2046 85 7		327
SV32 W V2A	M32 70/ V2A	5923824	2046 74 3		330
SV32 W V4A	M32 70/ V4A	5924296	2046 77 3		331
SV32W FT	M32 70/ St / FT	5782445	2046 62 3		330
SV32W SW	M32 70/ St / L	5781806	2046 58 5		328
SV40 W ALU	40 70/ Al	5926047	2046 02 6		332
SV40 W G	M40 80/ St / G	5924821	2046 85 8		327
SV40 W V2A	M40 80/ V2A	5923855	2046 74 4		330
SV40 W V4A	M40 80/ V4A	5924302	2046 77 4		331
SV40W FT	M40 80/ St / FT	5782452	2046 62 4		330
SV40W SW	M40 80/ St / L	5781844	2046 58 6		328
SV50 W ALU	50 90/ Al	5926078	2046 02 7		332
SV50 W G	M50 100/ St / G	5924838	2046 85 9		327
SV50 W V2A	M50 100/ V2A	5923862	2046 74 5		330
SV50 W V4A	M50 100/ V4A	5924333	2046 77 5		331
SV50W FT	M50 100/ St / FT	5782469	2046 62 5		330
SV50W SW	M50 100/ St / L	5781851	2046 58 7		328
SV63 W ALU	63 110/ Al	5926085	2046 02 8		332
SV63 W G	M63 100/ St / G	5924845	2046 86 0		327
SV63 W V2A	M63 110/ V2A	5923879	2046 74 6		330
SV63 W V4A	M63 110/ V4A	5924340	2046 77 6		331
SV63W FT	M63 100/ St / FT	5782490	2046 62 6		330
SV63W SW	M63 100/ St / L	5781868	2046 58 8		328
SVE 41 FT	47x39,4/ St / FT	5939214	1123 12 1		380
SVE 41 G	47x39,4/ St / G	5939221	1123 12 4		380
SVE 41 V2A	47x39,4/ V2A	5939238	1123 12 6		380
SVE 41 V4A	47x39,4/ V4A	5939245	1123 12 8		380
SVM16 W ALU	M16 35/ Al	5926252	2046 05 2		332
SVM16 W G	M16 26/ St / G	5924999	2046 87 5		326
SVM16W FT	M16 26/ St / FT	5781912	2046 55 3		329
SVM16W SW	M16 26/ St / L	5781295	2046 52 2		328
SVM20 W ALU	M20 35/ Al	5926269	2046 05 3		332
SVM20 W G	M20 30/ St / G	5925002	2046 87 6		326
SVM20W FT	M20 30/ St / FT	5781929	2046 55 4		329
SVM20W SW	M20 30/ St / L	5781301	2046 52 3		328
SVM25 W ALU	M25 45/ Al	5926276	2046 05 4		332
SVM25 W G	M25 40/ St / G	5925019	2046 87 7		326
SVM25W FT	M25 40/ St / FT	5781967	2046 55 6		329
SVM25W SW	M25 40/ St / L	5781318	2046 52 4		328
SVM32 W ALU	M32 45/ Al	5926283	2046 05 5		332
SVM32 W G	M32 40/ St / G	5925026	2046 87 8		326
SVM32W FT	M32 40/ St / FT	5781974	2046 55 7		329
SVM32W SW	M32 40/ St / L	5781325	2046 52 5		328
SVM40 W ALU	M40 45/ Al	5926290	2046 05 6		332
SVM40 W G	M40 45/ St / G	5925033	2046 87 9		326
SVM40W FT	M40 45/ St / FT	5781981	2046 55 8		329
SVM40W SW	M40 45/ St / L	5781363	2046 52 6		328
SVM50 W ALU	M50 55/ Al	5926306	2046 05 7		332
SVM50 W G	M50 54/ St / G	5925040	2046 88 0		326
SVM50W FT	M50 54/ St / FT	5782018	2046 55 9		329
SVM50W SW	M50 54/ St / L	5781370	2046 52 7		328
SVM63 W ALU	M63 55/ Al	5926313	2046 05 8		332
SVM63 W G	M63 60/ St / G	5925057	2046 88 1		326
SVM63W FT	M63 60/ St / FT	5782025	2046 56 0		329
SVM63W SW	M63 60/ St / L	5781387	2046 52 8		328
T 100	/ PP	5246794	2007 07 7		165
				/pc.	
T 100 2MSD RO	/ PP	5615897	2007 82 3		178
T 100 2MSD WS	/ PP	5615880	2007 82 1		178
T 100 4MSD WS	/ PP	5615903	2007 82 5		179
T 100 D 2MSD RO	/ PP	5654575	2007 82 4		179
T 100 D 4MSD WS	/ PP	5654643	2007 82 9		180
T 100 D MSD2A	/ PP	5654582	2007 82 6		179
T 100 E 4-5	Pastel orange 17 / PP	5930143	7205 51 0		181
				/100 pc.	
T 100 F	/ PP	5286547	2007 34 7		165
T 100 HEB	/ PP	5392828	2007 59 0		165
T 100 KL	/ PP	5441212	2007 43 6		165
T 100 M25-M32	/ PP	5470632	2007 08 1		165
T 100 OE	/ PP	5246855	2007 25 5		166
T 100 RO-LGR	/ PP	5303282	2007 64 4		165
T 100 RW	/ PP	5286677	2007 53 3		165
				/pc.	
T 100 WB 1W3 1S3	/ PP	5615859	2007 81 5		174
T 100 WB 1W3 2S3	/ PP	5615866	2007 81 7		174
T 100 WB 2S3	/ PP	5615828	2007 80 9		173
T 100 WB 2s4	/ PP	5847533	2007 84 8		176
T 100 WB 2s5	/ PP	5847540	2007 85 2		176
T 100 WB 2W3 2S3	/ PP	5615873	2007 81 9		175
T 100 WB 2W3 4S3	/ PP	5654551	2007 82 0		175
T 100 WB 3S3	/ PP	5615842	2007 81 3		173
T 100 WB 3S3 1S4	/ PP	5847526	2007 84 4		176
T 100 WB 4S3	/ PP	5615835	2007 81 1		173
T 100 WB 4s5	/ PP	5847557	2007 85 6		177
T 100 WB 6S 3x2	/ PP	5854203	2007 81 4		174
T 100 WB 6S3	/ PP	5654568	2007 82 2		175
T 100 WB3	/ PP	5615811	2007 80 7		172
T 100 WB5	/ PP	5847519	2007 84 0		172
T 100 ZE IP30	/ PP	5615781	2007 80 5		172
				/100 pc.	
T 160	/ PP/GF	5246800	2007 09 3		165
				/pc.	
T 160 E 10-5	Pastel orange 5/ PP	5930167	7205 52 4		181
T 160 E 16-5	Pastel orange 5/ PP	5930174	7205 52 8		181
T 160 E 4-8D	Pastel orange 5/ PP	5930150	7205 52 0		181
				/100 pc.	
T 160 F	/ PP/GF	5286554	2007 35 5		165
T 160 HEB	/ PP/GF	5392859	2007 59 3		165
T 160 KL	/ PP/GF	5682189	2007 44 0		165
T 160 M32	/ PP/GF	5470649	2007 09 7		165
T 160 OE	/ PP/GF	5246862	2007 27 1		167
T 160 RO-LGR	/ PP/GF	5303299	2007 64 9		165
T 160 RW	/ PP/GF	5286684	2007 54 1		165
T 25	/ PP	5246770	2007 02 9		164
T 25 F	/ PP	5286486	2007 31 2		164
T 25 HEB	/ PP	5392743	2007 58 1		164
T 25 KL	/ PP	5441168	2007 43 0		164
T 25 RO-LGR	/ PP	5303237	2007 62 2		164
T 25 RW	/ PP	5286615	2007 50 9		164
T 250	/ PP/GF	5246817	2007 10 9		165
T 250 F	/ PP/GF	5286561	2007 36 3		165
T 250 HEB	/ PP/GF	5392866	2007 59 6		165
T 250 KL	/ PP/GF	5682196	2007 44 4		165
T 250 OE	/ PP/GF	5246879	2007 28 7		167
T 250 RO-LGR	/ PP/GF	5303305	2007 65 7		165
T 250 RW	/ PP/GF	5286721	2007 55 4		165
T 350	/ PP/GF	5246824	2007 12 5		166
T 350 F	/ PP/GF	5286608	2007 37 1		166

Always indicate the item number when ordering.

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
T 350 HEB	/ PP/GF	5392873	2007 59 9		166
T 350 KL	/ PP/GF	5682202	2007 44 8		166
T 350 OE	/ PP/GF	5246886	2007 30 3		167
T 350 RO-LGR	/ PP/GF	5303312	2007 66 5		166
T 350 RW	/ PP/GF	5286738	2007 56 8		166
T 40	/ PP	5246756	2007 04 5		164
T 40 F	/ PP	5286493	2007 32 0		164
T 40 HEB	/ PP	5392804	2007 58 4		164
T 40 KL	/ PP	5441175	2007 43 2		164
T 40 M20	/ PP	5885375	2007 90 0		167
T 40 M20 KL	/ PP	5885382	2007 90 4		167
T 40 OE	/ PP	5246831	2007 22 3		166
T 40 RO-LGR	/ PP	5303244	2007 63 0		164
T 40 RW	/ PP	5286622	2007 51 7		164
				/pc.	
T 40 ZE IP30	/ PP	5615767	2007 80 1		172
				/100 pc.	
T 60	/ PP	5246787	2007 06 1		164
T 60 F	/ PP	5286509	2007 33 9		164
T 60 HEB	/ PP	5392811	2007 58 7		164
T 60 KL	/ PP	5441182	2007 43 4		164
T 60 M20	/ PP	5885399	2007 91 0		168
T 60 M20 KL	/ PP	5885405	2007 91 4		168
T 60 OE	/ PP	5246848	2007 23 9		166
T 60 RO-LGR	/ PP	5303275	2007 63 8		164
T 60 RW	/ PP	5286660	2007 52 5		164
				/pc.	
T 60 ZE IP30	/ PP	5615774	2007 80 3		172
T100 WS 1S3 2S3D	/ PP	5903697	2007 87 6		177
T100 WS 1S3 3S3A	/ PP	5903642	2007 87 0		177
T100 WS 1S4 2S3C	/ PP	5903666	2007 87 4		178
				/100 pc.	
T4012 M4x10 G	M4/ St / G	5052036	1134 05 1		369
T4012 O.S. M4 G	M4/ St / G	5052333	1134 26 4		369
T4012G M5x13 G	M5/ St / G	5051978	1134 04 3		369
T4012G O.S. M5 G	M5/ St / G	5052272	1134 25 6		369
T4012N M4x10 G	M4/ St / G	5051855	1134 02 7		369
T4012N M4x8 G	M4/ St / G	5491712	1134 30 2		369
T5012 M5x13 G	M5/ ST / G	5052999	1140 01 9		370
T5012 O.S. M5 G	M5/ ST / G	5053057	1140 21 3		370
TC 7-10 ZD	5-7 3-10 / St / ZD	5150732	1487 70 1		341
TC 9-20 ZD	8-9 7-20 / St / ZD	5150794	1487 72 8		341
TK 13-0	5-13 33,3/ St / ZD	5140535	1481 02 9		338
TK 19-0	14-19 33,3/ St / ZD	5140658	1481 04 5		338
TK 213	2-13 1,35/ St / ZD	5145936	1484 70 2		342
TK 6-0	2-6 33,3/ St / ZD	5140474	1481 01 0		338
TK FL G	0-24 M10/ St / ZD	5407140	1488 11 1		342
TK GS M10 M12	M10 - M12 26/ St / ZD	5407102	1486 69 8		344
TK GS M4 M8	M4 - M8 19/ St / ZD	5407096	1486 69 4		344
TK MULTI 16	8-16 1,2/ St / ZDM	5928133	1485 14 4		341
TK MULTI 24	16-24 1,2/ St / ZDM	5928140	1485 14 8		341
TK MULTI 8	2-8 1,2/ St / ZDM	5928126	1485 14 0		341
TKA	2579/ St / ZD	5407089	1486 68 2		344
TKB 13	5-13 0,8/ St / ZD	5140771	1481 21 5		340
TKB 19	14-19 0,8/ St / ZD	5140894	1481 23 1		340
TKB 6	2-6 0,8/ St / ZD	5140719	1481 20 7		340
TKC 13-20	5-13 17-20 / St / ZD	5142812	1482 46 7		339
TKC 13-25	5-13 23-25 / St / ZD	5142874	1482 47 5		339
TKC 13-32	5-13 25-32 / St / ZD	5142935	1482 48 3		339
TKC 19-20	14-19 17-20 / St / ZD	5143178	1482 60 2		339
TKC 19-25	14-19 23-25 / St / ZD	5143239	1482 61 0		339
TKC 19-32	14-19 25-32 / St / ZD	5143291	1482 62 9		339
TKC 6-20	2-6 17-20 / St / ZD	5142638	1482 40 8		339
TKC 6-25	2-6 23-25 / St / ZD	5142690	1482 41 6		339
TKCI 12-12 N	8-12 10-12 / St / ZD	5862901	1487 56 6		340
TKCI 12-14 N	8-12 12-14 / St / ZD	5862918	1487 56 8		340
TKCI 12-18 N	8-12 15-18 / St / ZD	5862925	1487 57 0		340
TKCI 12-24 N	8-12 19-24 / St / ZD	5862956	1487 57 2		340
TKCI 12-30 N	8-12 25-30 / St / ZD	5862963	1487 57 4		340
TKCI 12-5 N	8-12 4,5-5,5 / St / ZD	5862840	1487 56 0		340
TKCI 12-7 N	8-12 6-7 / St / ZD	5862857	1487 56 2		340
TKCI 12-9 N	8-12 7-9 / St / ZD	5862864	1487 56 4		340
TKCI 4-12 N	2-4 10-12 / St / ZD	5862710	1487 50 6		340
TKCI 4-14 N	2-4 12-14 / St / ZD	5862727	1487 50 8		340
TKCI 4-18 N	2-4 15-18 / St / ZD	5862734	1487 51 0		340
TKCI 4-24 N	2-4 19-24 / St / ZD	5862741	1487 51 2		340
TKCI 4-30 N	2-4 25-30 / St / ZD	5862758	1487 51 4		340
TKCI 4-5 N	2-4 4,5-5,5 / St / ZD	5862666	1487 50 0		340
TKCI 4-7 N	2-4 6-7 / St / ZD	5862673	1487 50 2		340
TKCI 4-9 N	2-4 7-9 / St / ZD	5862680	1487 50 4		340
TKCI 7-12 N	4-7 10-12 / St / ZD	5862796	1487 53 6		340
TKCI 7-14 N	4-7 12-14 / St / ZD	5862802	1487 53 8		340
TKCI 7-18 N	4-7 15-18 / St / ZD	5862819	1487 54 0		340
TKCI 7-24 N	4-7 19-24 / St / ZD	5862826	1487 54 2		340
TKCI 7-30 N	4-7 25-30 / St / ZD	5862833	1487 54 4		340
TKCI 7-5 N	4-7 4,5-5,5 / St / ZD	5862765	1487 53 0		340
TKCI 7-7 N	4-7 6-7 / St / ZD	5862772	1487 53 2		340
TKCI 7-9 N	4-7 7-9 / St / ZD	5862789	1487 53 4		340
TKCI-A	12-20 37/ St / ZD	5407133	1487 49 6		340
TKCU 13-20	7-13 17-20 / St / ZD	5144854	1484 07 9		340
TKCU 13-25	7-13 23-25 / St / ZD	5144915	1484 08 7		340
TKCU 13-32	7-13 25-32 / St / ZD	5144977	1484 09 5		340
TKCU 19-20	14-19 17-20 / St / ZD	5145035	1484 13 3		340
TKCU 19-25	14-19 23-25 / St / ZD	5145097	1484 14 1		340
TKCU 19-32	14-19 25-32 / St / ZD	5145158	1484 16 8		340
TKCU 7-20	3-6,5 17-20 / St / ZD	5144670	1484 00 1		340
TKCU 7-25	3-6,5 23-25 / St / ZD	5144731	1484 02 8		340
TKCU 7-32	3-6,5 25-32 / St / ZD	5144793	1484 03 6		340
TKD 16	M6x16/ St / ZD	5148814	1486 61 6		344
TKD 25	M6x25/ St / ZD	5148876	1486 62 4		344
TKD 38	M6x38/ St / ZD	5148937	1486 63 2		344
TKD 9	M6x9/ St / ZD	5148753	1486 60 8		344
TKD G	M6 0,22/ St / ZD	5148999	1486 67 5		344
TKG 13-6	7-13 0,45/ St / ZD	5144373	1483 45 5		338
TK-G 16	10-16 38/ St / ZD	5407041	1481 11 4		338
TKG 19-6	14-19 0,45/ St / ZD	5144434	1483 46 3		338
TK-G 20	17-20 38/ St / ZD	5407072	1481 12 0		338
TK-G 4	2-4 28/ St / ZD	5407027	1481 10 2		338
TKG 7-6	3-6,5 0,45/ St / ZD	5144311	1483 44 7		338
TK-G 9	5-9 38/ St / ZD	5407034	1481 10 8		338
				/pair	
TKH-L-25 FT	25/ ST / FT	6579259	6355 81 2		375
TKH-S-30 FT	30/ ST / FT	6114610	6355 80 4		375
				/100 pc.	
TKI 13-6	7-13 0,45/ St / ZD	5144557	1483 58 7		338
TKI 19-6	14-19 0,45/ St / ZD	5144618	1483 59 5		338
TKI 7-6	3-6,5 0,45/ St / ZD	5144496	1483 57 9		338
TKK 6-240	2-6 240/ St / ZD	5140955	1481 40 1		338
TKK 6-365	2-6 365/ St / ZD	5141013	1481 42 8		338
TKK13-240	5-13 240/ St / ZD	5141075	1481 45 2		338
TKK13-365	5-13 365/ St / ZD	5141136	1481 46 0		338
TKK19-240	14-19 240/ St / ZD	5141310	1481 53 3		338
TKK19-365	14-19 365/ St / ZD	5141372	1481 54 1		338
TKL 4	1,5-4 52/ St / ZD	5146353	1485 10 5		341
TKL 6	4-6 54/ St / ZD	5146414	1485 11 3		341
TKR 13-10	5-13 M10/ St / ZD	5142218	1482 08 4		339
TKR 13-6	5-13 M6/ St / ZD	5142096	1482 06 8		339
TKR 13-8	5-13 M8/ St / ZD	5142157	1482 07 6		339
TKR 19	14-19 0,9/ St / ZD	5141617	1481 74 6		338
TKR 19-6	14-19 M6/ St / ZD	5142270	1482 11 4		339
TKR 19-8	14-19 M8/ St / ZD	5142331	1482 12 2		339
TKR 6	2-6 0,9/ St / ZD	5141433	1481 70 3		338
TKR 9	5-9 0,9/ St / ZD	5141495	1481 71 1		338
TKS 13-25	5-13 18-25 / St / ZD	5143598	1483 10 2		339
TKS 13-32	5-13 28-32 / St / ZD	5143659	1483 11 0		339
TKS 13-37	5-13 35-37 / St / ZD	5143710	1483 12 9		339
TKS 13-42	5-13 37-42 / St / ZD	5143772	1483 13 7		339

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Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
TKS 19-25	14-19 18-25 / St / ZD	5144076	1483 30 7		339
TKS 19-32	14-19 28-32 / St / ZD	5144137	1483 31 5		339
TKS 19-37	14-19 35-37 / St / ZD	5144199	1483 32 3		339
TKS 213-25	2-13 18-25 / St / ZD	5145998	1484 81 8		342
TKS 213-32	2-13 28-32 / St / ZD	5146056	1484 82 6		342
TKS 213-37	2-13 35-37 / St / ZD	5146117	1484 83 4		342
TKS 213-42	2-13 37-42 / St / ZD	5146179	1484 84 2		342
TKS 6-25	2-6 18-25 / St / ZD	5143352	1483 01 3		339
TKS 6-32	2-6 28-32 / St / ZD	5143413	1483 02 1		339
TKS 6-37	2-6 35-37 / St / ZD	5143475	1483 04 8		339
TKS 6-42	2-6 37-42 / St / ZD	5143536	1483 05 6		339
				/pair	
TKS-L-25 FT	25/ ST / FT	6579075	6355 80 8		374
TKS-S-30 FT	30/ ST / FT	6114498	6355 80 0		374
				/100 pc.	
TKSU 13-25	7-13 18-25 / St / ZD	5145455	1484 40 0		339
TKSU 13-32	7-13 28-32 / St / ZD	5145516	1484 41 9		339
TKSU 13-37	7-13 35-37 / St / ZD	5145578	1484 42 7		339
TKSU 13-42	7-13 37-42 / St / ZD	5145639	1484 43 5		339
TKSU 19-25	14-19 18-25 / St / ZD	5145691	1484 50 8		339
TKSU 19-32	14-19 28-32 / St / ZD	5145752	1484 51 6		339
TKSU 19-37	14-19 35-37 / St / ZD	5145813	1484 52 4		339
TKSU 7-25	3-6,5 18-25 / St / ZD	5145219	1484 30 3		339
TKSU 7-32	3-6,5 28-32 / St / ZD	5145271	1484 31 1		339
TKSU 7-37	3-6,5 35-37 / St / ZD	5145332	1484 33 8		339
TKSU 7-42	3-6,5 37-42 / St / ZD	5145394	1484 34 6		339
TKT	70,45/ St / ZD	5149231	1486 86 1		344
				/pc.	
TV WB SW	/ PA	5784784	2007 86 0		178
TV WB WS	/ PA	5784791	2007 86 5		178
				/100 pc.	
U 15 GS	153000/ St / G	5025399	2003 26 5		195
U 20 GS	202500/ St / G	5292319	2004 67 6		195
U 25 GS	252000/ St / G	5025450	2003 26 9		195
U 30 GS	302000/ St / G	5292371	2004 68 0		195
U 35 GS	351500/ St / G	5027676	2003 27 3		195
U 40 GS	401000/ St / G	5027737	2003 27 7		195
UG 60 D	Concealed Black/ PS	5000204	2003 01 5		192
UG 60 D NL	Concealed Black/ PS	5003694	2003 03 1		192
UG 60 DOS	Concealed Black/ PS	5018254	2003 05 8		193
UG 60 FD	White/ PS	5024194	2003 22 3		194
UG 60 PA 12	Concealed Red/ PS	5027911	2003 28 7		195
UG 60 PA 24	Concealed Red/ PS	5028031	2003 29 5		196
UG 60 SD	Concealed Red/ PE	5029298	2003 31 7		196
UG 60 VD	Concealed Black/ PS	5002314	2003 01 9		192
UG 60 VD NL	Black 62/ PS	5013457	2003 03 5		193
UG 60 VK	Concealed Black/ PS	5003571	2003 02 3		192
UG AS	Concealed Black/ PS	5021377	2003 21 2		192
UG UD	White/ PS	5024316	2003 23 6		195
UG UD	White/ PS	5024316	2003 23 6		200
				/pc.	
UG-UPM1	Natural	5406075	6119 94 0		198
UG-UPM2	Natural	5406082	6119 94 1		198
UG-UPM3	Natural	5406112	6119 94 3		198
				/100 pc.	
UV 100 D	Concealed 130/ PS	5024439	2003 24 4		195
UV 100 K	Concealed Black/ PS	5023715	2003 11 8		194
UV 150 D	Concealed 200/ PS	5024491	2003 24 8		195
UV 150 K	Concealed Black/ PS	5023777	2003 12 4		194
UV 200 D	Concealed 260/ PS	5025276	2003 25 2		195
UV 200 K	Concealed Black/ PS	5023951	2003 13 0		194
UV 250 D	Concealed 328/ PS	5025337	2003 25 6		195
UV 250 K	Concealed Black/ PS	5024071	2003 13 6		194

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
UV 70 D	Black 36/ PS	5013518	2003 04 3		193
UV 70 D NL	Concealed Black/ PS	5013570	2003 04 7		193
UV 70 FD	White/ PS	5024255	2003 22 7		194
UV 70 PA 12	Concealed Red/ PS	5027973	2003 29 1		196
UV 70 PA 24	Concealed Red/ PS	5028390	2003 29 9		196
UV 70 SD	Concealed Red/ PE	5032533	2003 32 1		196
UV 80 D	Concealed 102/ PS	5024378	2003 24 0		195
UV 80 FD	White/ PS	5291909	2004 63 4		195
UV 80 K	Concealed Black/ PS	5020479	2003 11 2		194
UW AD	Concealed White/ PS	5024132	2003 21 8		194
UW ASD	Concealed Red/ PE	5032595	2003 32 5		197
UWA	Concealed Cream/ PS	5022633	2003 08 2		194
VTEC EX M12 SW	M12 x 1,5 Black/ PA	5596295	2050 30 7		220
VTEC EX M16 SW	M16 x 1,5 Black/ PA	5594857	2050 31 5		220
VTEC EX M20 SW	M20 x 1,5 Black/ PA	5594734	2050 32 3		220
VTEC EX M25 SW	M25 x 1,5 Black/ PA	5594673	2050 33 1		220
VTEC EX M32 SW	M32 x 1,5 Black/ PA	5594611	2050 35 8		220
VTEC EX M40 SW	M40 x 1,5 Black/ PA	5315131	2050 36 6		220
VTEC EX M50 SW	M50 x 1,5 Black/ PA	5316695	2050 37 4		220
VTEC EX M63 SW	M63 x 1,5 Black/ PA	5373391	2050 38 2		220
VTEC EX PG11 SW	Pg 11 Black/ PA	5907572	2050 02 1		220
VTEC EX PG13.5SW	Pg 13,5 Black/ PA	5830290	2050 04 8		220
VTEC EX PG16 SW	Pg 16 Black/ PA	5622093	2050 05 6		220
VTEC EX PG21 SW	Pg 21 Black/ PA	5620952	2050 06 4		220
VTEC EX PG29 SW	Pg 29 Black/ PA	5618973	2050 07 2		220
VTEC EX PG36 SW	Pg 36 Black/ PA	5615071	2050 08 0		220
VTEC EX PG42 SW	Pg 42 Black/ PA	5612490	2050 09 9		220
VTEC EX PG48 SW	Pg 48 Black/ PA	5606017	2050 10 2		220
VTEC EX PG7 SW	Pg 7 Black/ PA	5622819	2050 00 5		220
VTEC EX PG9 SW	Pg 9 Black/ PA	5907633	2050 01 3		220
VTEC EXL PG11 SW	Pg 11 Black/ PA	5601210	2050 15 3		221
VTEC EXL PG13 SW	Pg 13,5 Black/ PA	5600855	2050 16 1		221
VTEC EXL PG16 SW	Pg 16 Black/ PA	5212232	2050 18 8		221
VTEC EXL PG21 SW	Pg 21 Black/ PA	5208631	2050 19 6		221
VTEC EXL PG9 SW	Pg 9 Black/ PA	5829997	2050 14 5		221
V-TEC KA PG16LGR	PG 16 Light grey/ PA	5313458	2024 86 1		219
V-TEC L PG11 LGR	Pg 11 Light grey/ PA	5839651	2024 30 6		219
V-TEC L PG11 MS	Pg 11 600/ CuZn / N	5840855	2085 74 7		247
V-TEC L PG11 SGR	Pg 11 Silver grey/ PA	5843016	2024 19 5		219
V-TEC L PG13 LGR	Pg 13,5 Light grey/ PA	5839712	2024 31 4		219
V-TEC L PG13 MS	Pg 13,5 200/ CuZn / N	5840916	2085 75 5		247
V-TEC L PG13 SGR	Pg 13,5 Silver grey/ PA	5843078	2024 20 9		219
V-TEC L PG16 LGR	Pg 16 Light grey/ PA	5839774	2024 32 2		219
V-TEC L PG16 MS	Pg 16 300/ CuZn / N	5840978	2085 76 3		247
V-TEC L PG16 SGR	Pg 16 Silver grey/ PA	5843139	2024 21 7		219
V-TEC L PG21 LGR	Pg 21 Light grey/ PA	5839835	2024 33 0		219
V-TEC L PG21 MS	Pg 21 200/ CuZn / N	5841036	2085 77 1		247
V-TEC L PG21 SGR	Pg 21 Silver grey/ PA	5843191	2024 22 5		219
V-TEC L PG29 LGR	Pg 29 Light grey/ PA	5839897	2024 34 9		219
V-TEC L PG29 MS	Pg 29 100/ CuZn / N	5841098	2085 79 8		247
V-TEC L PG29 SGR	Pg 29 Silver grey/ PA	5843252	2024 23 3		219
V-TEC L PG36 LGR	Pg 36 Light grey/ PA	5839958	2024 35 7		219
V-TEC L PG36 SGR	Pg 36 Silver grey/ PA	5843313	2024 24 1		219
V-TEC L PG42 LGR	Pg 42 Light grey/ PA	5840015	2024 36 5		219
V-TEC L PG48 LGR	Pg 48 Light grey/ PA	5840077	2024 37 3		219
V-TEC L PG48 MS	Pg 48 40/ CuZn / N	5841210	2085 83 6		247
V-TEC L PG7 LGR	Pg 7 Light grey/ PA	5839538	2024 28 4		219
V-TEC L PG7 MS	Pg 7 600/ CuZn / N	5840732	2085 72 0		247
V-TEC L PG7 SGR	Pg 7 Silver grey/ PA	5842897	2024 17 9		219
V-TEC L PG9 LGR	Pg 9 Light grey/ PA	5839590	2024 29 2		219
V-TEC L PG9 MS	Pg 9 600/ CuZn / N	5840794	2085 73 9		247
V-TEC L PG9 SGR	Pg 9 Silver grey/ PA	5842958	2024 18 7		219
V-TEC M KA M20	M20x1,5 Light grey/ PA	5502456	2024 82 9		215
V-TEC PG11 LGR	Pg 11 Light grey/ PA	5446897	2024 72 1		218

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Always indicate the item number when ordering.

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
V-TEC PG11 MS	Pg 11 600/ CuZn / N	5190035	2085 62 3		247
V-TEC PG11 SGR	Pg 11 Silver grey/ PA	5160816	2022 62 1		218
V-TEC PG11+ LGR	Pg 11 Light grey/ PA	5861058	2024 65 9		217
V-TEC PG13 LGR	Pg 13,5 Light grey/ PA	5446958	2024 74 8		218
V-TEC PG13 MS	Pg 13,5 500/ CuZn / N	5190097	2085 63 1		247
V-TEC PG13,5+LGR	Pg 13,5 Light grey/ PA	5861065	2024 66 1		217
V-TEC PG13.5 SGR	Pg 13,5 Silver grey/ PA	5160878	2022 64 8		218
V-TEC PG16 LGR	Pg 16 Light grey/ PA	5447016	2024 75 6		218
V-TEC PG16 MS	Pg 16 300/ CuZn / N	5190158	2085 65 8		247
V-TEC PG16 SGR	Pg 16 Silver grey/ PA	5160939	2022 65 6		218
V-TEC PG16+ LGR	Pg 16 Light grey/ PA	5861072	2024 66 3		217
V-TEC PG21 LGR	Pg 21 Light grey/ PA	5447078	2024 76 4		218
V-TEC PG21 MS	Pg 21 200/ CuZn / N	5448631	2085 66 6		247
V-TEC PG21 SGR	Pg 21 Silver grey/ PA	5160991	2022 66 4		218
V-TEC PG21+ LGR	Pg 21 Light grey/ PA	5861089	2024 66 5		217
V-TEC PG29 LGR	Pg 29 Light grey/ PA	5447139	2024 77 2		218
V-TEC PG29 MS	Pg 29 120/ CuZn / N	5448693	2085 67 4		247
V-TEC PG29 SGR	Pg 29 Silver grey/ PA	5161059	2022 67 2		218
V-TEC PG29+ LGR	Pg 29 Light grey/ PA	5861096	2024 66 7		217
V-TEC PG36 LGR	Pg 36 Light grey/ PA	5447191	2024 78 0		218
V-TEC PG36 MS	Pg 36 60/ CuZn / N	5448754	2085 68 2		247
V-TEC PG36 SGR	Pg 36 Silver grey/ PA	5161110	2022 68 0		218
V-TEC PG36+ LGR	Pg 36 Light grey/ PA	5861102	2024 66 9		217
V-TEC PG42 LGR	Pg 42 Light grey/ PA	5447252	2024 79 9		218
V-TEC PG42 MS	Pg 42 15/ CuZn / N	5448815	2085 69 0		247
V-TEC PG42 SGR	Pg 42 Silver grey/ PA	5161172	2022 69 9		218
V-TEC PG42+ LGR	Pg 42 Light grey/ PA	5861119	2024 67 1		217
V-TEC PG48 LGR	Pg 48 Light grey/ PA	5447313	2024 80 2		218
V-TEC PG48 MS	Pg 48 40/ CuZn / N	5448877	2085 70 4		247
V-TEC PG48 SGR	Pg 48 Silver grey/ PA	5161233	2022 70 2		218
V-TEC PG48+ LGR	Pg 48 Light grey/ PA	5861126	2024 67 3		217
V-TEC PG7 LGR	Pg 7 Light grey/ PA	5446774	2024 70 5		218
V-TEC PG7 MS	Pg 7 500/ CuZn / N	5189916	2085 60 7		247
V-TEC PG7 SGR	Pg 7 Silver grey/ PA	5160694	2022 60 5		218
V-TEC PG7+ LGR	Pg 7 Light grey/ PA	5861003	2024 65 5		217
V-TEC PG9 LGR	Pg 9 Light grey/ PA	5446835	2024 71 3		218
V-TEC PG9 MS	Pg 9 600/ CuZn / N	5189978	2085 61 5		247
V-TEC PG9 SGR	Pg 9 Silver grey/ PA	5160755	2022 61 3		218
V-TEC PG9+ LGR	Pg 9 Light grey/ PA	5861041	2024 65 7		217
				/pc.	
V-TEC RA		5033912	3010 20 1		221
V-TEC RA SET		5034278	3010 27 5		221
V-TEC ST15	M12 15	5034032	3010 23 6		221
V-TEC ST20	M16 20	5034094	3010 24 4		221
V-TEC ST24	M20 24	5034155	3010 25 2		221
V-TEC ST29	M25 29	5034216	3010 26 0		221
				/100 pc.	
V-TEC VM L12 LGR	M12x1,5 Light grey/ PA	5004127	2022 94 3		215
V-TEC VM L12 SGR	M12 x 1,5 Silver grey/ PA	5003786	2022 92 1		215
V-TEC VM L12 SW	M12x1,5 Black/ PA	5004363	2022 96 4		215
V-TEC VM L16 LGR	M16x1,5 Light grey/ PA	5004141	2022 94 5		215
V-TEC VM L16 SGR	M16 x 1,5 Silver grey/ PA	5003823	2022 92 4		215
V-TEC VM L16 SW	M16x1,5 Black/ PA	5004370	2022 96 6		215
V-TEC VM L20 LGR	M20x1,5 Light grey/ PA	5004158	2022 94 7		215
V-TEC VM L20 SGR	M20 x 1,5 Silver grey/ PA	5003885	2022 92 6		215
V-TEC VM L20 SW	M20x1,5 Black/ PA	5004387	2022 96 8		215
V-TEC VM L25 LGR	M25x1,5 Light grey/ PA	5004202	2022 94 9		215
V-TEC VM L25 SGR	M25 x 1,5 Silver grey/ PA	5003908	2022 92 8		215
V-TEC VM L25 SW	M25x1,5 Black/ PA	5004424	2022 97 0		215
V-TEC VM L32 LGR	M32x1,5 Light grey/ PA	5004240	2022 95 1		215
V-TEC VM L32 SGR	M32 x 1,5 Silver grey/ PA	5003946	2022 93 0		215
V-TEC VM L32 SW	M32x1,5 Black/ PA	5004486	2022 97 2		215
V-TEC VM L40 LGR	M40x1,5 Light grey/ PA	5004257	2022 95 3		215
V-TEC VM L40 SGR	M40x1,5 Silver grey/ PA	5004004	2022 93 3		215
V-TEC VM L40 SW	M40x1,5 Black/ PA	5004493	2022 97 4		215

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
V-TEC VM L50 LGR	M50x1,5 Light grey/ PA	5004264	2022 95 5		215
V-TEC VM L50 SGR	M50x1,5 Silver grey/ PA	5004028	2022 93 5		215
V-TEC VM L50 SW	M50x1,5 Black/ PA	5004509	2022 97 6		215
V-TEC VM L63 LGR	M63x1,5 Light grey/ PA	5004301	2022 95 7		215
V-TEC VM L63 SGR	M63x1,5 Silver grey/ PA	5004066	2022 93 7		215
V-TEC VM L63 SW	M63x1,5 Black/ PA	5004547	2022 97 8		215
V-TEC VM LL16 SW	M16x1,5 Black/ PA	5812166	2022 98 5		216
V-TEC VM LL20 SW	M20x1,5 Black/ PA	5812173	2022 98 7		216
V-TEC VM LL25 SW	M25x1,5 Black/ PA	5812180	2022 98 9		216
V-TEC VM LL32 SW	M32x1,5 Black/ PA	5812197	2022 99 1		216
V-TEC VM LL40 SW	M40x1,5 Black/ PA	5812203	2022 99 3		216
V-TEC VM LL50 SW	M50x1,5 Black/ PA	5812210	2022 99 5		216
V-TEC VM LL63 SW	M63x1,5 Black/ PA	5812227	2022 99 7		216
V-TEC VM LM12 MS	M12 x 1,5 500/ CuZn / N	5810254	2086 11 1		246
V-TEC VM LM16 MS	M16 x 1,5 600/ CuZn / N	5810377	2086 11 7		246
V-TEC VM LM20 MS	M20 x 1,5 300/ CuZn / N	5810438	2086 12 3		246
V-TEC VM LM25 MS	M25 x 1,5 250/ CuZn / N	5810735	2086 12 9		246
V-TEC VM LM32 MS	M32 x 1,5 120/ CuZn / N	5810858	2086 13 5		246
V-TEC VM LM40 MS	M40 x 1,5 60/ CuZn / N	5810971	2086 14 1		246
V-TEC VM LM50 MS	M50 x 1,5 45/ CuZn / N	5811152	2086 14 7		246
V-TEC VM LM63 MS	M63 x 1,5 40/ CuZn / N	5811213	2086 15 3		246
V-TEC VM LM75MSM	M75 x 1,5 3/ CuZn / N	5858256	2086 15 6		246
V-TEC VM LM75MSR	M75 x 1,5 3/ CuZn / N	5858263	2086 15 9		246
V-TEC VM12 EMV	M12 x 1,5 500/ CuZn / N	5655565	2086 20 3		248
V-TEC VM12 LGR	M12 x 1,5 Light grey/ PA	5533177	2022 86 2		212
V-TEC VM12 MS	M12 x 1,5 500/ CuZn / N	5808992	2086 01 8		246
V-TEC VM12 SGR	M12 x 1,5 Silver grey/ PA	5532637	2022 84 3		212
V-TEC VM12 SW	M12 x 1,5 Black/ PA	5534013	2022 88 3		212
V-TEC VM12+ LGR	M12 x 1,5 Light grey/ PA	5860921	2022 76 2		213
V-TEC VM12RD LGR	M12 x 1,5 Light grey/ PA	5870968	2023 00 8		213
V-TEC VM12UV LGR	M12 x 1,5 Light grey/ PA	5896692	2022 90 0		214
V-TEC VM16 EMV	M16 x 1,5 600/ CuZn / N	5655572	2086 20 7		248
V-TEC VM16 EMV4	M16x1,5 600/ CuZn / N	5655435	2086 16 5		248
V-TEC VM16 LGR	M16 x 1,5 Light grey/ PA	5533238	2022 86 4		212
V-TEC VM16 MS	M16 x 1,5 600/ CuZn / N	5809234	2086 02 4		246
V-TEC VM16 SGR	M16 x 1,5 Silver grey/ PA	5532699	2022 84 5		212
V-TEC VM16 SW	M16 x 1,5 Black/ PA	5535638	2022 88 5		212
V-TEC VM16+ LGR	M16 x 1,5 Light grey/ PA	5860938	2022 76 4		213
V-TEC VM16RD LGR	M16 x 1,5 Light grey/ PA	5871002	2023 01 0		213
V-TEC VM16UV LGR	M16 x 1,5 Light grey/ PA	5896708	2022 90 1		214
V-TEC VM20 2x4	M20 x 1,5 Light grey/ PA	5896517	2022 11 0		214
V-TEC VM20 2x6	M20 x 1,5 Light grey/ PA	5896562	2022 11 4		214
V-TEC VM20 4x5	M20 x 1,5 Light grey/ PA	5896524	2022 11 2		214
V-TEC VM20 EMV	M20 x 1,5 250/ CuZn / N	5655589	2086 21 1		248
V-TEC VM20 EMV4	M20x1,5 250/ CuZn / N	5655480	2086 16 9		248
V-TEC VM20 LGR	M20 x 1,5 Light grey/ PA	5533658	2022 86 6		212
V-TEC VM20 MS	M20 x 1,5 250/ CuZn / N	5809418	2086 03 0		246
V-TEC VM20 OR	M20 x 1,5 Pastel orange/ PA	5875291	7205 59 4		182
V-TEC VM20 OR	M20 x 1,5 Pastel orange/ PA	5875291	7205 59 4		216
V-TEC VM20 SGR	M20 x 1,5 Silver grey/ PA	5532750	2022 84 7		212
V-TEC VM20 SW	M20 x 1,5 Black/ PA	5535690	2022 88 7		212
V-TEC VM20+ LGR	M20 x 1,5 Light grey/ PA	5860945	2022 76 6		213
V-TEC VM20RD LGR	M20 x 1,5 Light grey/ PA	5871019	2023 01 2		213
V-TEC VM20UV LGR	M20 x 1,5 Light grey/ PA	5896739	2022 90 2		214
V-TEC VM25 2x6	M25 x 1,5 Light grey/ PA	5896616	2022 12 4		214
V-TEC VM25 2x8	M25 x 1,5 Light grey/ PA	5896630	2022 12 8		214
V-TEC VM25 3x6	M25 x 1,5 Light grey/ PA	5896586	2022 12 2		214
V-TEC VM25 3x7	M25 x 1,5 Light grey/ PA	5896623	2022 12 6		214
V-TEC VM25 5x4	M25 x 1,5 Light grey/ PA	5896579	2022 12 0		214
V-TEC VM25 EMV	M25 x 1,5 250/ CuZn / N	5655596	2086 21 5		248
V-TEC VM25 EMV4	M25x1,5 250/ CuZn / N	5655497	2086 17 3		248
V-TEC VM25 LGR	M25 x 1,5 Light grey/ PA	5533719	2022 86 8		212
V-TEC VM25 MS	M25 x 1,5 250/ CuZn / N	5809593	2086 03 6		246
V-TEC VM25 OR	M25 x 1,5 Pastel orange/ PA	5875307	7205 59 7		182
V-TEC VM25 OR	M25 x 1,5 Pastel orange/ PA	5875307	7205 59 7		216
V-TEC VM25 SGR	M25 x 1,5 Silver grey/ PA	5532811	2022 84 9		212
V-TEC VM25 SW	M25 x 1,5 Black/ PA	5535751	2022 88 9		212
V-TEC VM25+ LGR	M25 x 1,5 Light grey/ PA	5860952	2022 76 8		213

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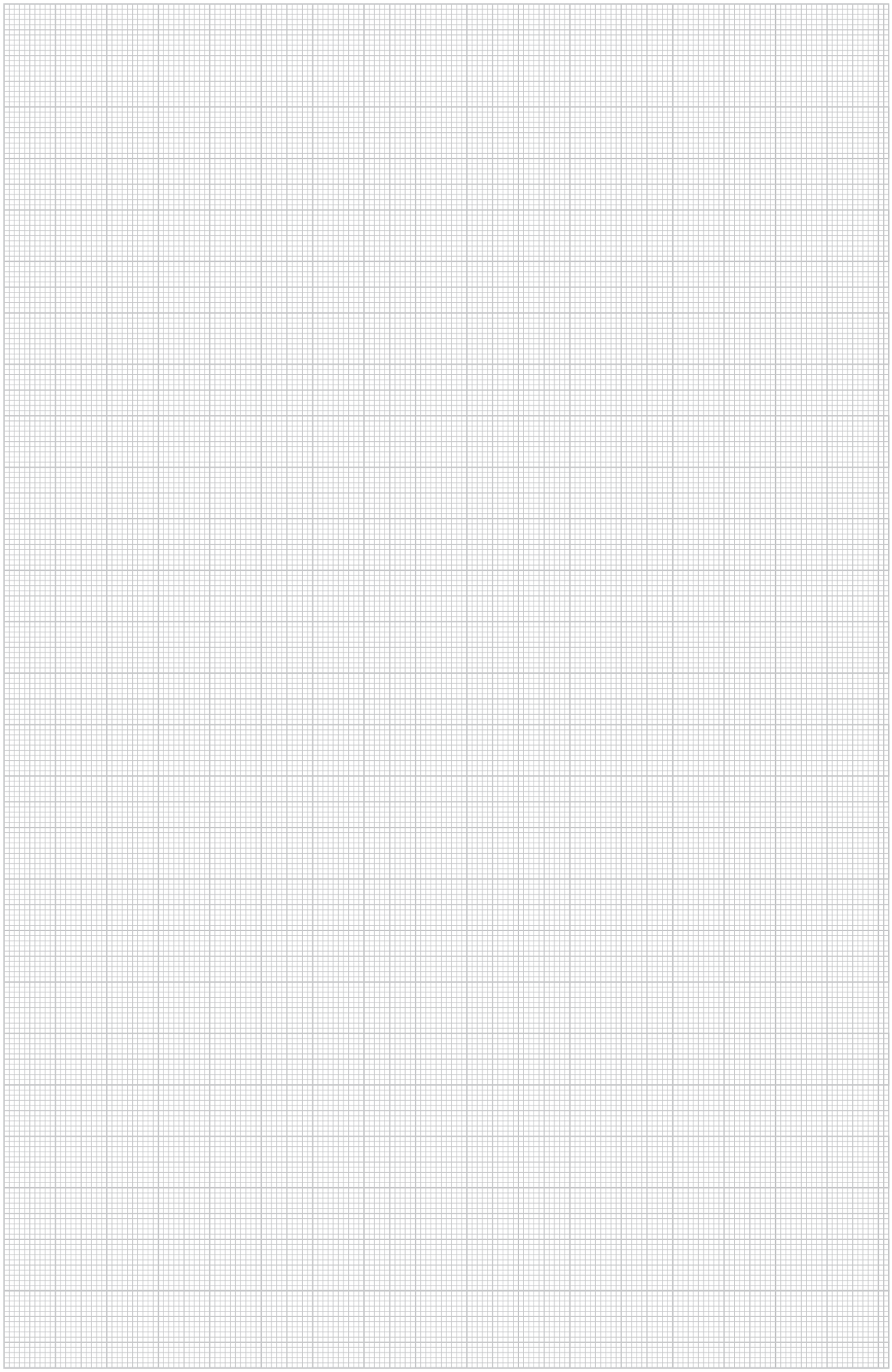
Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

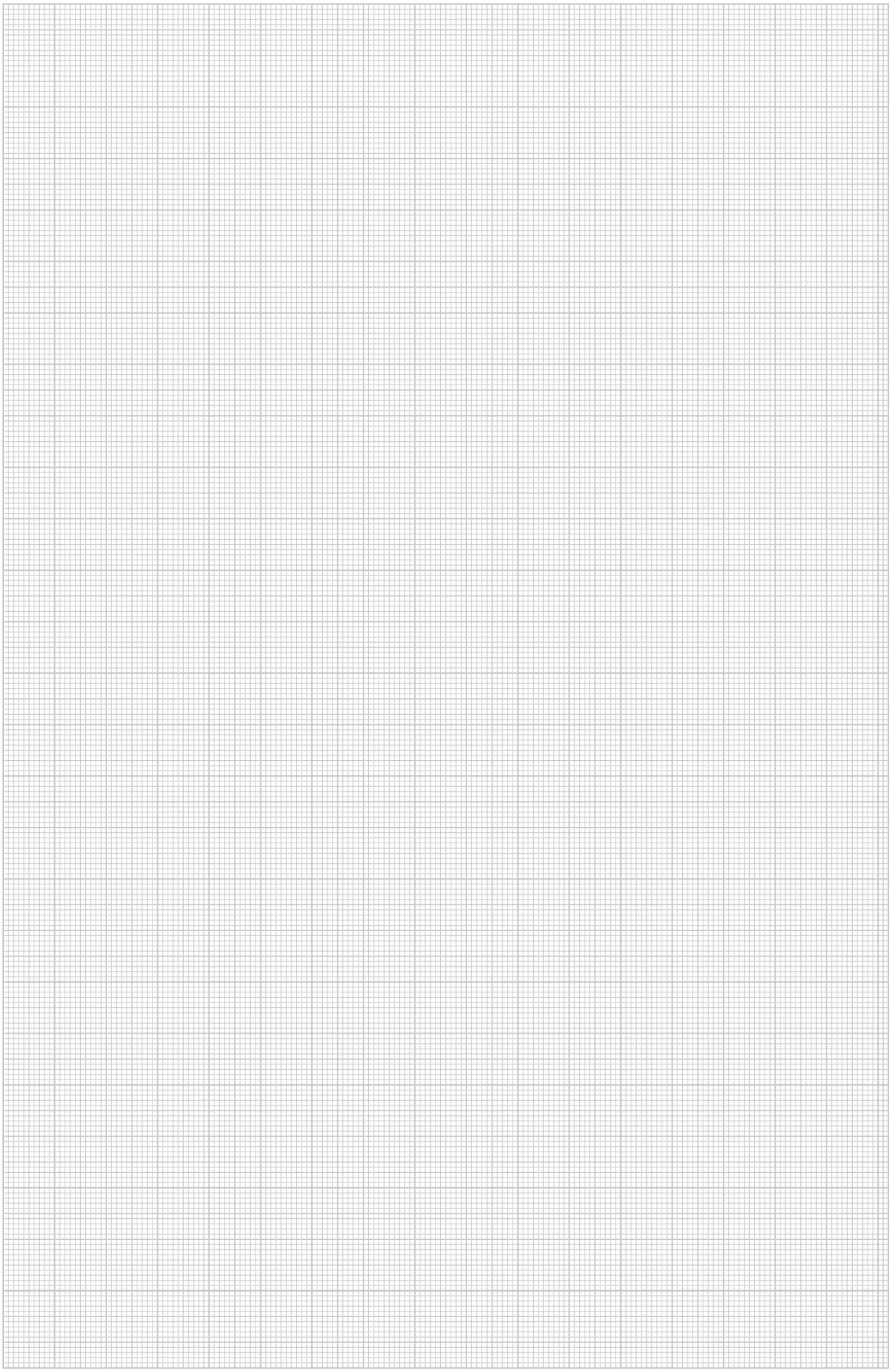
Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.	
V-TEC VM25RD LGR	M25 x 1,5 Light grey / PA	5871026	2023 01 4		213
V-TEC VM25UV LGR	M25 x 1,5 Light grey / PA	5896746	2022 90 3		214
V-TEC VM32 2x8	M32 x 1,5 Light grey / PA	5896647	2022 13 6		214
V-TEC VM32 4x8	M32 x 1,5 Light grey / PA	5896685	2022 13 8		214
V-TEC VM32 EMV	M32 x1,5 160 / CuZn / N	5655602	2086 21 9		248
V-TEC VM32 EMV-K	M32x1,5 160 / CuZn / N	5655503	2086 17 7		248
V-TEC VM32 LGR	M32 x 1,5 Light grey / PA	5533771	2022 87 0		212
V-TEC VM32 MS	M32 x 1,5 160 / CuZn / N	5809777	2086 04 2		246
V-TEC VM32 OR	M32 x 1,5 Pastel orange / PA	5810827	7205 60 0		182
V-TEC VM32 OR	M32 x 1,5 Pastel orange / PA	5810827	7205 60 0		216
V-TEC VM32 SGR	M32 x 1,5 Silver grey / PA	5532934	2022 85 1		212
V-TEC VM32 SW	M32 x 1,5 Black / PA	5538219	2022 89 1		212
V-TEC VM32+ LGR	M32 x 1,5 Light grey / PA	5860969	2022 77 0		213
V-TEC VM32RD LGR	M32 x 1,5 Light grey / PA	5871064	2023 01 6		213
V-TEC VM32UV LGR	M32 x 1,5 Light grey / PA	5896753	2022 90 4		214
V-TEC VM40 EMV	M40 x 1,5 60 / CuZn / N	5655619	2086 22 3		248
V-TEC VM40 EMV-K	M40x1,5 60 / CuZn / N	5655534	2086 18 1		248
V-TEC VM40 LGR	M40 x 1,5 Light grey / PA	5533832	2022 87 2		212
V-TEC VM40 MS	M40 x 1,5 60 / CuZn / N	5809890	2086 04 8		246
V-TEC VM40 OR	M40 x 1,5 Pastel orange / PA	5810834	7205 60 3		182
V-TEC VM40 OR	M40 x 1,5 Pastel orange / PA	5810834	7205 60 3		216
V-TEC VM40 SGR	M40 x 1,5 Silver grey / PA	5532996	2022 85 3		212
V-TEC VM40 SW	M40 x 1,5 Black / PA	5538332	2022 89 3		212
V-TEC VM40+ LGR	M40 x 1,5 Light grey / PA	5860976	2022 77 2		213
V-TEC VM40RD LGR	M40 x 1,5 Light grey / PA	5871071	2023 01 8		213
V-TEC VM40UV LGR	M40 x 1,5 Light grey / PA	5896760	2022 90 5		214
V-TEC VM50 EMV	M50 x 1,5 45 / CuZn / N	5655626	2086 22 7		248
V-TEC VM50 EMV-K	M50x1,5 45 / CuZn / N	5655541	2086 18 5		248
V-TEC VM50 LGR	M50 x 1,5 Light grey / PA	5533894	2022 87 4		212
V-TEC VM50 MS	M50 x 1,5 45 / CuZn / N	5810070	2086 05 4		246
V-TEC VM50 SGR	M50 x 1,5 Silver grey / PA	5533054	2022 85 5		212
V-TEC VM50 SW	M50 x 1,5 Black / PA	5538455	2022 89 5		212
V-TEC VM50+ LGR	M50 x 1,5 Light grey / PA	5860983	2022 77 4		213
V-TEC VM50RD LGR	M50 x 1,5 Light grey / PA	5871088	2023 02 0		213
V-TEC VM50UV LGR	M50 x 1,5 Light grey / PA	5896777	2022 90 6		214
V-TEC VM63 EMV	M63 x 1,5 45 / CuZn / N	5655657	2086 23 1		248
V-TEC VM63 EMV-K	M63x1,5 45 / CuZn / N	5655558	2086 18 9		248
V-TEC VM63 LGR	M63 x 1,5 Light grey / PA	5533955	2022 87 6		212
V-TEC VM63 MS	M63 x 1,5 40 / CuZn / N	5810131	2086 06 0		246
V-TEC VM63 SGR	M63 x 1,5 Silver grey / PA	5533115	2022 85 7		212
V-TEC VM63 SW	M63 x 1,5 Black / PA	5538516	2022 89 7		212
V-TEC VM63+ LGR	M63 x 1,5 Light grey / PA	5860990	2022 77 6		213
V-TEC VM63RD LGR	M63 x 1,5 Light grey / PA	5871125	2023 02 2		213
V-TEC VM63UV LGR	M63 x 1,5 Light grey / PA	5896784	2022 90 7		214
WBDHE 41 FT	134,35x110 / St / FT	5939276	1123 19 1		377
WBDHE 41 G	134,35x110 / St / G	5939283	1123 19 3		377
WBDHE 41 V2A	134,35x110 / V2A	5939290	1123 19 5		377
WBDHE 41 V4A	134,35x110 / V4A	5939306	1123 19 7		377
WN 7855 A 10	10 4000 / St / GTP	5029113	1043 19 6		303
WN 7855 A 12	12 2000 / St / GTP	5029175	1043 22 6		303
WN 7855 A 14	14 2000 / St / GTP	5029236	1043 24 2		303
WN 7855 A 2	2 4000 / St / GTP	5028451	1043 01 3		303
WN 7855 A 2.5	2,5 4000 / St / GTP	5028512	1043 02 1		303
WN 7855 A 4	4 4000 / St / GTP	5028697	1043 06 4		303
WN 7855 A 4.5	4,5 4000 / St / GTP	5028758	1043 07 2		303
WN 7855 A 5	5 4000 / St / GTP	5028819	1043 08 0		303
WN 7855 A 6	6 4000 / St / GTP	5028871	1043 10 2		303
WN 7855 A 7	7 4000 / St / GTP	5028932	1043 12 9		303
WN 7855 A 8	8 4000 / St / GTP	5028994	1043 14 5		303
WN 7855 A 9	9 4000 / St / GTP	5029052	1043 16 1		303
WN 7855 B 10	10 2400 / St / GTP	5030133	1044 19 2		304
WN 7855 B 12	12 1800 / St / GTP	5030195	1044 21 4		304
WN 7855 B 14	14 1200 / St / GTP	5030256	1044 23 0		304
WN 7855 B 16	16 1200 / St / GTP	5030317	1044 25 7		304
WN 7855 B 3	3 5000 / St / GTP	5029595	1044 04 4		304
WN 7855 B 4	4 5000 / St / GTP	5029717	1044 06 0		304
WN 7855 B 4.5	4,5 5000 / St / GTP	5029779	1044 07 9		304
WN 7855 B 5	5 5000 / St / GTP	5029830	1044 08 7		304
WN 7855 B 6	6 5000 / St / GTP	5029892	1044 10 9		304
WN 7855 B 7	7 4800 / St / GTP	5029953	1044 12 5		304
WN 7855 B 8	8 4800 / St / GTP	5030010	1044 14 1		304
WN 7855 B 9	9 2400 / St / GTP	5030072	1044 17 6		304

01_VBS_Masterkatalog_Länder_2012 / en / 26/04/2012 (LLExport_01445)

Always indicate the item number when ordering.



01_VBS_Masterkatalog_Länder_2012 / en / 26/04/2012 (LLExport_01445)



01_VBS_Masterkatalog_Länder_2012 / en / 24/04/2012 (LLExport_01445) / 24/04/2012

Terms and conditions of sale and delivery of OBO BETTERMANN GmbH & Co. KG, OBO BETTERMANN Projekt und Systemtechnik GmbH and OBO Befestigungselemente GmbH, Menden.

1. All our supplies and services shall be governed exclusively by the following terms and conditions, including our additional terms and conditions for cable tray business transactions. Any terms and conditions of business and purchasing of the customer shall be valid only if we have acknowledged them in writing. Our quotations are without engagement; they are mere invitations to submit contract offers. Any and all transactions and agreements, including those entered into by our employees and agents shall only be binding upon our written confirmation or invoicing. The foregoing provision shall also apply to any modifications of the agreed formal requirements.

2. The documents and data pertaining to the quotation, such as illustrations, brochures, drawings, dimensions, loading capacity values and weight details are approximate only, unless they are expressly stipulated to be binding.

Samples are non-binding samples for inspection. Any purchase according to sample will be subject to customary deviations and deviations resulting from normal production processes. The properties of the sample shall be no guaranteed quality of the purchase object unless expressly stated otherwise in the confirmation of order. Samples must be returned to us at the latest within four weeks in perfect condition. If they are not returned within this period in proper condition, we shall be entitled to charge the purchase price for the sample in accordance with our current price list. All information on our products, in particular the illustrations, drawings, weight, dimension and performance data included in our quotations and printed matter shall be regarded as approximate average values and shall not represent any quality guarantee.

With regard to products made according to customer drawings, samples and other instructions of the customer, we will not provide any warranty nor assume any liability for the due and proper functioning of the product or for any other defects if and to the extent they are based upon the customer's specifications. The customer shall indemnify us from any third party claims, including claims for product liability as may be asserted against us for damages resulting from the products unless we have caused such damages by intent or gross negligence. The customer shall warrant that the manufacture and supply of products made in accordance with his instructions will not infringe any proprietary rights of third parties. Should any proprietary rights be asserted against us, we shall be entitled, without any legal review of the third party claims, to withdraw from the contract after hearing the customer, unless the third party withdraws the claims asserted against us under its proprietary rights within eight days by written declaration. The customer shall compensate us for any damage sustained as a result of the assertion of proprietary rights. In case of withdrawal, the work we have carried out so far shall be remunerated. Further rights under the statutory provisions shall not be affected thereby.

Any moulds, tools and design data produced by us for the execution of the order shall be our exclusive property. Unless expressly agreed otherwise, the customer shall not have any claims thereto, even if he has contributed to the costs of producing any such moulds, tools and design data.

3. The packing, shipping route and means of transportation shall be left to our discretion in the absence of any other agreements. They shall be charged at their cost price. We will take back undamaged cases, when being returned carriage paid, at 2/3 of the amount invoiced. The one-way or pool pallets used for transport shall be either exchanged upon taking delivery or returned. The smallest packing units stocked and listed may not be broken up for rationalisation reasons. In case of orders for different quantities, the nearest packing unit will be supplied.

We reserve the right to deviate from the agreed delivery quantity, in particular in the case of custom-made products, to a customary extent or in conformity with national or international standards. In case of a demand for adhering to a precise quantity, an express reference is necessary and subject to confirmation.

Master and call orders shall oblige the customer to accept the total quantity on which the master/call order is based. Where no particular call orders are specified in the contract, the total quantity of the master call order must be called within twelve months. If the customer fails to adhere to call deadlines, we shall be entitled to deliver and charge the total quantity in full after four weeks from written notice with reference to the consequences of any failure to call. Our rights arising from any default of the customer shall not be affected thereby.

4. Unless otherwise agreed, our prices are quoted ex works and do not include packing and insurance. The value added tax at the rate applicable on the date of dispatch will be added to our prices. The purchaser shall ensure the correctness of his VAT identification number, which he must notify to us immediately without being asked. He shall undertake to inform both us and the competent domestic tax authority without delay of any change in his name, address and VAT identification number.

Delivery shall be franco domicile within Germany, i.e. carriage and packing prepaid, if the net order value is in excess of € 1,200. For small orders below € 100 (net excluding value added tax), we shall invoice a lower quantity surcharge of € 10 (net) per order. Upon transfer of our supplies and services to a carrier or forwarding agent, at the latest upon their leaving our warehouse or supply plant, the risk shall pass to the recipient, even in case of deliveries free place of destination.

5. Delivery periods and delivery deadlines shall be approximate only unless we have expressly stated in writing that they are binding. Delivery periods shall commence upon receipt of our confirmation of order, but not before clarification of all execution details, ex place of delivery. The customer shall only be entitled to withdraw from the contract after having granted a reasonable extension of time. We reserve the right to make partial deliveries. Claims for damages and reimbursement of expenses - for any reason whatsoever - shall be subject to the provisions set out in article 10.

In the event of any circumstances that are beyond our control within the scope of normal operating risks and obstruct or make impracticable any delivery, we shall be entitled to suspend delivery by the duration of such obstruction plus a reasonable start-up period or to withdraw from the contract for the part not yet fulfilled. The purchaser can demand a statement from us as to whether we wish to deliver within a reasonable period or withdraw. If we fail to make such a statement, the purchaser may withdraw. Our notice to the purchaser shall be deemed to be sufficient evidence that we have been prevented from delivering.

Delivery time is extended in case of such events as labour disputes, strikes and lockouts, orders from the authorities, difficulties with the procurement of materials, spoiled work or post-processing, shutdowns and staff shortage as well as shortage of means of transport, and general occurrence of unforeseen events beyond our scope of influence, by the length of duration of these events.

6. Payments shall be made upon receipt of invoice less a 3% cash discount for payment within 10 days or net after 30 days from date of invoice. Erection work and all paid labour work must be paid within 10 days without deduction of any cash discount. In case of non-cash payments, the date of the credit note will be deemed to be the date of receipt of payment. Payments received shall always be credited first against costs, then against interest and then against the earliest liability. Cheques and bills of exchange shall only be accepted as means of payment.

Any payment by bill of exchange shall be subject to a prior separate and written agreement, whereby all bill costs shall be borne by the customer and no discount can be granted. The customer shall have no right to refuse performance and no right of retention - for any legal reason whatsoever - unless we have acknowledged his claim beforehand in writing or his claim has the force of law.

The customer shall only be entitled to set off claims which have the force of law, are undisputed or acknowledged by us in writing.

7. We shall retain title to the goods supplied by us until all our claims arising from our business transactions with the customer have been satisfied - current account clause - and all bills of exchange or cheques submitted for payment by the customer have been honoured.

Any treatment or processing of goods subject to our retention of title (reserved goods) shall be carried out for us as the manufacturer in accordance with § 950 BGB (German Civil Code) without any obligation on our part. If our reserved goods are to be regarded as the main item or the main item is owned by the customer, full title to the new item shall pass to us when it is created. In other cases, we shall acquire a co-ownership interest in the new item in the proportion of the sales value of our reserved goods to the other goods used for the new item at the time of processing, intermingling, joining or mixing. The customer shall take custody of our ownership or co-ownership interest free of charge; it shall be treated as reserved goods.

Before transfer of title, our goods shall be neither pledged nor assigned as collateral without our prior consent. In addition, any third party rights or pledges shall be notified to us immediately and we shall be given all details and provided all documents necessary for intervention; otherwise the customer must bear our loss. In the latter case, our total claims against the customer shall also be immediately payable.

The customer shall be entitled to sell or to use our reserved goods in the ordinary course of business subject to the condition that the relevant claims are transferred in accordance with article 8 below. This right shall lapse upon the customer's failure to promptly meet his payment obligations towards us or in the event of any cheque or bill protests or his suspension of payments. In such cases, we shall be entitled to take back the goods provisionally at the customer's expense and to sell them at our duly exercised discretion after a corresponding reminder has been sent to the customer. We will then pass the due amount to the customer's credit.

8. If our goods are sold before payment of our claim, the customer shall be obliged to retain our title against his purchaser until the goods have been paid for in full by the purchaser. The claim arising against the purchaser from such resale as well as any other ancillary rights or security interests of the customer resulting from the sale and any claims for compensation in case of damage to or destruction of our reserved property, including the relevant insurance sum shall hereby be assigned to us. We hereby accept this assignment. Where our co-ownership interest is sold, the relevant claims shall be assigned in the amount corresponding to the value of our interest.

The customer shall, at our request, inform us of his purchasers, notify them of the assignment made and provide us with any and all documents required to assert our rights.

As long as the customer meets his contractual obligations without delay, he shall be authorised to collect the claims assigned. He shall keep the amounts collected on our behalf separately and remit them to us immediately as soon and as far as our claims become due. The authorisation shall lapse in case of any cheque or bill protest of the customer or his definite suspension of payments. The customer shall bear the costs incurred for any action taken against third parties and shall advance them upon request.

If the security provided to us by the retention of title and the anticipatory assignment should exceed the claims to be secured by more than 20%, we shall, at the customer's request, release paid supplies of our choice. Upon payment of all our claims by the customer, assigned claims shall pass to the customer.

9. Any complaints for obvious defects regarding the quantity or quality of our supplies and services that are identifiable upon careful inspection shall without delay, but at the latest within the period of limitation of eight days from arrival of the goods at the address of the customer or the person appointed by him, be notified in writing to us, not to our representatives. Slight deviations in dimensions and designs within the scope of defined technical tolerances shall not give rise to any right of complaint. Any rejected goods may only be returned to us with our prior written authorisation.

In case of justified complaints within the prescribed period, we shall, at our option, take remedial action by way of subsequent performance, by rectifying the defect, supplying non-defective goods or providing a credit note for the lower value calculated.

We shall be entitled to refuse subsequent performance in accordance with the statutory provisions. If we refuse subsequent performance, if any subsequent performance remains unsuccessful or if the customer cannot be reasonably expected to accept any subsequent performance, the latter shall be entitled to withdraw from the contract in compliance with the provisions of the following sentences. The customer shall only be entitled to withdraw from the contract - where a withdrawal is not excluded by law - upon the unsuccessful expiry of a reasonable period for subsequent performance set by him, unless this period was not required under the statutory provisions (§§ 281 para. 2, 323 para. 2, 440, 441 para. 1 BGB (German Civil Code)).

In case of his withdrawal, the customer shall be liable for any deterioration, destruction or loss of use resulting from any negligence or intent on his part. Any claims for damages or reimbursement of expenses of the customer shall be subject to the provisions set out in article 10.

In the case of any fraudulent concealment of a defect or in the case of any provision of a quality guarantee for the goods sold at the time of the passing of risk within the meaning of § 444 BGB (German Civil Code) (seller's declaration that the object sold has a specific property at the time of the passing of risk and that the seller, regardless of any fault on his part, intends to be answerable for any and all consequences resulting from its absence), the customer's rights shall be exclusively governed by the statutory provisions.

We shall - in addition to the statutory grounds for refusal - also be entitled to refuse subsequent performance if and as long as the customer fails to send us, at our request, the rejected goods or a sample thereof; the customer shall have no right of withdrawal for any such refusal. We may further refuse any subsequent performance if the goods concerned have been altered or modified without our consent unless the customer can prove that the defect was not caused by such alteration or modification.

The limitation period for any claims arising from defects shall be one year; in the case of goods which have been used in accordance with their intended purpose for a building and have caused its defectiveness, the limitation period shall be two years. The provisions of §§ 478, 479 BGB (German Civil Code) on recourse in the chain of suppliers shall not be affected thereby.

10. In the case of a pre-contractual, contractual or non-contractual breach of duty, including unsatisfactory delivery, tortious conduct and producer's liability, we shall only be liable for compensatory damages and reimbursement of expenses - subject to further contractual or statutory liability requirements - in the case of intent, gross negligence or slightly negligent breach of a material contractual duty (contractual duty the infringement of which jeopardises the fulfilment of the object of the contract). However - except in the case of intent - our liability shall be limited to the typical contractual damage that was foreseeable at the time the contract was entered into.

The purchaser shall not be permitted to make a claim for expenses incurred in vain.

Except for any breach of material duties, our liability for slight negligence shall be excluded, but in any case be limited to the amount of the purchase price.

Any claim asserted by the customer or a third party for payment of a contractual penalty shall be excluded.

With regard to damages caused by delay, we shall only be liable for slight negligence up to the amount of 5% of the purchase price agreed with us.

The exclusions and limitations of liability set forth above shall not apply in the event that a guarantee is given with respect to the quality of the object sold within the meaning of § 444 BGB (German Civil Code) if a defect is fraudulently concealed or in the event of injury to life, physical injury or injury to health, or strict liability under the German Product Liability Act.

Any and all claims for damages against us, for any legal reason whatsoever, shall become statute-barred at the latest after one year from delivery of the goods to the customer, in the case of tortious liability from the time of knowledge, or grossly negligent ignorance, of the circumstances giving rise to the claim and the person liable to pay damages. This provision shall not apply in the case of liability for intent and in the event that a guarantee is given for the quality of the object sold, in the case of fraudulent concealment of a defect or in the event of injury to life, physical injury or injury to health, or strict liability under the German Product Liability Act. Any shorter limitation periods shall take precedence.

11. We shall be entitled to process and store any customer data obtained with regard to or in connection with the business relationship in accordance with the German Federal Data Protection Act, irrespective of whether such data is provided by the purchaser himself or by any third parties.

12. Place of performance for delivery and payment is Menden/Sauerland. The court of competent jurisdiction for any and all disputes, including disputes with regard to bills of exchange and cheques, is the Local Court (Amtsgericht) of Menden or, at our option, the District Court (Landgericht) of Arnsberg, irrespective of the value of the object in dispute. We shall, however, also be entitled to take legal proceedings against the customer at the place of his registered office.

German law shall be exclusively applicable. The application of international purchase laws is hereby excluded.

Should, for any reason whatsoever, individual provisions of our terms and conditions of sale and delivery be invalid, the validity and binding nature of the other provisions shall not be affected thereby. The customer agrees, that the invalid provision shall be replaced by a valid provision that comes as close as possible to the economic meaning of the invalid provision.

13. The prices of products made of brass and copper are subject to certain fluctuations that are based on the relevant DEL listings. The prices of our brass articles are based on a DEL listing of € 150 for Ms 58, those of our copper products on a DEL value for electrolyte copper of € 200.

In case of any increase or reduction in these prices by more than € 15, a five per cent surcharge or deduction shall be made for each 15 points. The calculation of any such surcharges or deductions shall be based on the DEL listing of the date of our receipt of the order.

Valid from January 2010

QR-Code
With the QR Code you have direct access to our products on the Internet.

You can find further information on the QR Code at www-obo-bettermann.com.

OBO BETTERMANN GmbH & Co. KG
P.O. Box 1120
58694 Menden, Germany

Customer Service Germany
Tel. +49 (0)2373 891 500
Fax +49 (0)2373 897 777
E-mail: info@obo.de

www.obo-bettermann.com

THINK CONNECTED.

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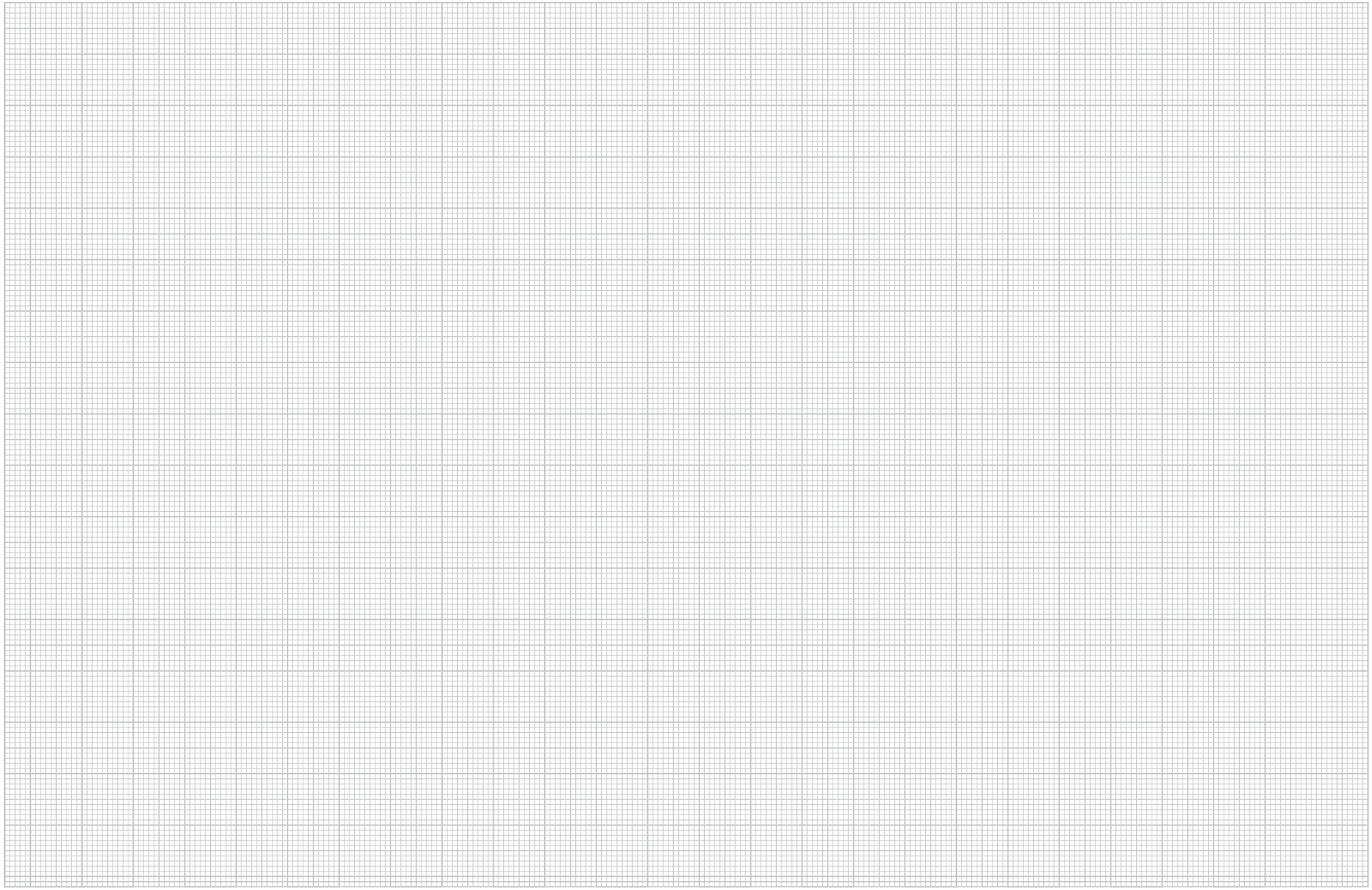

2012/2013 EN

Connection and fastening systems | VBS

OBO BETTERMANN

VBS

01_VBS_Master_Catalogue_Countries_2012

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Bund

Bundle

Stand: 31/5/2012

LLExport_01445

Wenn LAGERLISTE:
Dann in Leaflet die Variabel "Lagerliste_JaNein"
auf Ja
und

Alle Variablen:

5_Lagerliste_JaNein ..... Nein
Belastungsdiagramm_JaNein ..... Nein
Foto_MaxHoehe 0
MassBilder_JaNein ..... Ja
Massbilder_MaxHoehe 35
MasstabelleBestellteil_Ja=0_Nein=100000 100000
Masstabelle_Excel_JaNein ..... Ja
Prodbilder_Strich_Grafik ..... Grafik
Produktbilder_MaxHoehe 40
Rabattgruppen_JaNein ..... Nein
StandardVPE 1
SystemLogo .....
ThinkConnBack_schwarz_weiss ..... schwarz
ThinkConnTitel_schwarz_weiss ..... weiss
ZeileWerkstoffRabattJaNein ..... Ja
ZusAttrib_ProdText_U_Einsatzgeb_L6_Vorbelegung_721 0
ZusText_Grau_L7_ArtNr_Ausnahmeliste_Vorbelg_0 0
ZusText_GrauerHintergrund_ProdBeschrGes_Vorbelg_37 37
ZusText_ProdukZusatzTextHinweis_L6_Vorbelegung_222 66
ZusatzAttribut_L6_Wahlfrei_Vorbelegung_0 17036
ZusatzAttribut_L7_Wahlfrei_Vorbelegung_0 0
ZusatzText_FussNote_L6_Vorbelegung_86 0
_PrüfzeichenJaNein ..... Ja
_QualitätszeichenJaNein ..... Ja
_SchnittmarkenJaNein ..... Ja
_SpezifischeProduktsymboleJaNein ..... Ja

Katalogdatei:
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