

Industrial installations

Connection and
fastening systems

OBO
BETTERMANN



Our products for your project Towards the future with OBO

Reliable, safe and of the highest quality: Product features such as installation speed, load capacity, functionality and availability are at the forefront of each of our innovations. Discover the whole range of OBO products – in a new structure, allowing us to deal in a more targeted manner with the needs of you, our customers.

It is our aim to be the first port of call for the best and most innovative connections for electrical and data technology infrastructure. Thus, when looking towards the future, we have asked ourselves what we can do to be the best possible partner you could ever imagine, also in the long term. Against this backdrop, we have optimised our structure once again, sharpened our profile and defined our services more clearly. The result: Three new areas of application, which replace our previous seven product units, in order to provide you with a contemporary and user-orientated visual identity and structure, for both products and communication. This helps you to find exactly the products you are looking for in an even faster and simpler manner.

In this catalogue, we will present the entire product variety of the industrial installations application area to you. This area gives our cable support systems and the connection and fastening systems a new lease of life and can offer you everything you require to equip industrial systems with an electrical infrastructure. Here, three attributes are of paramount importance to us: efficiency, load capacity and safety.

High demands are placed on products that are used in industrial environments. They must be able to withstand both weathering and environmental conditions, as well as mechanical loads. Our products from the industrial installations area are available in many different versions and allow installation and fastening on the floor, ceiling and wall, both indoors and outdoors. OBO can offer reliable solutions for every installation challenge in the industrial environment, in order to route and fasten cables safely.

OBO – simply better.

OBO Product Worlds



Industrial installations

Cable trays
Mesh cable trays
Cable ladders
Industrial ducts
Support structures
Electrical installation pipes
Wiring ducts
Power supply units
Distributors
Junction boxes
Concealed and cavity wall installations
Terminals
Cable glands
Installation and fastening clips
Anchors and fastening systems

**You can find additional products in our new
Building installations and Safety and protective installations catalogues**



Building installations

Cable routing and underfloor systems for administrative and functional buildings including architectural solutions

Electrical installation ducts and trunking
Device installation ducts and trunking
Skirting trunking
Service poles
Underfloor applications, in screed
Underfloor applications, in concrete
Underfloor applications, on-floor
Service outlets for underfloor applications
Floor sockets and floor boxes
Installation housing and support
Tabletop sockets
Sockets, switches, data and multimedia technology



Safety and protection installations

Lightning, surge and fire protection systems

Surge protection
Explosion protection
Lightning protection
Earthing
Equipotential bonding
Insulation
Cable bandages – prevention of the spread of fire
Escape route installations – false ceiling mounting
Fire protection ducts
Systems for the maintenance of electrical functionality – cable-specific routing variants
Systems for the maintenance of electrical functionality – standard support structures and routing systems
Systems for the maintenance of electrical functionality – FireBox T series junction boxes
Anchorings

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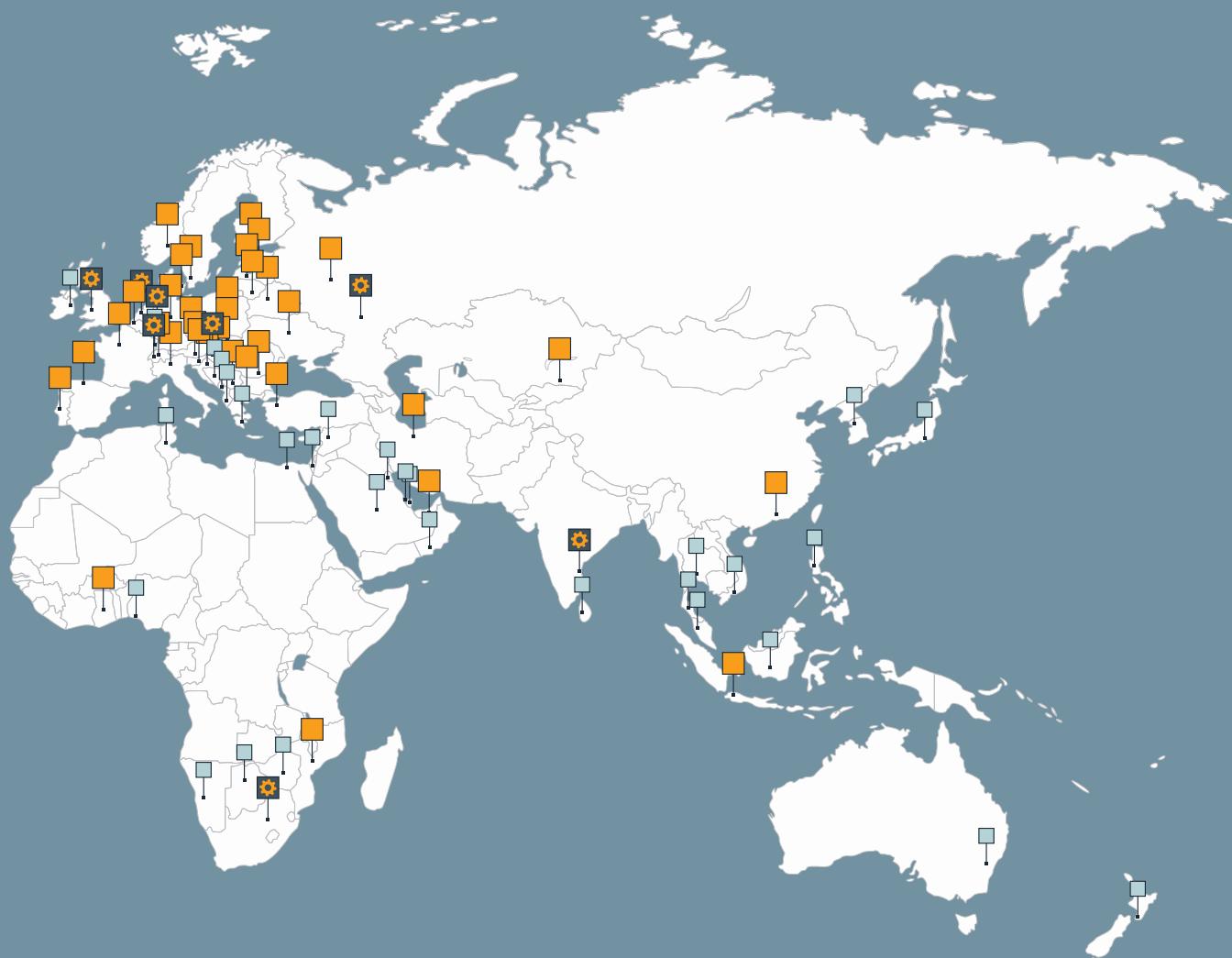


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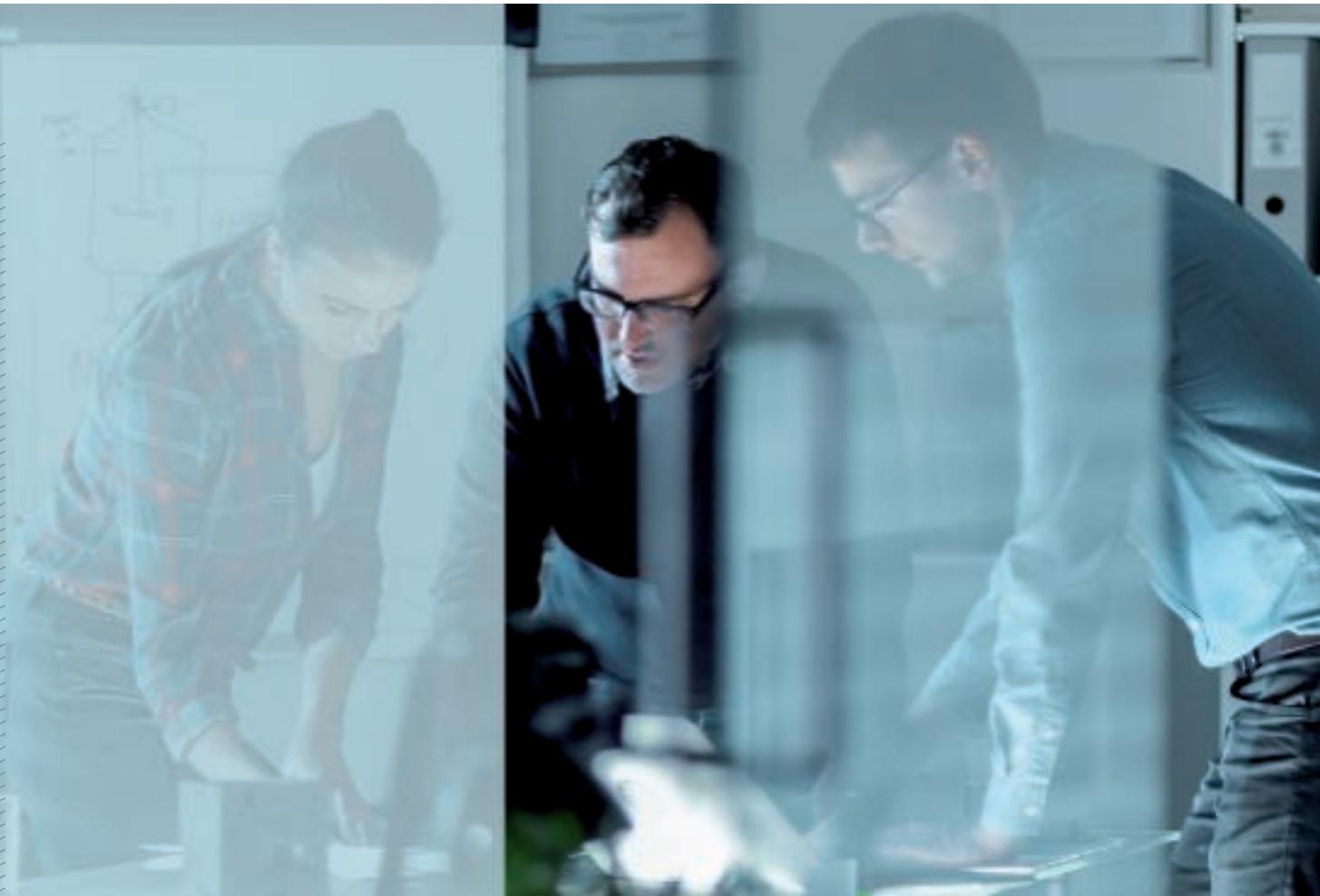
**Welcome world.
Welcome to OBO.**

New solutions to improve functionality and the ease of installation – OBO employees all around the world use their abilities and creativity to make this happen. Because we know that each individual market has its special characteristics and that the requirements for our products change within each market, we have paid particular attention to the compatibility of products in their place of use. We always offer our customers intelligent, well-thought-out solutions. Our brands always keep this promise. The OBO global team wishes to make the work of electrical planners and operatives around the world as easy as possible.



- Production location**
- Subsidiary**
- Representative office**

OBO Support & contact



**You have a
problem?
We have the
solution!**

OBO Bettermann is more than the sum of its products. In any situation, we are the reliable partner right by your side. You have a problem? We have the solution!

It doesn't matter in which area of industry our support is needed – from industrial and plant engineering to private, public and administrative buildings, as well as in the areas of mobility and renewable energies – we have everything that you need.

OBO can not only provide the entire electro-technical infrastructure with the best possible products. We can also support you with sound expert knowledge and more than 100 years of experience, right from the planning phase through to the realisation of your projects. OBO – solutions you can rely on.

What is OBO Support?

Every OBO product carries a plus inside it, which only a branded product can offer. It is developed, manufactured and tested with a high level of competence, from the idea right through to the final check. In addition, our specialists are available for consultation and can offer you assistance and training courses for products at any time.

Together with you, we plan your project and help you choose the right products, and are also available to you at any time should you need us. From flawless logistics through to practical information – we can provide support at every level. We can also offer security through certificates on the conformity of our products with the most important standards and directives.

We are as flexible as you are – because we know how practical people work and what is important to them. Each step is a plus – that is the OBO Support concept.

You can contact our Customer Service department on:

Monday to Friday
08:00 a.m. to 5:00
p.m.

Estonia: +372 6519870
Latvia: +371 67802050
Lithuania: +370 52375911

Estonia: obo@obo.ee
Latvia: obo@obo.lv
Lithuania: obo@obo.lt



Service – OBO can help

Everywhere and in every project phase:

- Highly competent hotline
- Product and system information, digitally or printed
- Selection and planning aids on the web, as an app, as a CAD application or in printed form
- 2D and 3D product data for planning
- Field service, branch offices and subsidiaries in 60 countries
- Engineering services for major projects

Training courses from OBO

- Seminars and workshops
- Local consultation and training courses
- Planner days

Handling – OBO delivers reliably

With optimised delivery processes:

- Reliable logistics
- Practical transport systems and packaging
- Loading gear handling and disposal concepts

Certification and guarantee

OBO offers safety. Our products fulfil the most important country-specific regulations:

- Conformity (e.g. IEC, VDE, CE, KEMA, KEUR, UL)
- Certification (e.g. DIN EN, DGNB)
- 5-year guarantee for surge protection products
- Guarantee management

Conduits



Conduits

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Metal pipe systems

Protection against mechanical loads

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

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



Maintenance of electrical function to E30/E90

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

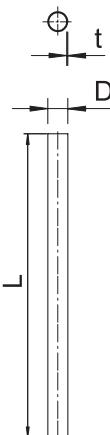


Steel pipe, electrogalvanised

St G
E30 E90 D'E

Armoured steel pipe without thread, electrogalvanised

Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W G	16	3000	1	30	37.000	2046840
S20W G	20	3000	1	30	44.700	2046841
S25W G	25	3000	1.2	30	70.400	2046842
S32W G	32	3000	1.2	21	91.200	2046843
S40W G	40	3000	1.2	15	139.700	2046844
S50W G	50	3000	1.2	15	176.000	2046845
S63W G	63	3000	1.2	9	223.000	2046846



4 | 4 | 5 | 7 | 1

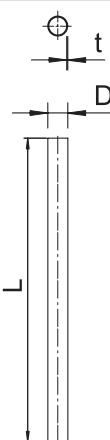
Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

Steel pipe, powder-coated

St
E30 E90 D'E

Armoured steel pipe without thread, black

Type	Dim. D mm	Dim. L mm	Dim. t mm	Colour	Pack m	Weight kg/100 m	Item no.
S16W SW	16	3000	1	Jet black	30	37.000	2046565
S20W SW	20	3000	1	Jet black	30	44.700	2046566
S25W SW	25	3000	1.2	Jet black	30	70.400	2046567
S32W SW	32	3000	1.2	Jet black	21	91.200	2046568
S40W SW	40	3000	1.2	Jet black	15	139.700	2046569
S50W SW	50	3000	1.2	Jet black	15	176.000	2046570
S63W SW	63	3000	1.2	Jet black	9	223.000	2046571



4 | 4 | 5 | 6 | 1

Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

Steel pipe, hot-dip galvanised

Hot-dip galvanised steel pipe, without thread

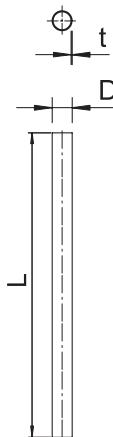
St **FT**
E30 **E90** 



4 | 4 | 5 | 7 | 1

Electrical installation pipe without threaded ends according to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).

Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W FT	16	3000	1	30	37.000	2046593
S20W FT	20	3000	1	30	44.700	2046594
S25W FT	25	3000	1.2	30	70.400	2046595
S32W FT	32	3000	1.2	21	91.200	2046596
S40W FT	40	3000	1.2	15	139.700	2046597
S50W FT	50	3000	1.2	15	176.000	2046598
S63W FT	63	3000	1.2	9	223.000	2046599



Stainless steel pipe

Stainless steel pipe, V2A

VA **2B**
E30 **E90**

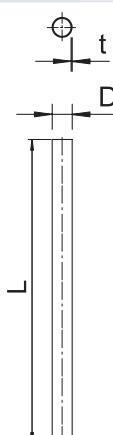


5 | 5 | 5 | 7 | 1

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall. Corrosion protection class 4 (high).

Classification according to DIN EN 61386-1:
555711404010

Type	Dim. D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W A2	16	3000	1	30	37.000	2046720
S20W A2	20	3000	1	30	46.900	2046721
S25W A2	25	3000	1	30	59.200	2046722
S32W A2	32	3000	1.2	21	91.200	2046723
S40W A2	40	3000	1.2	15	114.800	2046724
S50W A2	50	3000	1.5	15	179.400	2046725
S63W A2	63	3000	1.5	9	227.500	2046726





Aluminium pipes

Small weight – high protection.

Simple installation in any environment, both inside and outdoors.

- Less weight
- High resistance against compression and impact
- Corrosion resistant
- M16–M63
- Accessories: Bends and couplings
- Plug-in or threaded system

Aluminium pipe

Aluminium pipe, without thread

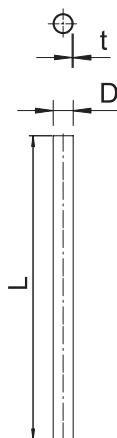
Alu



4 | 4 | 5 | 6 | 1

Electrical installation pipe without threaded ends to EN 61386-1 for mechanical protection of cables. With burr-free inner wall.

Type	D mm	Dim. L mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
S16W ALU	16	3000	1.2	30	15.065	2046002
S20W ALU	20	3000	1.2	30	19.134	2046003
S25W ALU	25	3000	1.3	30	26.134	2046004
S32W ALU	32	3000	1.3	30	33.853	2046005
S40W ALU	40	3000	1.4	15	45.839	2046006
S50W ALU	50	3000	1.4	15	57.714	2046007
S63W ALU	63	3000	1.7	15	88.394	2046008





Quick pipe

The Quick pipe system combines the benefits of cable ducts and conventional electrical installation pipes to produce a single, intelligent system for surface-mounted installations.



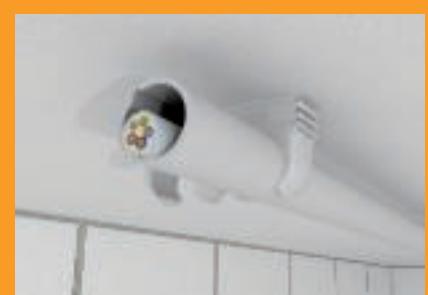
- 4 sizes – M16-M32
- Two colours: White and grey
- Simple installation
- Retroinstallation possible
- VDE-approved



Cables are inserted in the open Quick pipe electrical installation pipes in the same way as with open cable ducting.



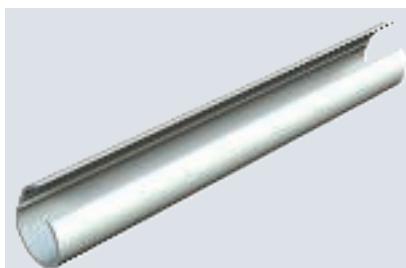
After the cable has been laid the Quick pipe is turned in the Quick clip, and thereby closed tightly.



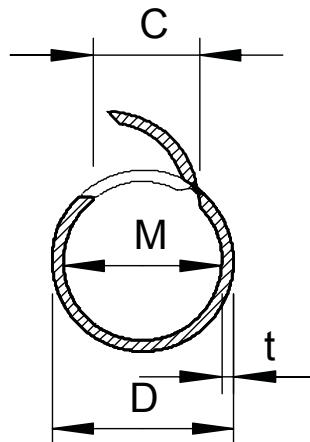
Retro-fittings are also possible because the Quick pipe can be opened easily by turning it.

Quick Pipe system

Quick pipe

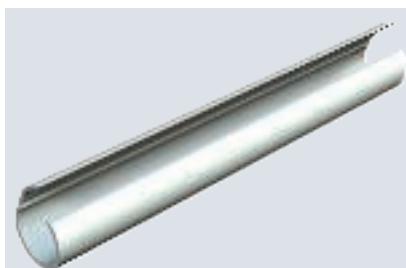


Type	Size	Colour	Length mm	t mm	C mm	D mm	Dimen-sion M	Pack m	Weight kg/100 m	Item no.
2953 M16 LGR	M16	Light grey	2000	1.2	8.2	15.6	13,2	50	7.000	2153904
2953 M20 LGR	M20	Light grey	2000	1.5	10	20	17	40	11.500	2153912
2953 M25 LGR	M25	Light grey	2000	1.6	13.6	25	21,8	30	16.000	2153920
2953 M32 LGR	M32	Light grey	2000	1.7	17	32	28,6	20	21.500	2153939

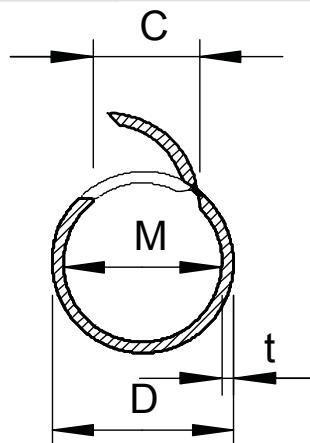


Open plastic Quick pipe pipe for surface-mounted routing of cables in interiors and protected outdoor areas. Mounting on wall and ceiling with Quick clip, starQuick clip and Multi-Quick clip. Toolless closing and opening through turning in the clip. Can be used in a temperature range of -25 to +60 °C.

Quick pipe



Type	Size	Colour	Length mm	t mm	C mm	D mm	Dimen-sion M	Pack m	Weight kg/100 m	Item no.
2953 M16 RW	M16	Pure white	2000	1.2	8.2	15.6	13,2	50	7.700	2153960
2953 M20 RW	M20	Pure white	2000	1.5	10	20	17	40	11.500	2153963
2953 M25 RW	M25	Pure white	2000	1.6	13.6	25	21,8	30	16.000	2153966
2953 M32 RW	M32	Pure white	2000	1.7	17	32	28,6	20	21.500	2153969



Open plastic Quick pipe pipe for surface-mounted routing of cables in interiors and protected outdoor areas. Mounting on wall and ceiling with Quick clip, starQuick clip and Multi-Quick clip. Toolless closing and opening through turning in the clip. Can be used in a temperature range of -25 to +60 °C.



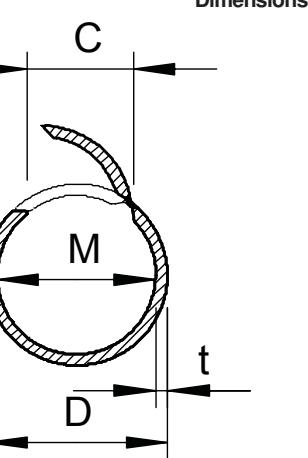
Set of Quick clips and Quick pipe pipes

Type	Size	Colour	Set consisting of	Pack Piece	Weight kg/100 pc.	Item no.
2954 M16 LGR	M16	Light grey	50 m Quick pipe and 156x OBO Quick clip	1	444.000	2154501
2954 M20 LGR	M20	Light grey	40 m Quick pipe and 120x OBO Quick clip	1	508.000	2154528
2954 M25 LGR	M25	Light grey	30 m Quick pipe and 96x OBO Quick clip	1	517.000	2154536
2954 M32 LGR	M32	Light grey	20 m Quick pipe and 60x OBO Quick clip	1	479.000	2154544



Set consisting of Quick pipe electrical installation pipes and Quick clip surface-mounted clips. For surface-mounted routing of cables in interiors and protected outdoor areas. Universal fastening on wall and ceiling. Comprises 50 m of pipe each of 2 metres in length and 156 Quick clips. Can be used in a temperature range of -25 to +60 °C.

Type	Dim. Dimension M	Dim. C mm	Dim. D mm	Dim. t mm
2954 M16 LGR	13,2	1,2	8,2	15,6
2954 M20 LGR	17	1,5	10	20
2954 M25 LGR	21,8	1,6	13,6	25
2954 M32 LGR	28,6	1,7	17	32





Metal pipe systems

Protection against mechanical loads

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

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



Maintenance of electrical function to E30/E90

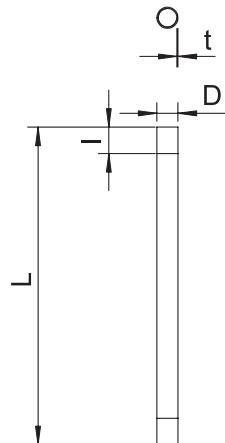
Our steel pipes guarantee the maintenance of electrical function to E30/E90. They are thus ideal for the connection of safety-relevant equipment, such as smoke extraction systems.



Steel pipe, electrogalvanised

St G
M E30 E90 D'E

Type	Thread	D mm	Dim. L mm	Dim. I mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
SM16W G	M16x1.5	16	3000	13	1.3	30	50.390	2046861
SM20W G	M20x1.5	20	3000	13	1.5	30	66.667	2046862
SM25W G	M25x1.5	25	3000	18	1.5	30	92.290	2046863
SM32W G	M32x1.5	32	3000	18	1.5	21	120.000	2046864
SM40W G	M40x1.5	40	3000	20.5	1.5	15	151.450	2046865
SM50W G	M50x1.5	50	3000	25	1.5	15	190.000	2046866
SM63W G	M63x1.5	63	3000	25	1.7	9	287.700	2046867



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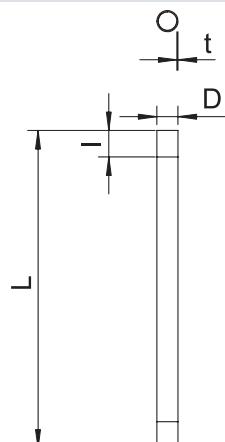
Electrical installation pipe according to EN 61386-1 with threaded ends to EN 60423 for mechanical protection of cables.
With burr-free inner wall. One coupling is already screwed onto each pipe.

Steel pipe, powder-coated

St
M E30 E90 D'E

Armoured steel pipe with thread, black

Type	Thread	D mm	Dim. L mm	Dim. I mm	Dim. t mm	Colour	Pack m	Weight kg/100 m	Item no.
SM16W SW	M16x1.5	16	3000	13	1.3	Jet black	30	50.000	2046500
SM20W SW	M20x1.5	20	3000	13	1.5	Jet black	30	73.000	2046501
SM25W SW	M25x1.5	25	3000	18	1.5	Jet black	30	92.000	2046502
SM32W SW	M32x1.5	32	3000	18	1.5	Jet black	21	120.000	2046503
SM40W SW	M40x1.5	40	3000	20.5	1.5	Jet black	15	152.000	2046505
SM50W SW	M50x1.5	50	3000	25	1.5	Jet black	15	190.700	2046506
SM63W SW	M63x1.5	63	3000	25	1.7	Jet black	9	287.700	2046507



5 | 5 | 5 | 6 | 1

Electrical installation pipe according to EN 61386-1 with threaded ends to EN 60423 for mechanical protection of cables.
With burr-free inner wall. One coupling is already screwed onto each pipe.

Steel pipe, hot-dip galvanised

Hot-dip galvanised steel pipe, with thread

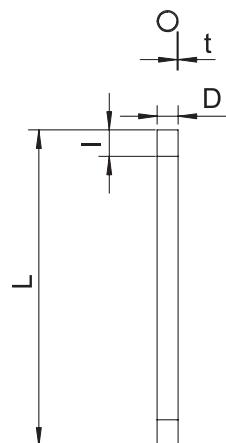


5 | 5 | 5 | 7 | 1

Electrical installation pipe according to EN 61386-1 with threaded ends to EN 60423 for mechanical protection of cables.

With burr-free inner wall. Corrosion protection class 4 (high). One coupling is already screwed onto each pipe.

Type	Thread	Dim. D mm	Dim. L mm	Dim. I mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
SM16W FT	M16x1,5	16	3000	13	1.3	30	54.000	2046533
SM20W FT	M20x1,5	20	3000	13	1.5	30	79.000	2046534
SM25W FT	M25x1,5	25	3000	18	1.5	30	99.000	2046535
SM32W FT	M32x1,5	32	3000	18	1.5	21	130.000	2046536
SM40W FT	M40x1,5	40	3000	20.5	1.5	15	164.000	2046537
SM50W FT	M50x1,5	50	3000	25	1.5	15	206.000	2046538
SM63W FT	M63x1,5	63	3000	26	1.8	9	324.700	2046540





Aluminium pipes

Small weight – high protection.

Simple installation in any environment, both inside and outdoors.

- Less weight
- High resistance against compression and impact
- Corrosion resistant
- M16–M63
- Accessories: Bends and couplings
- Plug-in or threaded system

Aluminium pipe

Aluminium pipe, with thread

Alu

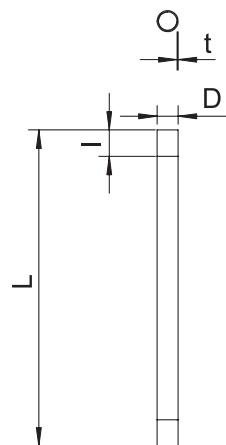
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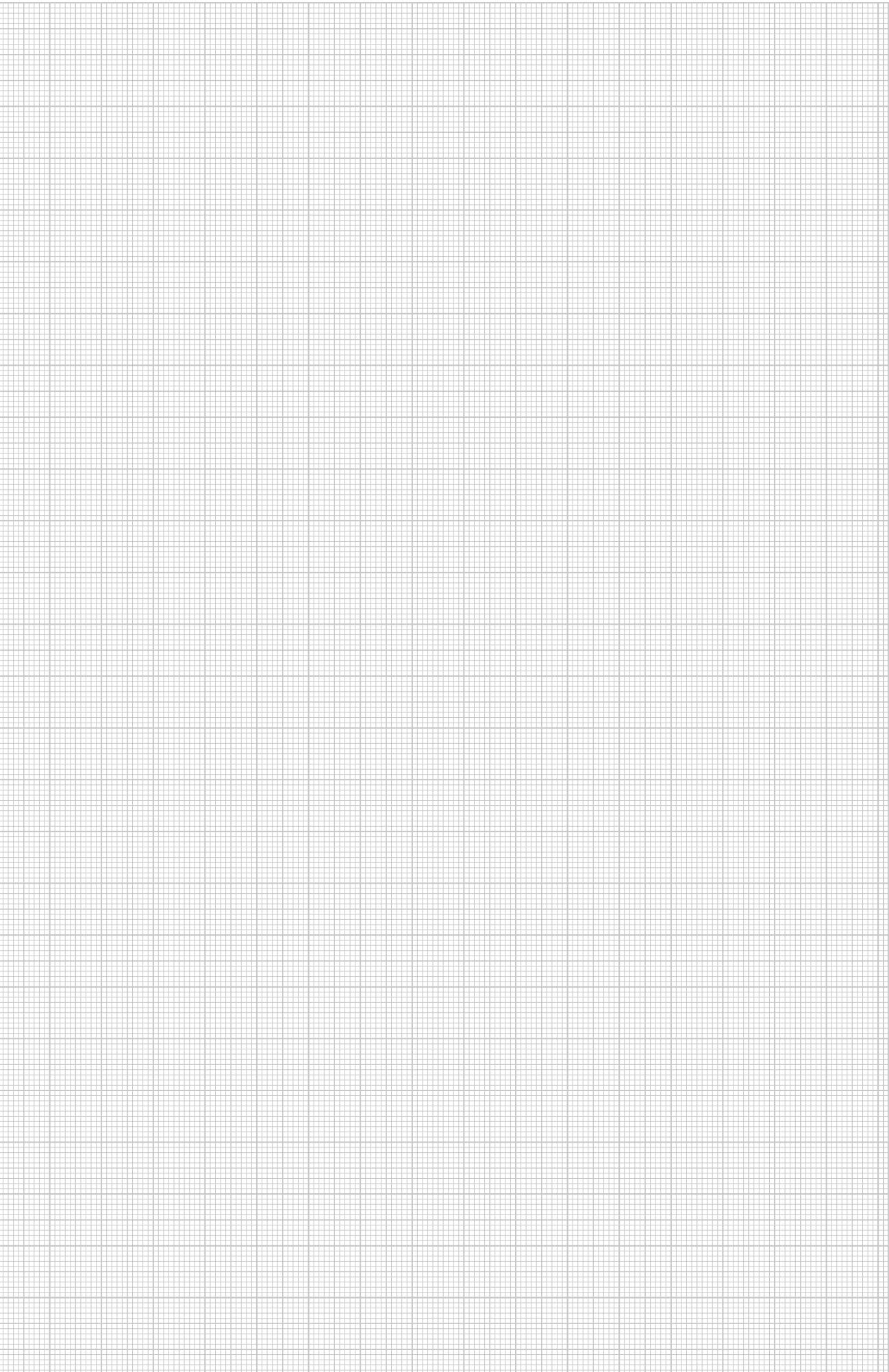


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Electrical installation pipe to EN 61386-1 with threaded ends to DIN EN 60423 for mechanical protection of cables.
With burr-free inner wall. One connection sleeve is already screwed onto each pipe.

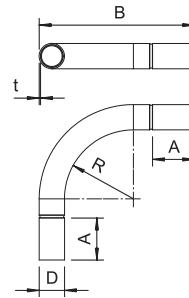
Type	Thread	D mm	Dim. L mm	Dim. I mm	Dim. t mm	Pack m	Weight kg/100 m	Item no.
SM16W ALU	M16x1,5	16	3000	15	1.6	30	19.543	2046032
SM20W ALU	M20x1,5	20	3000	15	1.9	30	29.170	2046033
SM25W ALU	M25x1,5	25	3000	20	1.9	30	37.230	2046034
SM32W ALU	M32x1,5	32	3000	20	1.9	30	48.510	2046035
SM40W ALU	M40x1,5	40	3000	20	1.9	15	61.403	2046036
SM50W ALU	M50x1,5	50	3000	25	2.1	15	85.323	2046037
SM63W ALU	M63x1,5	63	3000	25	2.1	15	108.480	2046038





Steel pipe bends, electrogalvanised

Electrogalvanised steel bend, without thread



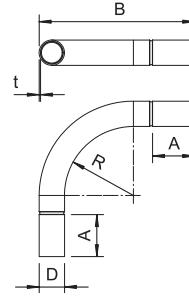
Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBN16 G	43.7	103	18.6	50	1	15	7.200	2046808
SBN20 G	53.7	155	22.6	90	1	25	13.300	2046809
SBN25 G	66.5	190	28	110	1.2	25	24.400	2046810
SBN32 G	86.5	254	35.1	150	1.2	20	41.000	2046811
SBN40 G	87.2	279	43.7	170	1.5	15	70.200	2046812
SBN50 G	131	358	54	200	1.5	5	111.800	2046813
SBN63 G	163	446	67	250	1.5	3	174.200	2046814

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1.
With burr-free inner wall.



Steel pipe bends, powder-coated

Black powder-coated steel bend, without thread



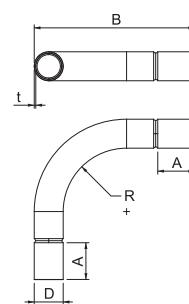
Type	Dim. A Colour	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBN16 SW	Jet black	43.7	103	16.6	50	1	15	7.200
SBN20 SW	Jet black	53.7	155	20.6	90	1	25	13.300
SBN25 SW	Jet black	66.5	190	25.6	110	1.2	25	24.400
SBN32 SW	Jet black	86.5	254	32.7	150	1.2	20	41.000
SBN40 SW	Jet black	87.2	279	40.7	170	1.5	15	68.900
SBN50 SW	Jet black	131	358	51	200	1.5	5	111.800
SBN63 SW	Jet black	163	446	64	250	1.5	3	174.200

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1.
With burr-free inner wall.



Steel pipe bends, hot-dip galvanised

Hot-dip galvanised steel bend, without thread



Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBN16 FT	43.7	103	16.6	50	1	15	7.200	2046816
SBN20 FT	53.7	155	20.6	90	1	25	13.300	2046817
SBN25 FT	66.5	190	25.6	110	1.2	25	24.400	2046818
SBN32 FT	86.5	254	32.7	150	1.2	20	41.000	2046819
SBN40 FT	87.2	279	40.7	170	1.5	15	68.900	2046820
SBN50 FT	131	358	51	200	1.5	5	111.800	2046821
SBN63 FT	163	446	64	250	1.5	3	174.200	2046822

90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1.
With burr-free inner wall.

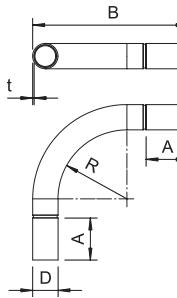


Stainless steel pipe bends

VA 2B
E30 E90

Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SB16W A4	54	104	18.2	50	1	5	7.200	2046760
SB20W A4	66	156	22.2	90	1	10	13.300	2046761
SB25W A4	81.5	194	27.2	112.5	1	10	20.400	2046762
SB32W A4	104	250	34.7	146	1.25	10	42.000	2046763
SB40W A4	129	294	42.7	165	1.25	5	61.200	2046764
SB50W A4	158	408	52.7	250	1.25	5	79.500	2046765
SB63W A4	198	448	65.7	250	1.25	3	144.600	2046766

Stainless steel pipe bend, V4A

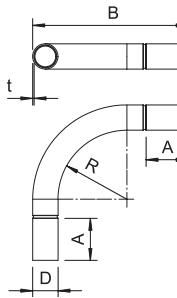


90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1.
With burr-free inner wall.

Alu

Aluminium pipe bends

Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SB16W ALU	78	151	16	64	1.2	15	2.350	2046012
SB20W ALU	80	171	20	80	1.2	25	5.500	2046013
SB25W ALU	93	209	25	102.5	1.3	25	9.000	2046014
SB32W ALU	105	253	32	131	1.3	20	14.100	2046015
SB40W ALU	115	302	40	165	1.4	15	22.400	2046016
SB50W ALU	128	360	50	205	1.4	5	35.400	2046017
SB63W ALU	135	425	63	256.5	1.7	3	59.500	2046018

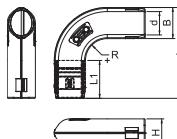


90° bend with moulded sleeves, for electrical installation pipes according to EN 61386-1.
With burr-free inner wall.

PP

IP 44 M D'E

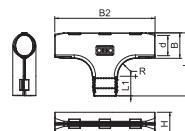
Type	Size	Colour	Dim. B mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 BMS M16 LGR	M16	Light grey	21.4	69	10	0.592	2154052
3000 BMS M20 LGR	M20	Light grey	26.3	83.2	5	1.103	2154054
3000 BMS M25 LGR	M25	Light grey	31.2	91	5	1.514	2154056
3000 BMS M32 LGR	M32	Light grey	38.8	103	5	2.035	2154058
3000 BMS M16 RW	M16	Pure white	21.4	69	10	0.592	2154062
3000 BMS M20 RW	M20	Pure white	26.3	83.2	5	1.103	2154064
3000 BMS M25 RW	M25	Pure white	31.2	91	5	1.514	2154066
3000 BMS M32 RW	M32	Pure white	38.8	103	5	2.035	2154068



Fitting for plastic electrical installation pipes to create 90° bends. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of -25 to +60 °C.

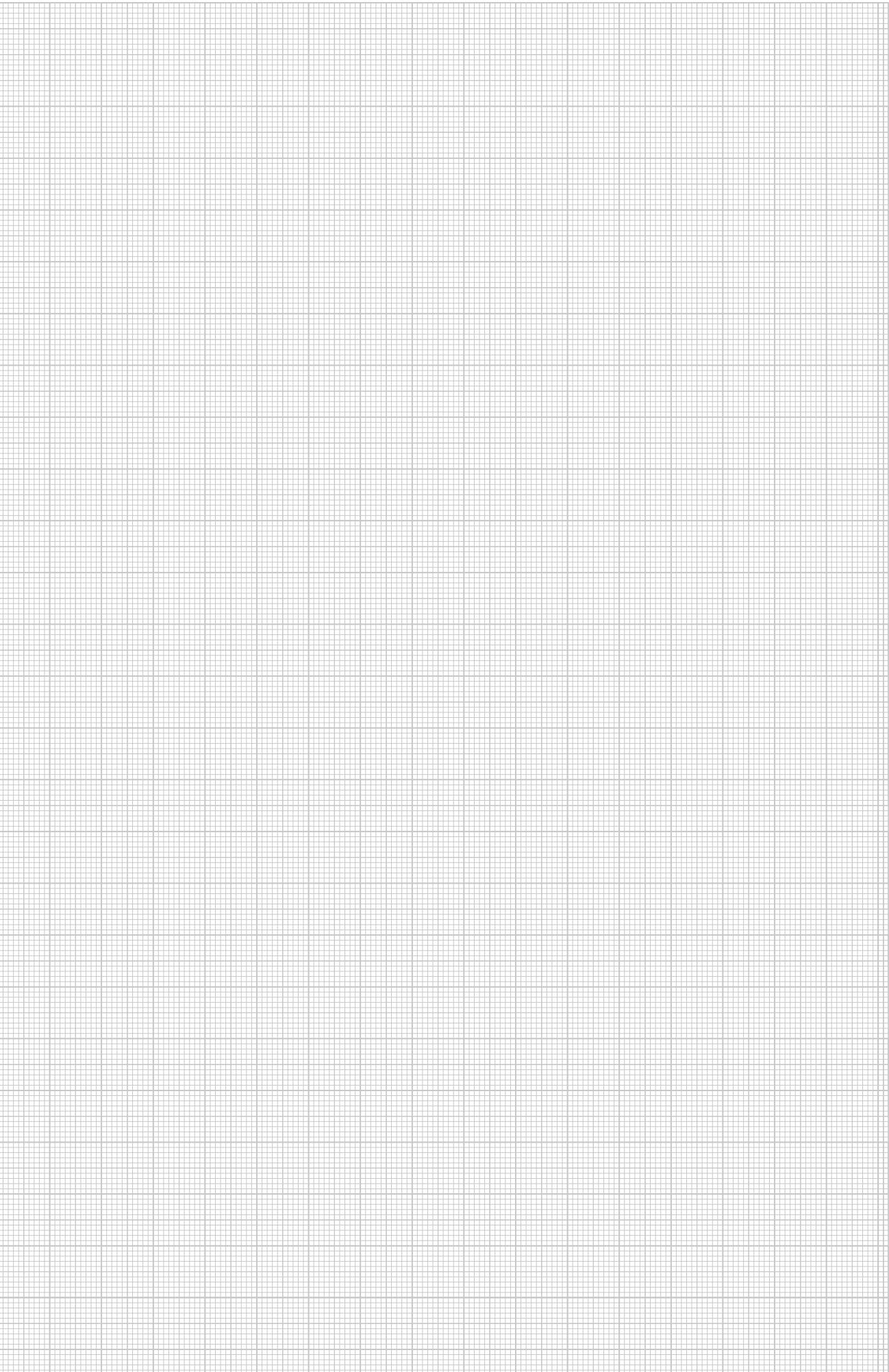
Quick Pipe T pieces

Quick pipe T piece



Type	Size	Colour	Dim.	Dim.	Dim.	Pack Piece	Weight kg/100 pc.	Item no.
			L mm	B mm	B2 mm			
3000 TMS M16 LGR	M16	Light grey	58	21	94	10	0.798	2153839
3000 TMS M20 LGR	M20	Light grey	69	26	110	5	1.401	2153841
3000 TMS M25 LGR	M25	Light grey	77	31	123	5	1.977	2153843
3000 TMS M32 LGR	M32	Light grey	87	39	135	5	2.511	2153845
3000 TMS M16 RW	M16	Pure white	58	21	94	10	0.798	2153951
3000 TMS M20 RW	M20	Pure white	69	26	110	5	1.401	2153953
3000 TMS M25 RW	M25	Pure white	77	31	123	5	1.978	2153955
3000 TMS M32 RW	M32	Pure white	87	39	135	5	2.511	2153957

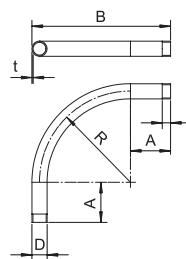
Fitting for plastic electrical installation pipes to create T branches. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of -25 to +60 °C.



Steel pipe bends, electrogalvanised

Electrogalvanised steel bend, with thread

St G
M E30 E90 VDE



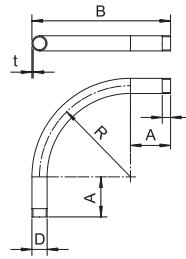
Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. I mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBNM16 G	M16x1,5	45	103	16	13	50	1.4	15	10.400	2046778
SBNM20 G	M20x1,5	55	155	20	13	90	1.6	25	21.000	2046779
SBNM25 G	M25x1,5	68	190	25	18	110	1.6	25	33.000	2046780
SBNM32 G	M32x1,5	88	254	32	18	150	1.6	20	56.600	2046781
SBNM40 G	M40x1,5	89	279	40	20.5	170	1.6	15	77.600	2046782
SBNM50 G	M50x1,5	133	358	50	25	200	1.6	5	125.800	2046783
SBNM63 G	M63x1,5	165	446	63	25	250	1.8	3	227.000	2046784

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.

Steel pipe bends, powder-coated

Black powder-coated steel bend, with thread

St
M E30 E90 VDE



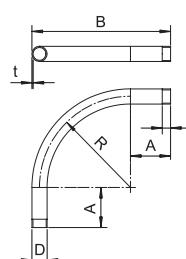
Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. I mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBNM16 SW	M16x1,5	45	103	16	13	50	1.4	15	10.400	2046793
SBNM20 SW	M20x1,5	55	155	20	13	90	1.6	25	21.000	2046794
SBNM25 SW	M25x1,5	68	190	25	18	110	1.6	25	33.000	2046795
SBNM32 SW	M32x1,5	88	254	32	18	150	1.6	20	56.600	2046796
SBNM40 SW	M40x1,5	89	279	40	20.5	170	1.6	15	77.600	2046797
SBNM50 SW	M50x1,5	133	358	50	25	200	1.6	5	125.800	2046798
SBNM63 SW	M63x1,5	165	446	63	25	250	1.8	3	227.000	2046799

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.

Steel pipe bends, hot-dip galvanised

Hot-dip galvanised steel bend, with thread

St FT
M E30 E90 VDE



Type	Thread	Dim. A mm	Dim. B mm	Dim. D mm	Dim. I mm	Dim. R mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SBNM16 FT	M16x1,5	45	103	16	13	50	1.4	15	10.400	2046786
SBNM20 FT	M20x1,5	55	155	20	13	90	1.6	25	21.000	2046787
SBNM25 FT	M25x1,5	68	190	25	18	110	1.6	25	33.000	2046788
SBNM32 FT	M32x1,5	88	254	32	18	150	1.6	20	56.600	2046789
SBNM40 FT	M40x1,5	89	279	40	20.5	170	1.6	15	77.600	2046790
SBNM50 FT	M50x1,5	133	358	50	25	200	1.6	5	125.800	2046791
SBNM63 FT	M63x1,5	165	446	63	25	250	1.8	3	227.000	2046792

90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.
One connection sleeve is already screwed onto each pipe bend.

Alu

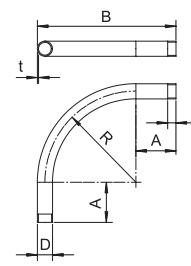
M

Aluminium pipe bend, with thread

Type	Thread	Dim. A	Dim. B	Dim. D	Dim. I	Dim. R	Dim. t	Pack Piece	Weight kg/100 pc.	Item no.
SBM16W ALU	M16x1,5	78	150	16	15	64	1.6	15	3.300	2046042
SBM20W ALU	M20x1,5	80	170	20	15	80	1.9	25	7.300	2046043
SBM25W ALU	M25x1,5	93	208	25	20	102.5	1.9	25	11.500	2046044
SBM32W ALU	M32x1,5	105	252	32	20	131	1.9	20	20.000	2046045
SBM40W ALU	M40x1,5	115	300	40	20	165	1.9	15	27.300	2046046
SBM50W ALU	M50x1,5	128	358	50	25	205	2.1	5	49.500	2046047
SBM63W ALU	M63x1,5	135	423	63	25	256.5	2.1	3	78.400	2046048

90° bend for electrical installation pipes according to EN 61386-1 with threaded ends to DIN EN 60423. With burr-free inner wall.

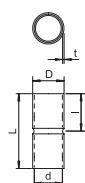
One connection sleeve is already screwed onto each pipe bend.



Connector, steel pipe, electrogalvanised

Armoured steel pipe connection sleeve without thread, electrogalvanised

St G
E30 E90 

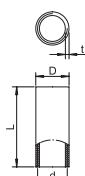


Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. I mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SV16W G	18.6	16.6	50	25	1	25	2.100	2046854
SV20W G	23.1	20.7	60	30	1.2	50	2.800	2046855
SV25W G	28.1	25.7	60	30	1.2	50	4.800	2046856
SV32W G	35.2	32.8	70	35	1.2	50	7.200	2046857
SV40W G	43.8	43.8	80	40	1.5	25	13.200	2046858
SV50W G	54	51	100	50	1.5	10	20.000	2046859
SV63W G	67	64	100	50	1.5	5	28.000	2046860

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

Electrogalvanised steel sleeve, with thread

St G
M E30 E90 



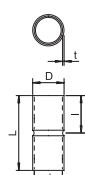
Type	Dim. Thread	Dim. D mm	Dim. d mm	Dim. L mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
SVM16W G	M16x1,5	18.5	16	26	2	25	2.110	2046875
SVM20W G	M20x1,5	22.5	20	30	2	50	3.000	2046876
SVM25W G	M25x1,5	27.5	25	40	2	50	5.030	2046877
SVM32W G	M32x1,5	35.5	32	40	2.5	50	8.800	2046878
SVM40W G	M40x1,5	43.5	40	45	2.5	25	11.370	2046879
SVM50W G	M50x1,5	53.5	50	54	2.5	10	16.970	2046880
SVM63W G	M63x1,5	68	63	60	3.2	5	30.670	2046881

Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

Connector, steel pipe, powder-coated

Armoured steel pipe connection sleeve without thread, black

St
E30 E90 

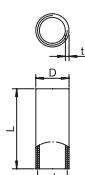


Type	Dim. D mm	Dim. d mm	Dim. L mm	Dim. I mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.	
	Colour								
SV16W SW	18.6	16.6	50	25	1	Jet black	25	2.400	2046582
SV20W SW	23.1	20.7	60	30	1.2	Jet black	50	3.200	2046583
SV25W SW	28.1	25.7	60	30	1.2	Jet black	50	5.500	2046584
SV32W SW	35.2	32.8	70	35	1.2	Jet black	50	7.900	2046585
SV40W SW	43.8	40.8	80	40	1.5	Jet black	25	13.200	2046586
SV50W SW	54	51	100	50	1.5	Jet black	10	20.000	2046587
SV63W SW	67	64	100	50	1.5	Jet black	5	28.000	2046588

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

Black powder-coated steel sleeve, with thread

St
M E30 E90 



Type	Dim. Thread	Dim. D mm	Dim. d mm	Dim. L mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.	
	Colour								
SVM16W SW	M16x1,5	18.5	16	26	2	Jet black	25	2.100	2046522
SVM20W SW	M20x1,5	22.5	20	30	2	Jet black	50	3.400	2046523
SVM25W SW	M25x1,5	27.5	25	40	2	Jet black	50	5.000	2046524
SVM32W SW	M32x1,5	35.5	32	40	2.5	Jet black	50	8.800	2046525
SVM40W SW	M40x1,5	43.5	40	45	2.5	Jet black	25	11.400	2046526
SVM50W SW	M50x1,5	53.5	50	54	2.5	Jet black	10	17.000	2046527
SVM63W SW	M63x1,5	68	63	60	3.2	Jet black	5	30.700	2046528

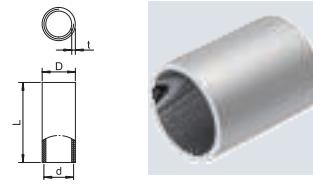
Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

Connector, steel pipe, hot-dip galvanised

St
M E30 E90 D^E

Zinc-nickel coated steel sleeve, with thread

Type	Thread	Dim. mm	Dim. mm	Dim. mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
SVM16W DN	M16x1,5	18.5	16	26	2	25	2.100	2046553
SVM20W DN	M20x1,5	22.5	20	30	2	50	3.000	2046554
SVM25W DN	M25x1,5	27.5	25	40	2	50	3.986	2046556
SVM32W DN	M32x1,5	35.5	32	40	2.5	50	8.800	2046557
SVM40W DN	M40x1,5	43.5	40	45	2.5	25	11.400	2046558
SVM50W DN	M50x1,5	53.5	50	54	2.5	10	17.000	2046559
SVM63W DN	M63x1,5	68	63	60	3.2	5	30.700	2046560

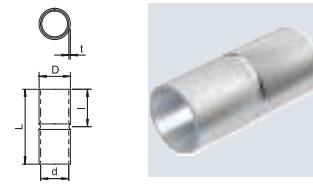


Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

St **FT**
E30 **E90** D^E

Hot-dip galvanised steel sleeve, without thread

Type	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.				
SV16W FT	18.6	16.6	50	25	1	25	2.200	2046620
SV20W FT	23.1	20.7	60	30	1.2	50	3.200	2046621
SV25W FT	28.1	25.7	60	30	1.2	50	5.100	2046622
SV32W FT	35.2	32.8	70	35	1.2	50	7.500	2046623
SV40W FT	43.8	40.8	80	40	1.5	25	14.400	2046624
SV50W FT	54	51	100	50	1.5	10	22.000	2046625
SV63W FT	67	63	100	50	1.5	5	22.000	2046626



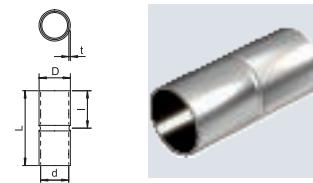
Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

Connector, stainless steel pipe

VA **2B**
E30 **E90**

Stainless steel sleeve V4A

Type	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.				
SV16W A4	18.2	16.2	50	25	1	10	2.100	2046770
SV20W A4	22.2	20.2	60	30	1	15	3.200	2046771
SV25W A4	27.2	25.2	60	30	1	15	3.900	2046772
SV32W A4	34.7	32.2	70	35	1.25	15	7.300	2046773
SV40W A4	42.7	40.2	80	40	1.25	10	10.300	2046774
SV50W A4	52.8	50.2	100	50	1.3	5	16.700	2046775
SV63W A4	65.8	63.2	100	50	1.3	3	20.900	2046776



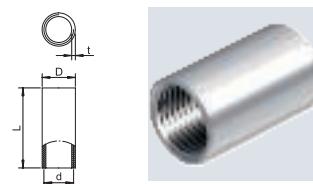
Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

Connector, aluminium pipe

Alu
M

Aluminium sleeve, with thread

Type	Dim. mm	Dim. mm	Dim. mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.	
SVM16W ALU	M16x1,5	18.5	16	35	2.25	50	1.080	2046052
SVM20W ALU	M20x1,5	22.5	20	35	2.25	50	1.100	2046053
SVM25W ALU	M25x1,5	28	25	45	2.5	50	2.430	2046054
SVM32W ALU	M32x1,5	35	32	45	2.5	50	3.100	2046055
SVM40W ALU	M40x1,5	43.5	40	45	2.75	20	4.270	2046056
SVM50W ALU	M50x1,5	53.5	50	55	2.75	20	6.510	2046057
SVM63W ALU	M63x1,5	66.5	63	55	2.8	20	8.320	2046058

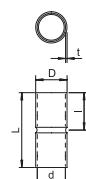


Accessory part: coupling with thread according to EN 60423 to connect electrical installation pipes and 90° bends.

Connector, aluminium pipe

Aluminium sleeve, without thread

Alu



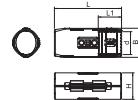
Type	D mm	Dim. d mm	Dim. L mm	Dim. I mm	Dim. t mm	Dimen-sion M	Pack Piece	Weight kg/100 pc.	Item no.
SV16W ALU	18.6	16.2	40	20	1.2	16	50	0.700	2046022
SV20W ALU	22.6	20.2	50	25	1.2	20	50	1.300	2046023
SV25W ALU	27.6	25.2	60	30	1.2	25	50	1.900	2046024
SV32W ALU	34.6	32.2	70	35	1.2	32	50	2.400	2046025
SV40W ALU	43	40.2	70	35	1.4	40	20	4.000	2046026
SV50W ALU	53	50.2	90	45	1.4	50	20	6.100	2046027
SV63W ALU	66.2	63.2	110	55	1.5	63	20	9.000	2046028

Accessory part: plug-in sleeve for the connections between electrical installation pipes. With burr-free inner wall.

Quick pipe connecting

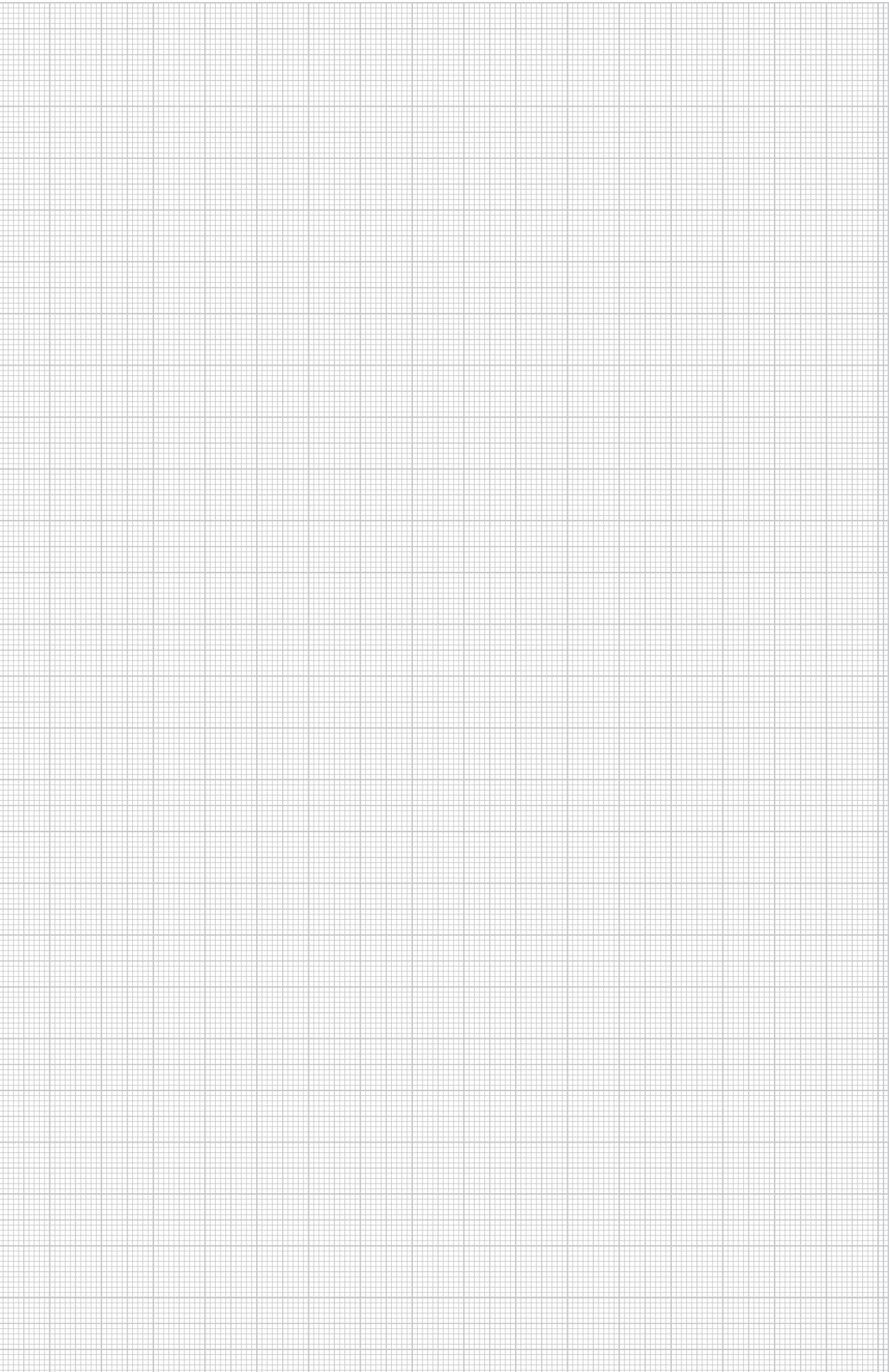
Quick pipe connection sleeve

PP
IP 44
M
Prüf-Zertifiziert
D'E



Type	Size	Colour	Dim. L mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
3000 MMS M16 LGR	M16	Light grey	52	21	10	0.299	2154081
3000 MMS M20 LGR	M20	Light grey	65	26	10	0.581	2154083
3000 MMS M25 LGR	M25	Light grey	72	31	10	0.823	2154085
3000 MMS M32 LGR	M32	Light grey	80	39	10	1.095	2154087
3000 MMS M16 RW	M16	Pure white	52	21	10	0.299	2154091
3000 MMS M20 RW	M20	Pure white	65	26	10	0.581	2154093
3000 MMS M25 RW	M25	Pure white	72	31	10	0.823	2154095
3000 MMS M32 RW	M32	Pure white	80	39	10	1.095	2154097

Connection sleeve for plastic electrical installation pipes to create straight connections. Suitable for Quick pipe pipes or corrugated pipes. Toolless closing and opening. Can be used in a temperature range of -25 to +60 °C.



One pipe end cap for all applications.

For conduits - metric and PG size

For initial installation in accordance with applicable standards, for a quick repair or retrofitting

Retrofitting via the snap-lock

The 129 TB separable pipe end sleeve from OBO simplifies work

Small cause – big expense: The remounting of missing or defective pipe end caps on electrical installation pipes has always been an unpopular and costly task. Now, the separable pipe end cap means that this is no longer the case. Open, plug it on, push it together – and you're done! Without any need to dismantle the installation. Of course, the pipe end cap makes your work easier even during initial installations.





Pipe end cap, splittable, metric, light grey

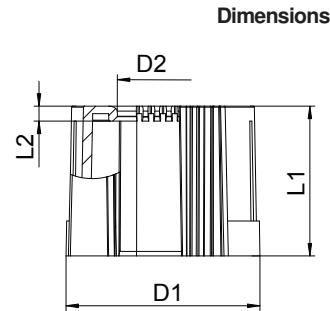
Type	Size	Dim. mm	Dim. mm	Dim. mm	Dim. mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
129 TB M16	M16	20	10	30	3	Light grey	50	0.400	2047812
129 TB M20	M20	24	13.4	30	3	Light grey	50	0.440	2047831
129 TB M25	M25	30	18.4	30	3	Light grey	50	0.500	2047839
129 TB M32	M32	36	25.4	30	3	Light grey	50	0.656	2047855
129 TB M40	M40	44	33.4	30	3	Light grey	30	0.790	2047863
129 TB M50	M50	53	43	30	3	Light grey	30	0.935	2047890
129 TB M63	M63	67	56	30	3	Light grey	20	1.140	2047898



Separable pipe end cap to slot onto metric electrical installation pipes.

The separable pipe end cap can be used for repairs on existing installations according to regulations. It is not necessary to disconnect the cables, allowing quick mounting.

Type	Dim. mm	Dim. mm	Dim. mm	Dim. mm
	D1	D2	L1	L2
	mm	mm	mm	mm
129 TB M16	20	10	30	3
129 TB M20	24	13.4	30	3
129 TB M25	30	18.4	30	3
129 TB M32	36	25.4	30	3
129 TB M40	44	33.4	30	3
129 TB M50	53	43	30	3
129 TB M63	67	56	30	3



Pipe end cap, splittable, metric, black

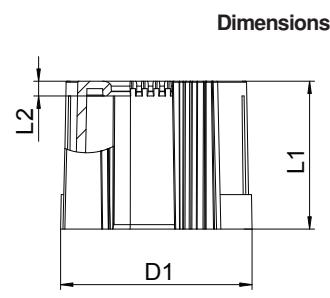
Type	Size	Dim. mm	Dim. mm	Dim. mm	Dim. mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
129 TB M16 SW	M16	20	10	30	3	Black	50	0.400	2047936
129 TB M20 SW	M20	24	13.4	30	3	Black	50	0.440	2047944
129 TB M25 SW	M25	Black					50	0.500	2047952
129 TB M32 SW	M32	36	25.4	30	3	Black	50	0.656	2047971
129 TB M40 SW	M40	44	33.4	30	3	Black	30	0.790	2047979
129 TB M50 SW	M50	53	43	30	3	Black	30	0.935	2047987
129 TB M63 SW	M63	67	56	30	3	Black	20	1.140	2047995



Separable pipe end cap to slot onto metric electrical installation pipes.

The separable pipe end cap can be used for repairs on existing installations according to regulations. It is not necessary to disconnect the cables, allowing quick mounting.

Type	Dim. mm	Dim. mm	Dim. mm	Dim. mm
	D1	D2	L1	L2
	mm	mm	mm	mm
129 TB M16 SW	20	10	30	3
129 TB M20 SW	24	13.4	30	3
129 TB M25 SW	30	18.4	30	3
129 TB M32 SW	36	25.4	30	3
129 TB M40 SW	44	33.4	30	3
129 TB M50 SW	53	43	30	3
129 TB M63 SW	67	56	30	3



Pipe system accessories

Quick pipe shears

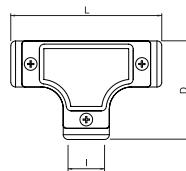


Type	Cutting area mm	Pack Piece	Weight kg/100 pc.	Item no.
SQ 1632	16-32	1	40.000	2153572

Shears for burr-free cutting of Quick Wire electrical installation pipe Ø 16–32 mm.

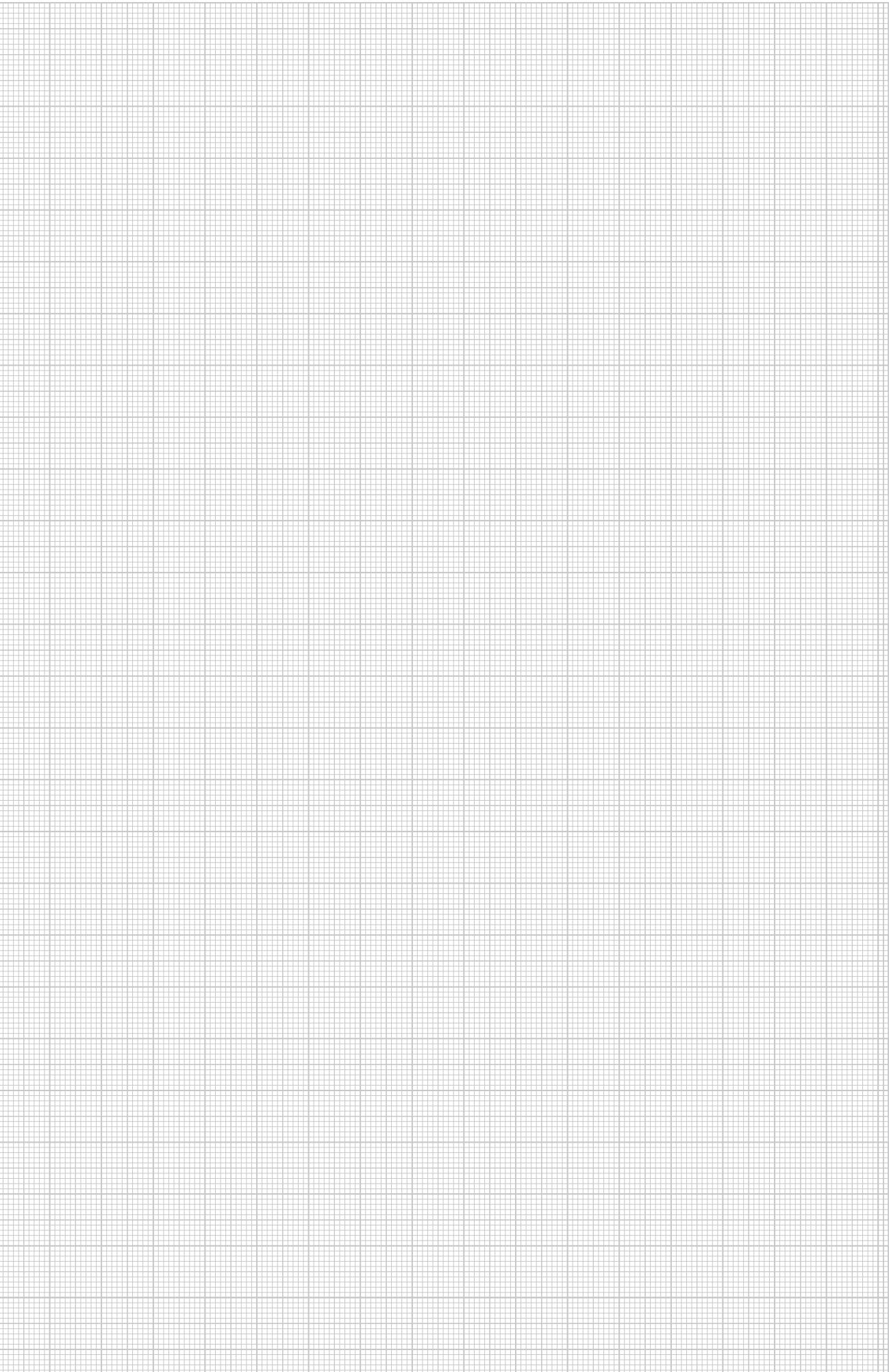
Control pieces

Control T piece without thread



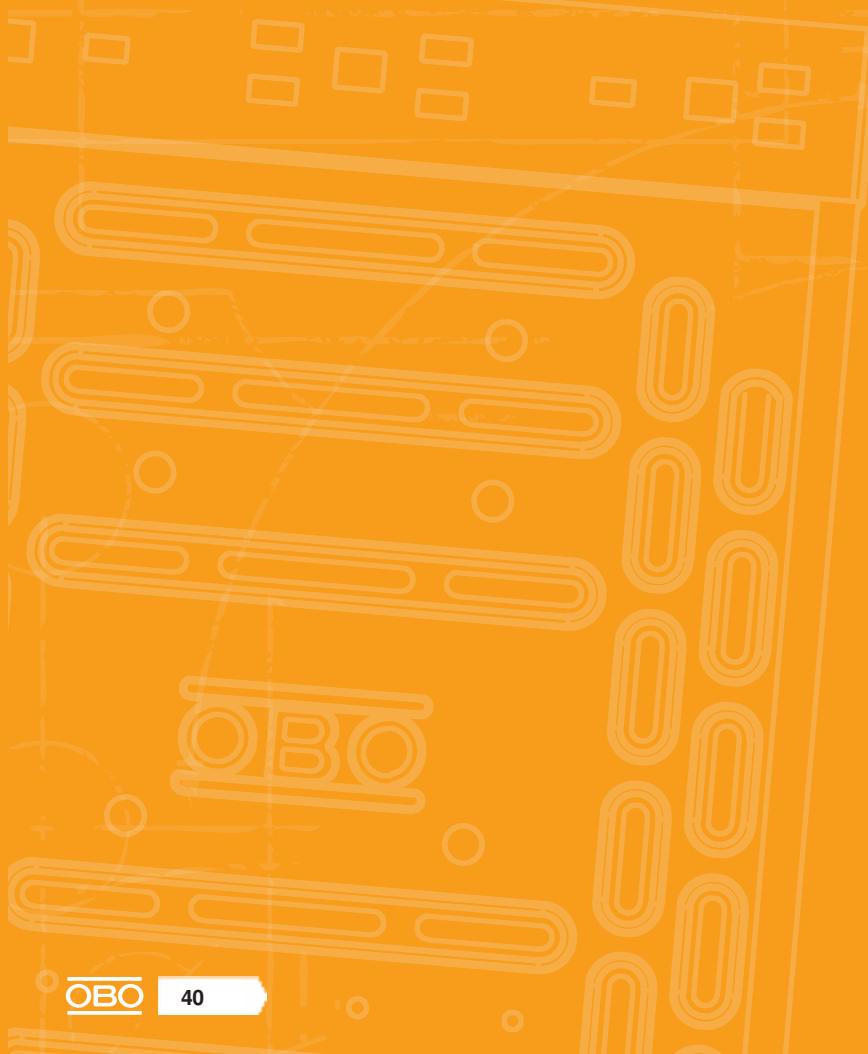
Type	Size mm	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		D mm	L mm	I mm			
SKT16W ALU	16	47.5	72	16	5	6.900	2047588
SKT20W ALU	20	65	102	20	5	12.900	2047589
SKT25W ALU	25	75	115	25	5	21.500	2047590
SKT32W ALU	32	96	156	32	4	45.300	2047591
SKT40W ALU	40	96	156	40	4	32.800	2047592
SKT50W ALU	50	124.5	194	50	2	53.100	2047593

Die-cast aluminium T piece, for mounting in pipe sections as a junction.
Removable cover for easier cable routing and later checking.



Wiring ducts

Wiring ducts



Wiring ducts

	LK4 wiring ducts	42
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	Wiring trunking HF METRA	66
	Accessories, wiring ducts	74

Precise measurements, tested quality

Wiring ducts by OBO Bettermann



OBO wiring ducts stand out through a wide range of benefits:

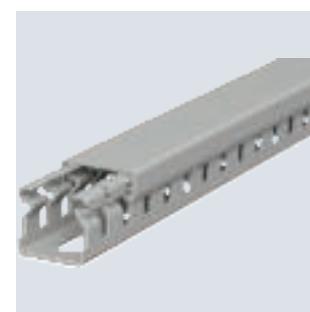
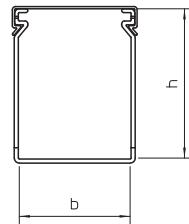
- Stable duct with high-quality thicknesses
- Exact predetermined breaking points in the strut and base area
- Soft, burr-free slot, rounded tabs
- Cut edges rounded and deburred in the closing area
- Secure positioning of the covers through optimum closing contours
- Wire retaining nose allows wiring without wire retaining clamp

PVC

Wiring trunking, type LK4 15015

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 15015	Stone grey	2000	15x15	2	12.000	6178001

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

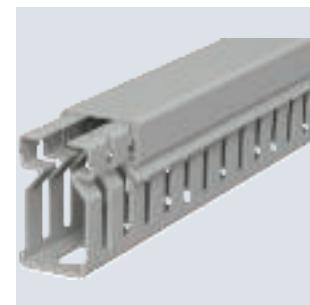
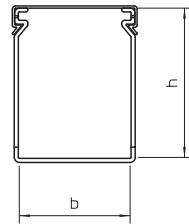


PVC

Wiring trunking, type LK4 30015

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 30015	Stone grey	2000	15x30	2	18.000	6178003

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

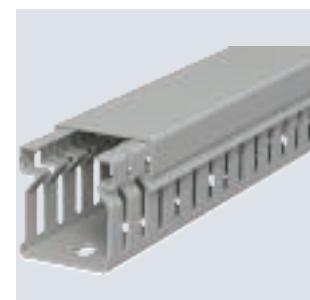
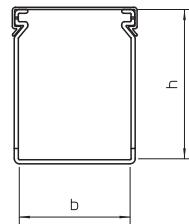


PVC

Wiring trunking, type LK4 30025

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 30025	Stone grey	2000	25x30	2	28.000	6178005

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

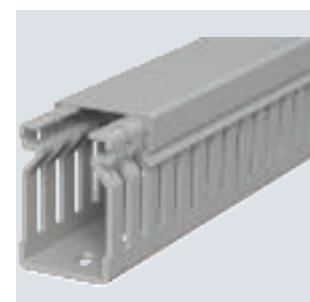
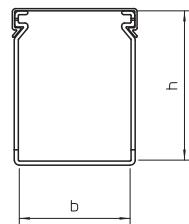


PVC

Wiring trunking, type LK4 40025

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 40025	Stone grey	2000	25x40	2	36.500	6178010

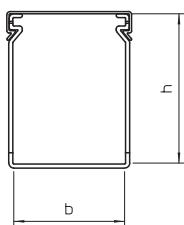
Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.



LK4 wiring trunking

Wiring trunking, type LK4 40040

PVC

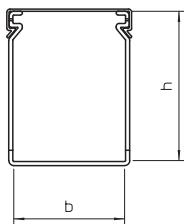


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 40040	Stone grey	2000	40x40	2	44.000	6178012

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4 40060

PVC

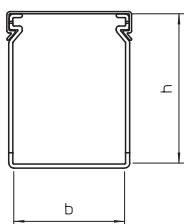
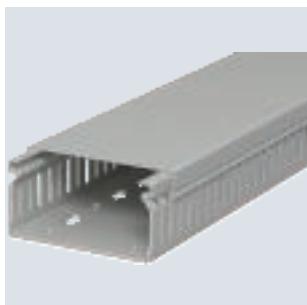


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 40060	Stone grey	2000	60x40	2	57.000	6178014

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4 40080

PVC

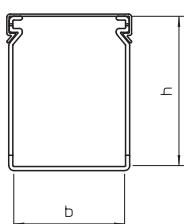


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 40080	Stone grey	2000	80x40	2	71.000	6178016

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4 40100

PVC



Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 40100	Stone grey	2000	100x40	2	85.500	6178018

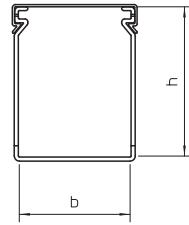
Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

PVC

Wiring trunking, type LK4 60015

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 60015	Stone grey	2000	15x60	2	32.500	6178026

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

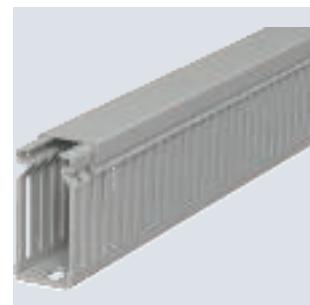
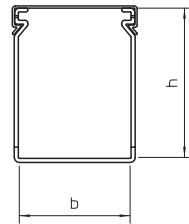


PVC

Wiring trunking, type LK4 60025

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 60025	Stone grey	2000	25x60	2	46.000	6178028

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

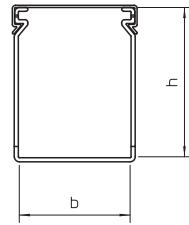


PVC

Wiring trunking, type LK4 60040

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 60040	Stone grey	2000	40x60	2	53.500	6178031

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

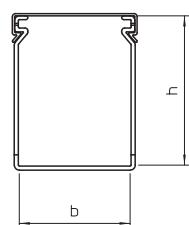


PVC

Wiring trunking, type LK4 60060

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 60060	Stone grey	2000	60x60	2	64.500	6178033

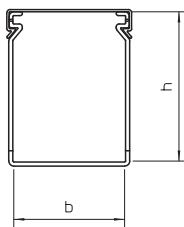
Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.



LK4 wiring trunking

Wiring trunking, type LK4 60080

PVC

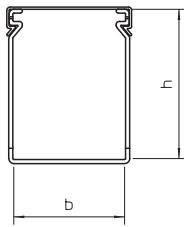
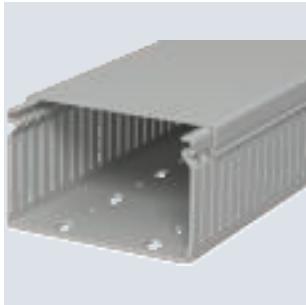


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 60080	Stone grey	2000	80x60	2	82.500	6178035

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4 60100

PVC

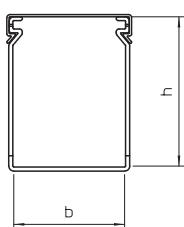
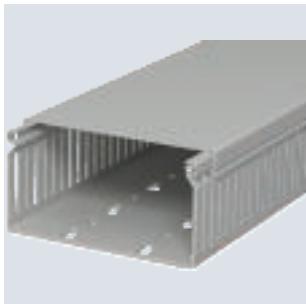


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 60100	Stone grey	2000	100x60	2	100.000	6178037

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4 60120

PVC

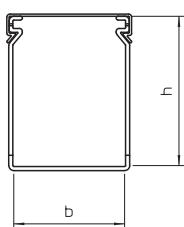
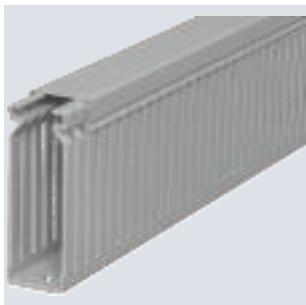


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 60120	Stone grey	2000	120x60	2	117.000	6178039

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4 80025

PVC



Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 80025	Stone grey	2000	25x80	2	61.000	6178050

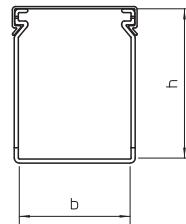
Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

PVC

Wiring trunking, type LK4 80025

Type	Colour	Dimension		Pack m	Weight kg/100 m	Item no.
		Length mm	W x H mm			
LK4 80025	Stone grey	2000	25x80	32	61.000	6178940

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

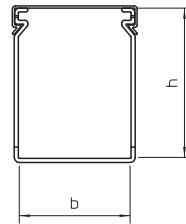


PVC

Wiring trunking, type LK4 80040

Type	Colour	Dimension		Pack m	Weight kg/100 m	Item no.
		Length mm	W x H mm			
LK4 80040	Stone grey	2000	40x80	2	64.500	6178052

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

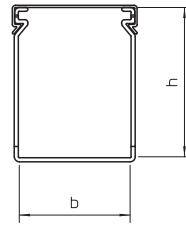


PVC

Wiring trunking, type LK4 80060

Type	Colour	Dimension		Pack m	Weight kg/100 m	Item no.
		Length mm	W x H mm			
LK4 80060	Stone grey	2000	60x80	2	76.000	6178054

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

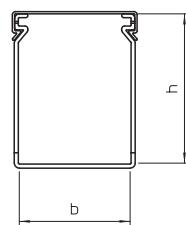


PVC

Wiring trunking, type LK4 80080

Type	Colour	Dimension		Pack m	Weight kg/100 m	Item no.
		Length mm	W x H mm			
LK4 80080	Stone grey	2000	80x80	2	95.500	6178056

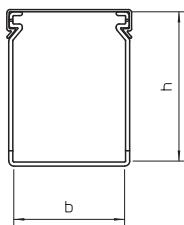
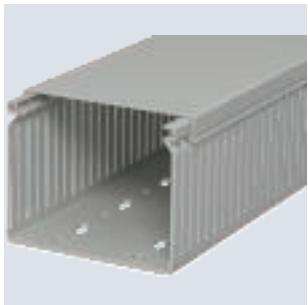
Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.



LK4 wiring trunking

Wiring trunking, type LK4 80100

PVC

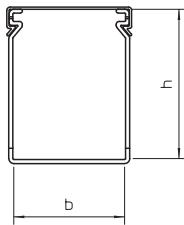


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 80100	Stone grey	2000	100x80	2	111.500	6178059

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4 80100

PVC

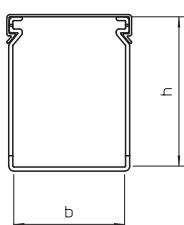
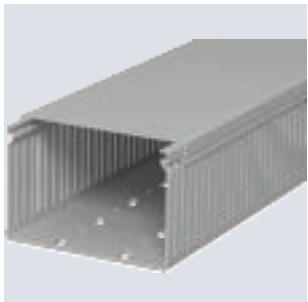


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 80100	Stone grey	2400	100x80	96	267.600	6179024

Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4 80120

PVC



Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 80120	Stone grey	2000	120x80	2	128.500	6178061

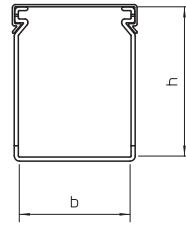
Wiring trunking including cover and base perforation. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

PVC

Wiring duct, type LK4/N 60015

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 60015	Stone grey	2000	15x60	2	41.000	6178201

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out.



Wiring ducts

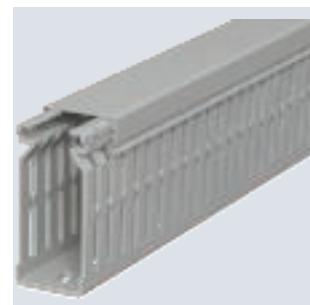
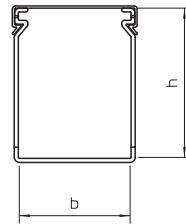


PVC

Wiring trunking, type LK4/N 60025

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 60025	Stone grey	2000	25x60	2	48.500	6178203

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

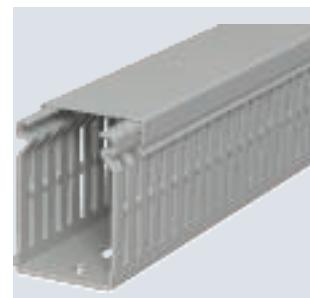
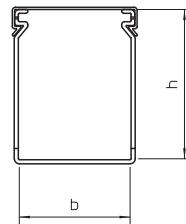


PVC

Wiring trunking, type LK4/N 60040

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 60040	Stone grey	2000	40x60	2	56.000	6178205

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

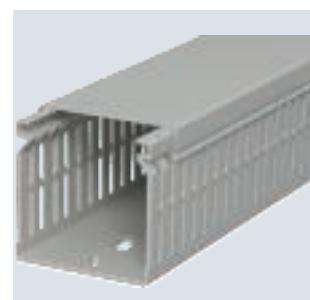
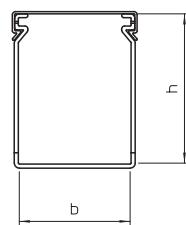


PVC

Wiring trunking, type LK4/N 60060

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 60060	Stone grey	2000	60x60	2	68.000	6178207

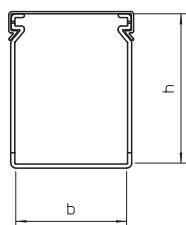
Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.



LK4/N wiring trunking

Wiring trunking, type LK4/N 60080

PVC

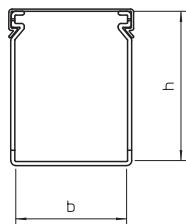


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 60080	Stone grey	2000	80x60	2	87.000	6178209

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4/N 60100

PVC

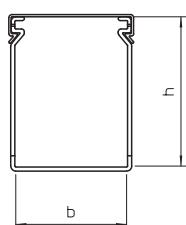


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 60100	Stone grey	2000	100x60	16	105.500	6178211

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4/N 60120

PVC

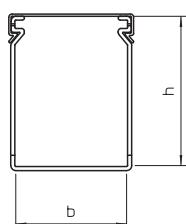


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 60120	Stone grey	2000	120x60	8	120.500	6178213

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

Wiring trunking, type LK4/N 80025

PVC



Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 80025	Stone grey	2000	25x80	2	65.000	6178225

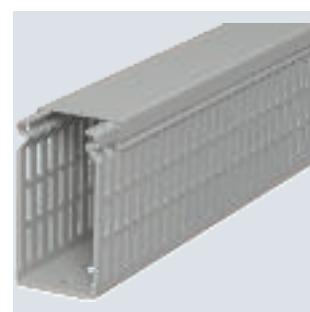
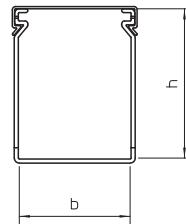
Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

PVC

Wiring trunking, type LK4/N 80040

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 80040	Stone grey	2000	40x80	2	73.500	6178227

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.



Wiring ducts

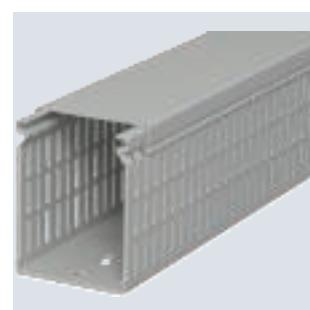
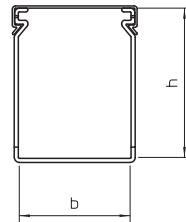


PVC

Wiring duct, type LK4/N 80060

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 80060	Stone grey	2000	60x80	2	82.000	6178229

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

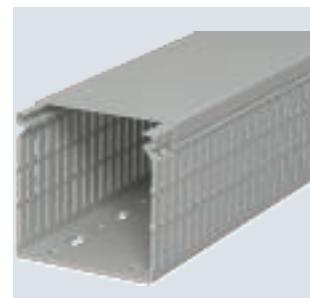
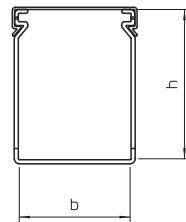


PVC

Wiring trunking, type LK4/N 80080

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 80080	Stone grey	2000	80x80	2	101.000	6178231

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

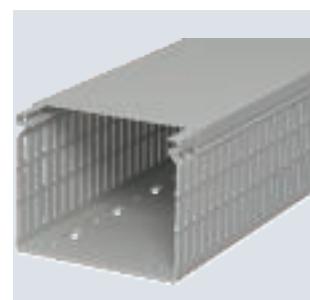
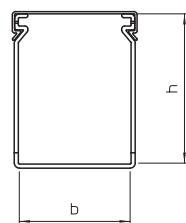


PVC

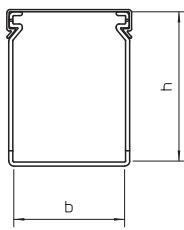
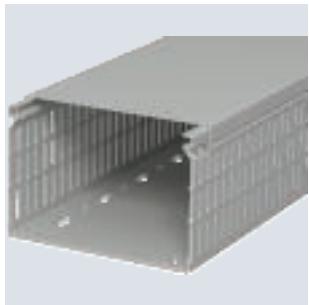
Wiring trunking, type LK4/N 80100

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 80100	Stone grey	2000	100x80	2	116.500	6178233

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.

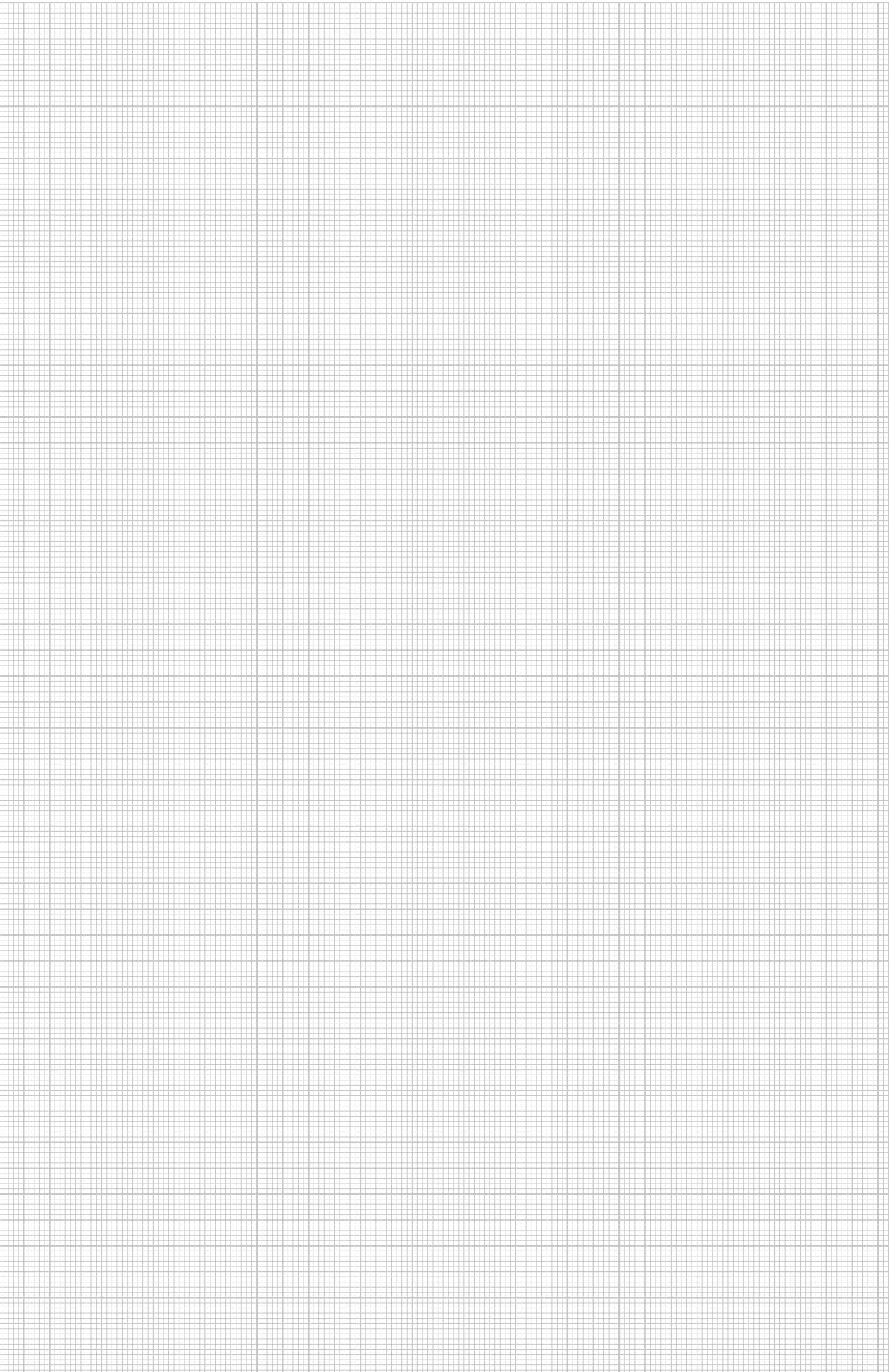


Wiring trunking, type LK4/N 80120



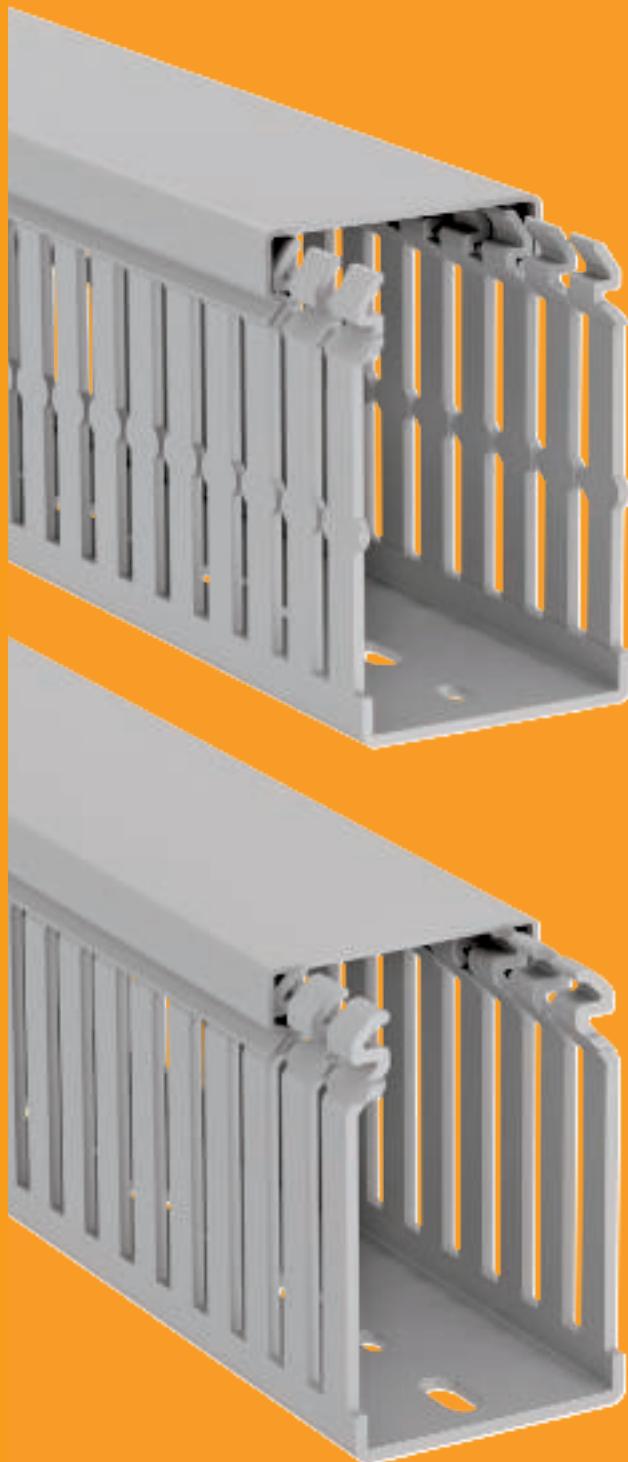
Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LK4 N 80120	Stone grey	2000	120x80	2	133.500	6178236

Wiring trunking including cover and base perforation, tapering in the side slots stops the cables from falling out. The nominal dimension of the system size corresponds to the internal dimension of the trunking. Special lengths on request.



Precise measurements, tested quality

Wiring ducts by OBO Bettermann



OBO wiring ducts stand out through a wide range of benefits:

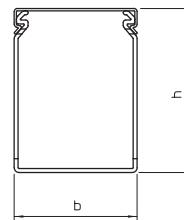
- Stable duct with high-quality thicknesses
- Exact predetermined breaking points in the strut and base area
- Soft, burr-free slot, rounded tabs
- Cut edges rounded and deburred in the closing area
- Secure positioning of the covers through optimum closing contours
- Wire retaining nose allows wiring without wire retaining clamp

PVC

Wiring trunking, type LKV 25025

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 25025	Stone grey	2000	25x25	32	24.000	6178302

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

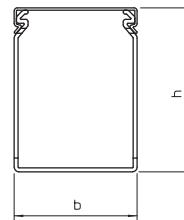


PVC

Wiring trunking, type LKV 37025

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 37025	Stone grey	2000	25x37,5	32	31.500	6178305

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

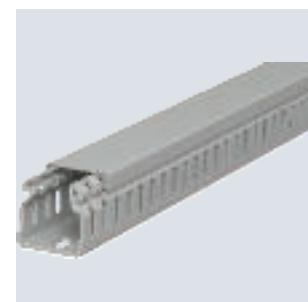
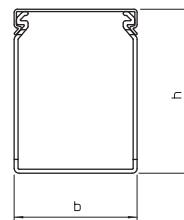


PVC

Wiring trunking, type LKV 37037

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 37037	Stone grey	2000	37,5x37,5	60	40.500	6178307

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

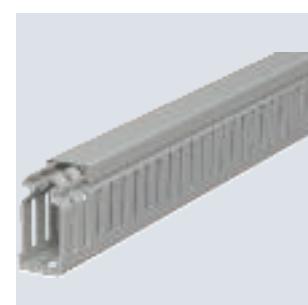
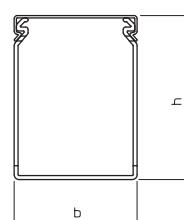


PVC

Wiring trunking, type LKV 50025

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 50025	Stone grey	2000	25x50	60	35.500	6178310

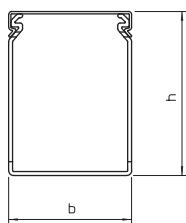
Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.



LKV DIN wiring trunking

Wiring trunking, type LKV 50037

PVC

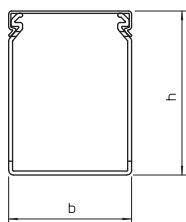


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 50037	Stone grey	2000	37,5x50	48	44.500	6178312

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

Wiring trunking, type LKV 50050

PVC

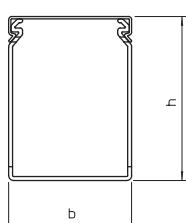


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 50050	Stone grey	2000	50x50	36	50.000	6178314

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

Wiring trunking, type LKV 50075

PVC

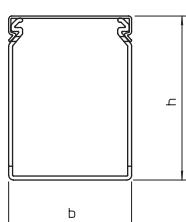


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 50075	Stone grey	2000	75x50	24	66.000	6178316

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

Wiring trunking, type LKV 75025

PVC



Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 75025	Stone grey	2000	25x75	40	48.500	6178320

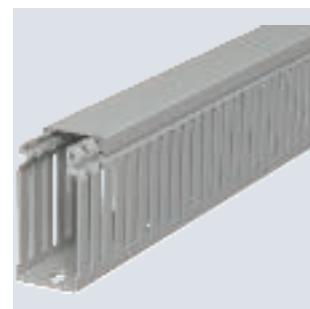
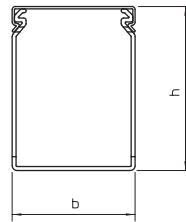
Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

PVC

Wiring trunking, type LKV 75037

Type	Colour	Dimension		Pack m	Weight kg/100 m	Item no.
		Length mm	W x H mm			
LKV 75037	Stone grey	2000	37,5x75	32	58.500	6178322

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.



Wiring ducts

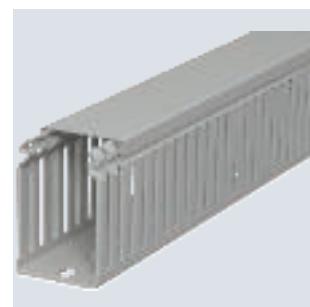
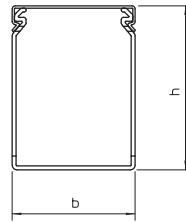


PVC

Wiring trunking, type LKV 75050

Type	Colour	Dimension		Pack m	Weight kg/100 m	Item no.
		Length mm	W x H mm			
LKV 75050	Stone grey	2000	50x75	24	67.500	6178324

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

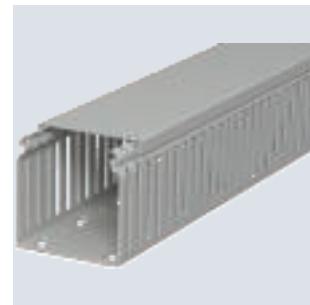
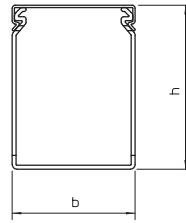


PVC

Wiring trunking, type LKV 75075

Type	Colour	Dimension		Pack m	Weight kg/100 m	Item no.
		Length mm	W x H mm			
LKV 75075	Stone grey	2000	75x75	16	80.000	6178326

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

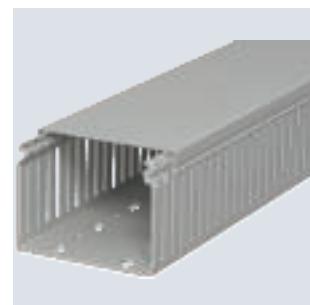
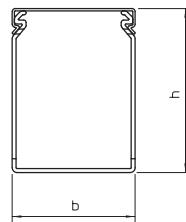


PVC

Wiring trunking, type LKV 75100

Type	Colour	Dimension		Pack m	Weight kg/100 m	Item no.
		Length mm	W x H mm			
LKV 75100	Stone grey	2000	100x75	16	105.500	6178328

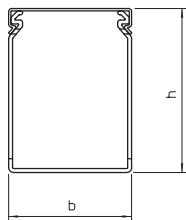
Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.



LKV DIN wiring trunking

Wiring trunking, type LKV 75125

PVC

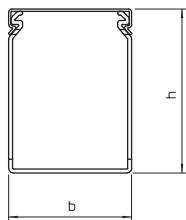


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 75125	Stone grey	2000	125x75	8	128.500	6178330

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

Wiring trunking, type LKV 10037

PVC

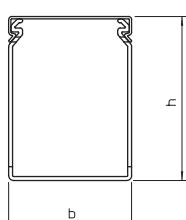


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 10037	Stone grey	2000	37,5x100	32	67.000	6178334

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

Wiring trunking, type LKV 10050

PVC

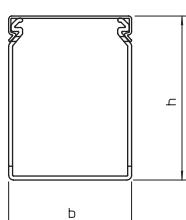


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 10050	Stone grey	2000	50x100	24	77.000	6178336

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

Wiring trunking, type LKV 10075

PVC



Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 10075	Stone grey	2000	75x100	16	96.000	6178338

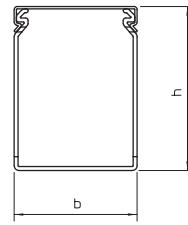
Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.

PVC

Wiring trunking, type LKV 100100

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV 100100	Stone grey	2000	100x100	8	116.500	6178341

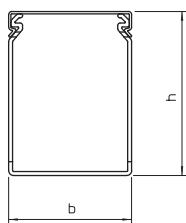
Wiring trunking to DIN EN 50085-2-3 including cover and base perforation. Special lengths on request.



LKV/N DIN wiring trunking

Wiring trunking, type LKV N 75025

PVC

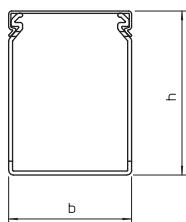


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 75025	Stone grey	2000	25x75	40	49.500	6178420

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.

Wiring trunking, type LKV N 75037

PVC

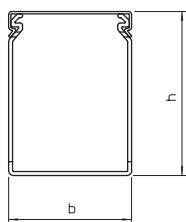


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 75037	Stone grey	2000	37.5x75	32	60.500	6178422

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.

Wiring trunking, type LKV N 75050

PVC

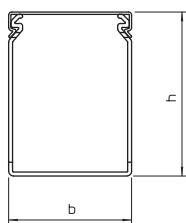


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 75050	Stone grey	2000	50x75	24	72.500	6178424

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.

Wiring trunking, type LKV N 75075

PVC



Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 75075	Stone grey	2000	75x75	16	84.500	6178426

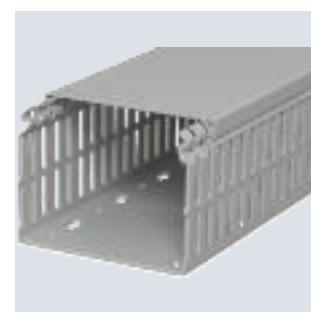
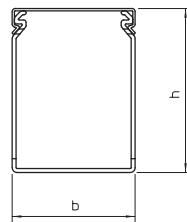
Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.

PVC

Wiring trunking, type LKV N 75100

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 75100	Stone grey	2000	100x75	16	112.000	6178428

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.



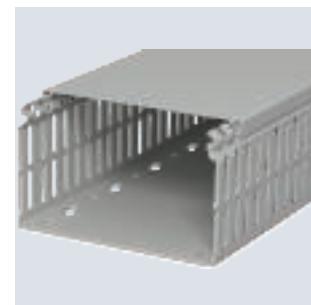
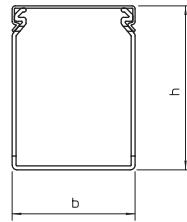
Wiring ducts

PVC

Wiring trunking, type LKV N 75125

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 75125	Stone grey	2000	125x75	8	138.500	6178430

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.

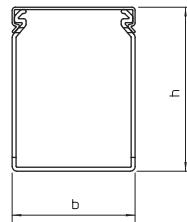


PVC

Wiring trunking, type LKV N 10037

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 10037	Stone grey	2000	37,5x100	32	73.000	6178435

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.

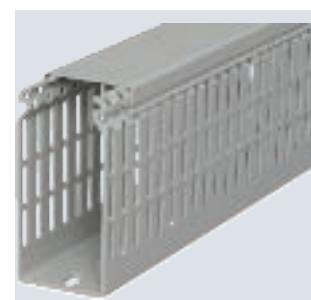
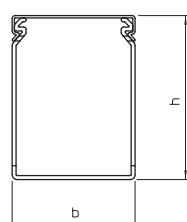


PVC

Wiring trunking, type LKV N 10050

Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 10050	Stone grey	2000	50x100	24	83.000	6178437

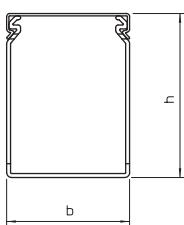
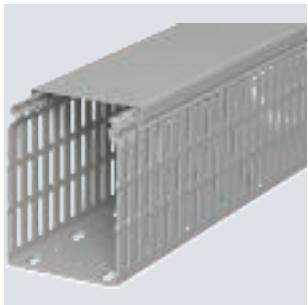
Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.



LKV/N DIN wiring trunking

Wiring trunking, type LKV N 10075

PVC

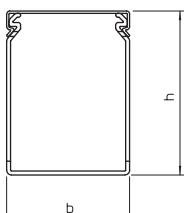


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 10075	Stone grey	2000	75x100		16	102.000 6178439

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.

Wiring trunking, type LKV N 100100

PVC

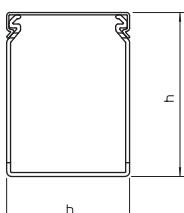


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKV N 100100	Stone grey	2000	100x100		8	122.500 6178441

Wiring trunking to DIN EN 50085-2-3 including cover and base perforation, tapering in the side slots stops the cables from falling out.

LKVH DIN wiring trunking, halogen-free

Wiring trunking, type LKV H 50037

PC/
ABS

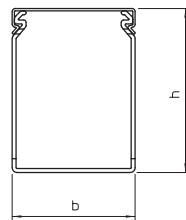
Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKVH 50037	Light grey	2000	37.5x50		48	32.000 6178582

Halogen-free wiring duct including cover and base perforation to DIN EN 50085-2-3.

PC /
ABS**Wiring trunking, type LKV H 50050**

Type	Colour	Length mm	Dimension W x H mm		Pack m	Weight kg/100 m	Item no.
LKVH 50050	Light grey	2000	50x50		36	37.000	6178585

Halogen-free wiring duct including cover and base perforation to DIN EN 50085-2-3.

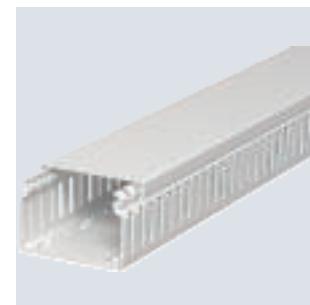
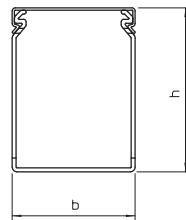


Wiring ducts

PC /
ABS**Wiring trunking, type LKV H 50075**

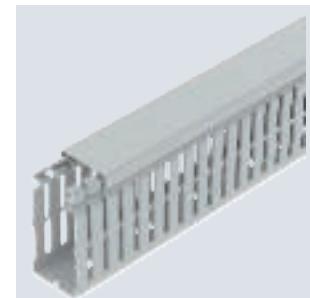
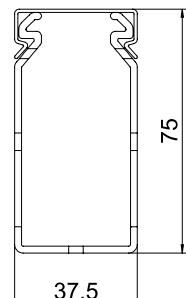
Type	Colour	Length mm	Dimension W x H mm		Pack m	Weight kg/100 m	Item no.
LKVH 50075	Light grey	2000	75x50		24	52.000	6178588

Halogen-free wiring duct including cover and base perforation to DIN EN 50085-2-3.

PC /
ABS**Wiring trunking, type LKV H 75037**

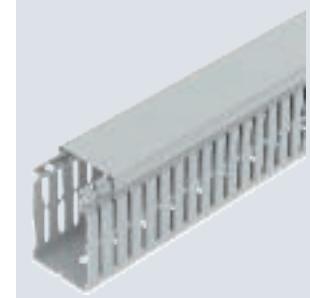
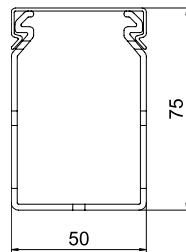
Type	Colour	Length mm	Dimension W x H mm		Pack m	Weight kg/100 m	Item no.
LKVH N 75037	Light grey	2000	37,5x75		32	44.000	6178552

Halogen-free wiring trunking including cover and base perforation to DIN EN 50085-2-3.

PC /
ABS**Wiring trunking, type LKV H 75050**

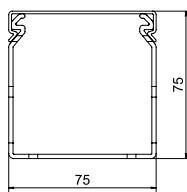
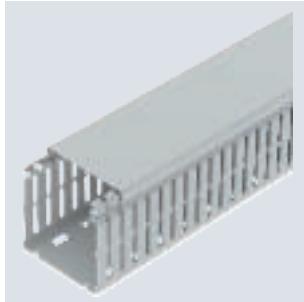
Type	Colour	Length mm	Dimension W x H mm		Pack m	Weight kg/100 m	Item no.
LKVH N 75050	Light grey	2000	50x75		24	51.000	6178556

Halogen-free wiring trunking including cover and base perforation to DIN EN 50085-2-3.



Wiring trunking, type LKV H 75075

PC/
ABS

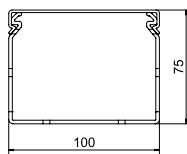
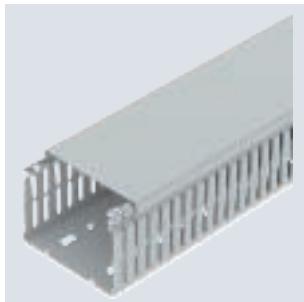


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKVH N 75075	Light grey	2000	75x75	16	64.000	6178559

Halogen-free wiring trunking including cover and base perforation to DIN EN 50085-2-3.

Wiring trunking, type LKV H 75100

PC/
ABS

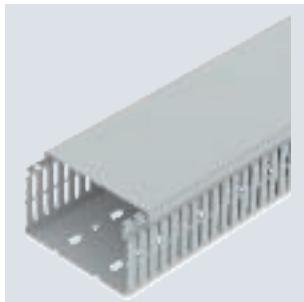


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKVH N 75100	Light grey	2000	100x75	16	84.000	6178563

Halogen-free wiring trunking including cover and base perforation to DIN EN 50085-2-3.

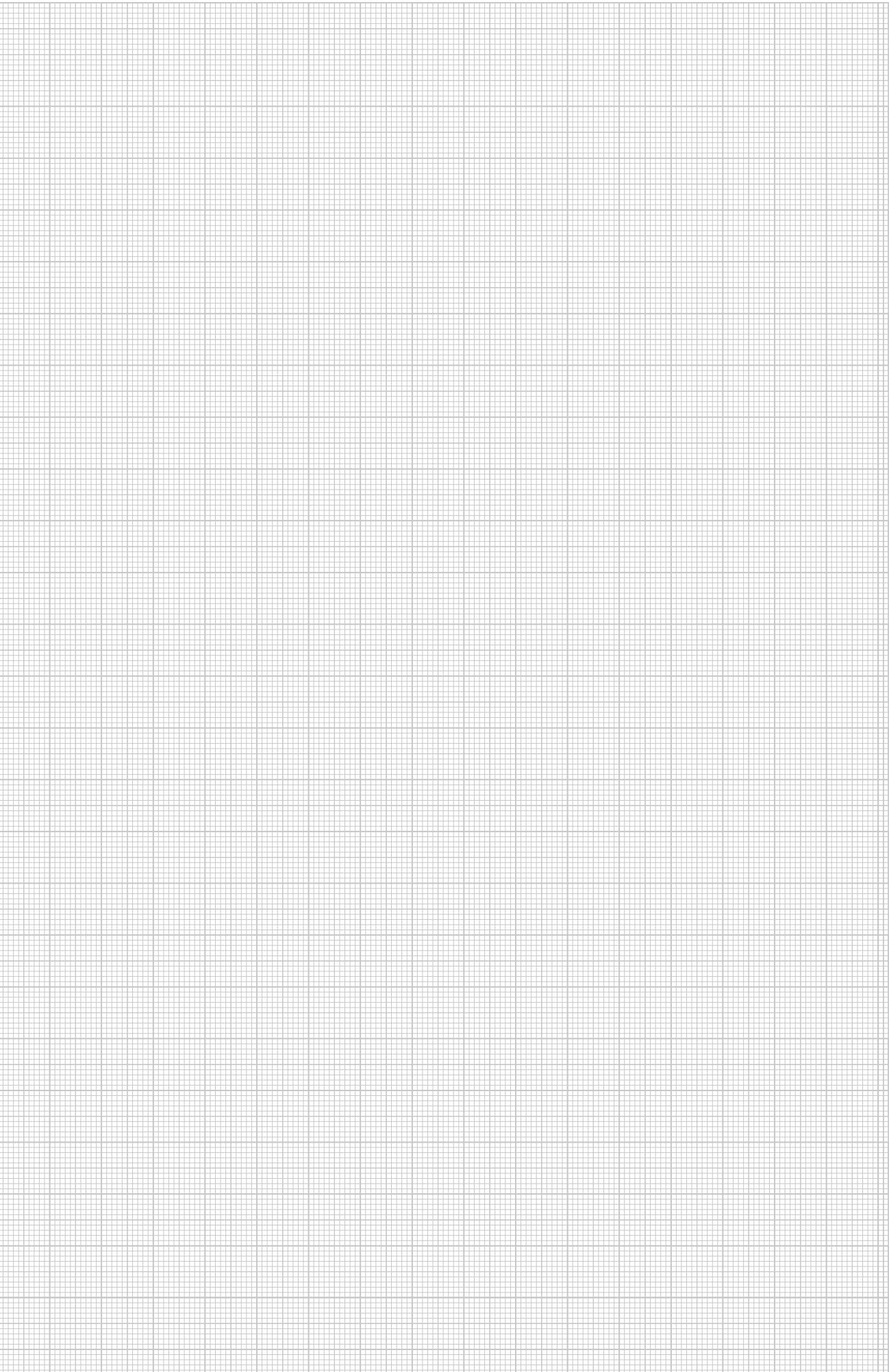
Wiring trunking, type LKV H 75125

PC/
ABS

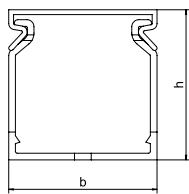


Type	Colour	Dimension		Pack	Weight	Item no.
		Length mm	W x H mm			
LKVH N 75125	Light grey	2000	125x75	8	98.500	6178566

Halogen-free wiring trunking including cover and base perforation to DIN EN 50085-2-3.



Wiring trunking, type LK4H 30030



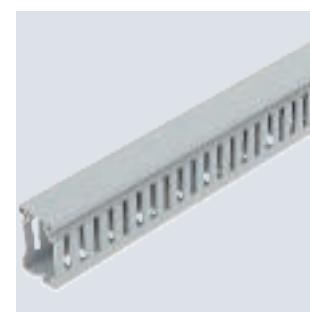
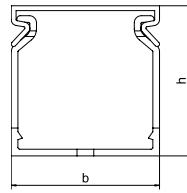
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H 30030	Light grey	2000	30	30	2	18.000	6132540

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H 40025**

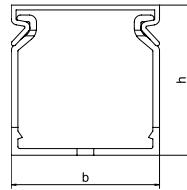
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H 40025	Light grey	2000	25	40	2	21.000	6132544

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H 40040**

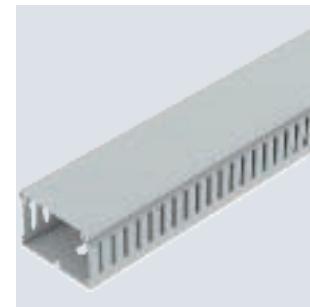
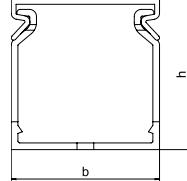
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H 40040	Light grey	2000	40	40	2	50.000	6132546

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H 40060**

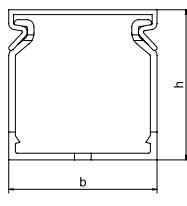
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H 40060	Light grey	2000	60	40	2	35.000	6132548

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.



Wiring trunking HF-METRA, trunking height 60

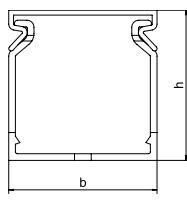
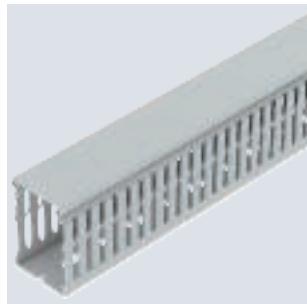
Wiring trunking, type LK4H N 60025

PC/
ABS

Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 60025	Light grey	2000	25	60	2	26.000	6132550

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

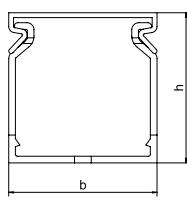
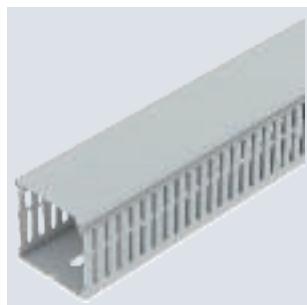
Wiring trunking, type LK4H N 60040

PC/
ABS

Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 60040	Light grey	2000	40	60	2	35.000	6132552

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

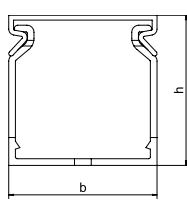
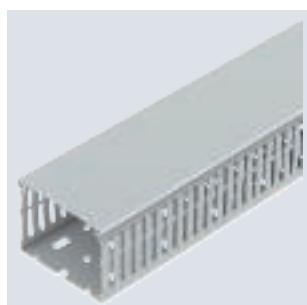
Wiring trunking, type LK4H N 60060

PC/
ABS

Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 60060	Light grey	2000	60	60	2	42.000	6132554

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

Wiring trunking, type LK4H N 60080

PC/
ABS

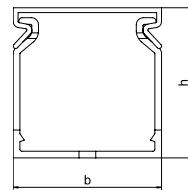
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 60080	Light grey	2000	80	60	2	52.000	6132556

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H N 80025**

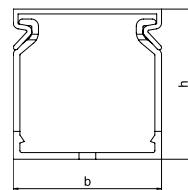
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 80025	Light grey	2000	25	80	2	35.000	6132560

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H N 80040**

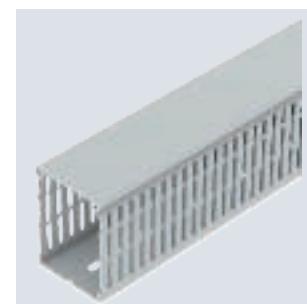
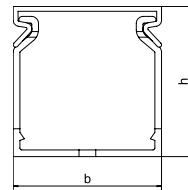
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 80040	Light grey	2000	40	80	2	43.000	6132562

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H N 80060**

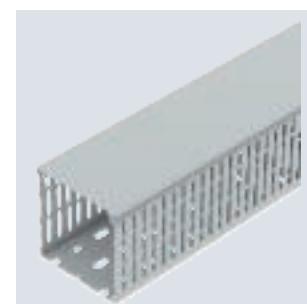
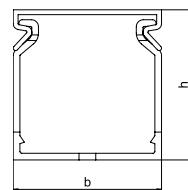
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 80060	Light grey	2000	60	80	2	54.000	6132564

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H N 80080**

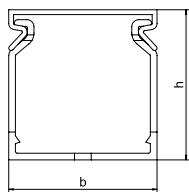
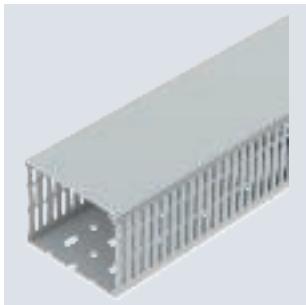
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 80080	Light grey	2000	80	80	2	62.000	6132566

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.



Wiring trunking HF-METRA, trunking height 80

Wiring trunking, type LK4H N 80100

PC/
ABS

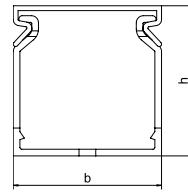
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 80100	Light grey	2000	100	80	2	67.000	6132568

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H N 10040**

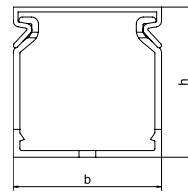
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 10040	Light grey	2000	40	100	2	90.000	6132570

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H N 10060**

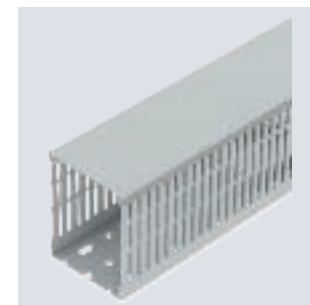
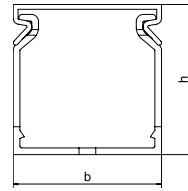
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 10060	Light grey	2000	60	100	2	66.000	6132572

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H N 10080**

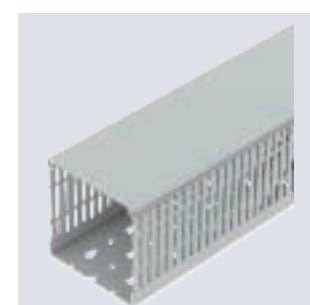
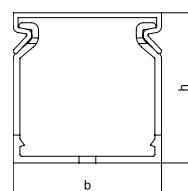
Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 10080	Light grey	2000	80	100	2	90.000	6132574

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

PC /
ABS**Wiring trunking, type LK4H N 100100**

Type	Colour	Length mm	Width mm	Height mm	Pack m	Weight kg/100 m	Item no.
LK4H N 100100	Light grey	2000	100	100	2	90.000	6132576

Halogen-free wiring trunking for horizontal and vertical routing in the switchgear cabinet.

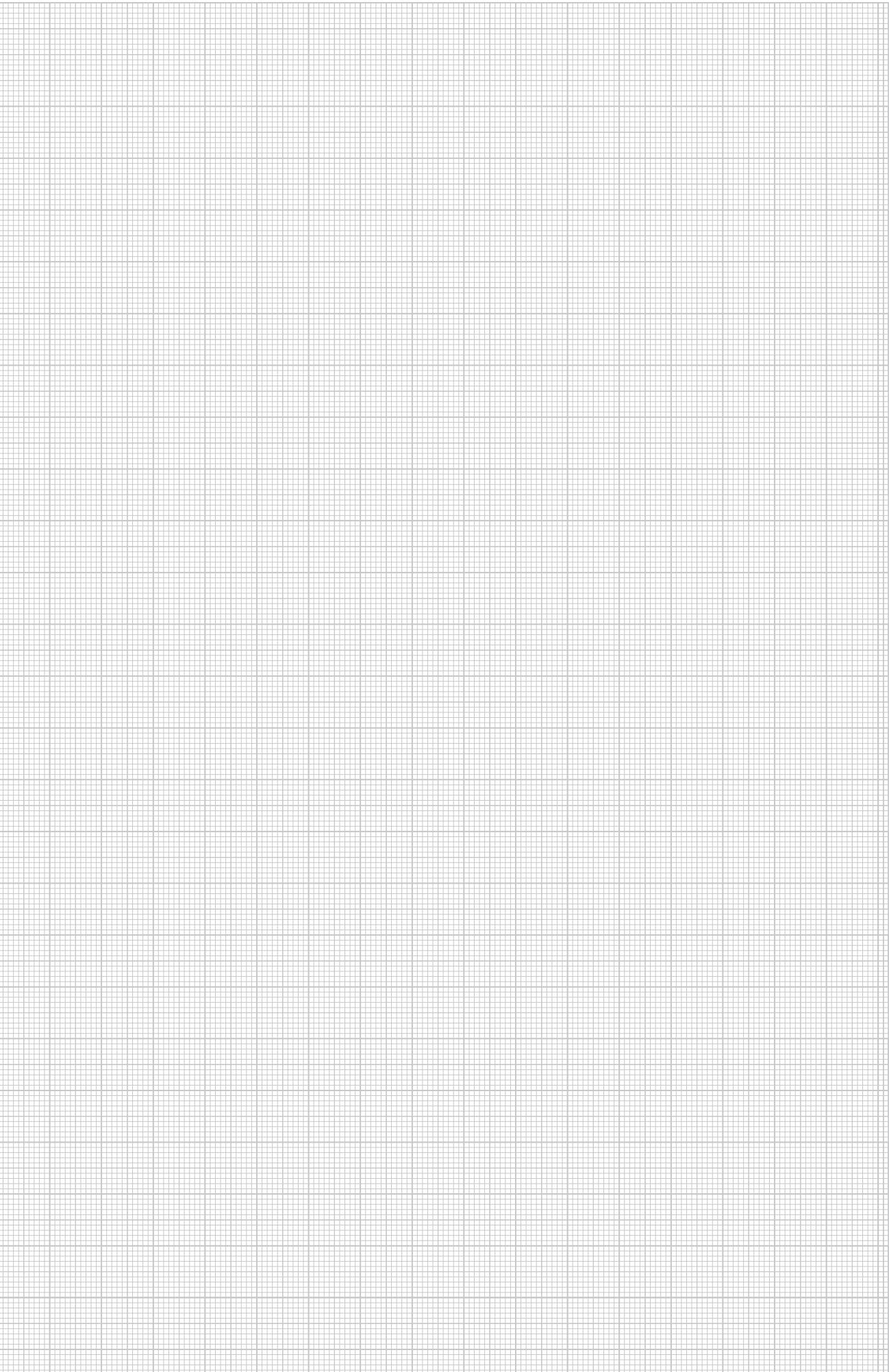


Trunking retaining clip VDK HF KHUni



Type	Colour	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
VDK HF KHUni	Stone grey	76	20	22	50	1.000	6132593

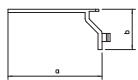
Cover for HF halogen-free wiring duct.



Wire retainers

Wire retainer for type LK4 and LK4/N

PS

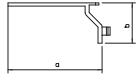


Type	Colour	Dim. mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
LK4 H	Stone grey	56	25	100	0.348	617802

Wire retainer for wiring duct, type LK4 and LK4/N. The wire retainer prevents already inserted cables from falling out. These predetermined breaking points allow the length to be reduced for various trunking widths to 38, 28 and 23 mm.

Wire retainer for type LKV and LKV N

PS

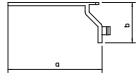


Type	Colour	Dim. mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
LKV H	Stone grey	56	25	100	0.343	6178349

Wire retainer for wiring duct, type LKV and LKV N. The wire retainer prevents already inserted cables from falling out. These predetermined breaking points allow the length to be reduced for various trunking widths to 38, 28 and 23 mm.

Wire retainer for type LKV/H

PS



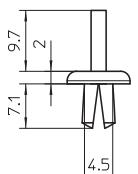
Type	Colour	Dim. mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
LKV H H	Light grey	56	25	100	0.349	6178650

Wire retainer for halogen-free wiring duct, type LKV/H. The wire retainer prevents already inserted cables from falling out. These predetermined breaking points allow the length to be reduced for various duct widths to 38, 28 and 23 mm.

Spreading rivets

Spreading rivet, KSN 1

PP

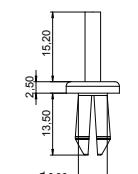


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KSN1	Light grey	100	0.026	6178520

The KNW1 riveting tool should be used for rapid mounting and for the optimum function.

Body-bound rivet, KSN 22

PA



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KSN22	Light grey	100	0.070	6178525

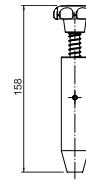
The KNW2 riveting tool should be used for rapid mounting and for the optimum function. Dimension of the drill hole: 6.5 mm.

POM

Plastic rivet tool KNW1

Type	Colour	Dimension	Pack	Weight	
			Piece	kg/100 pc.	Item no.
KNW1	Black	Ø 4.5mm	1	9.300	6178527

Riveting tool for installing body-bound rivets 4.5 mm.



Wiring ducts

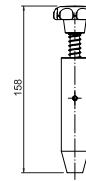


POM

Plastic rivet tool KNW2

Type	Colour	Dimension	Pack	Weight	
			Piece	kg/100 pc.	Item no.
KNW2	Black	Ø 6mm	1	9.400	6178529

Riveting tool for mounting spreading rivets 6 mm.

**Release pliers**

St

Release pliers

Type	Pack	Weight	
	Piece	kg/100 pc.	Item no.
AKZ2	1	45.000	6178533

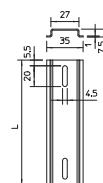
To notch the bars down to the duct base.

**Hat profile rails**

St FS
35

Hat profile rail 35 x 7.5 mm

Type	Version	Length mm	Pack	Weight	
			Piece	kg/100 pc.	Item no.
2069 T100 GTP	For T100 lengthwise + T160 crosswise	118	10	4.140	1115382
2069 T160 GTP	For T160 lengthwise + T250, T350 crosswise	157	10	5.520	1115384
2069 T250 GTP	For T250 lengthwise	206	10	7.107	1115386
2069 T350 GTP	For T350 lengthwise	245	10	8.450	1115388
2069 T60 GTP	For T60 lengthwise + T100 crosswise	89	10	3.070	1115380

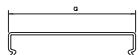
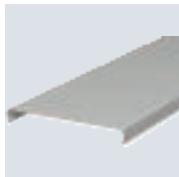


Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

Covers

Cover LK4 D 120

PVC

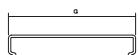


Type	Colour	Dim. mm	Length mm	Pack m	Weight kg/100 m	Item no.
LK4 D 120	Stone grey	127.8	2000	2	45.500	6178492

Trunking cover for replacement requirements.

Cover LK4 D 100

PVC

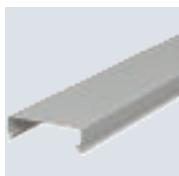


Type	Colour	Dim. mm	Length mm	Pack m	Weight kg/100 m	Item no.
LK4 D 100	Stone grey	107.4	2000	2	35.500	6178490

Trunking cover for replacement requirements.

Cover LK4 D 80

PVC

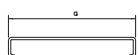
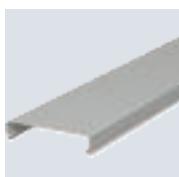


Type	Colour	Dim. mm	Length mm	Pack m	Weight kg/100 m	Item no.
LK4 D 80	Stone grey	87	2000	2	27.000	6178488

Trunking cover for replacement requirements.

Cover LK4 D 60

PVC

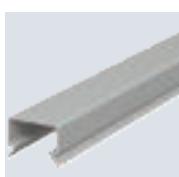


Type	Colour	Dim. mm	Length mm	Pack m	Weight kg/100 m	Item no.
LK4 D 60	Stone grey	66.4	2000	2	18.000	6178486

Trunking cover for replacement requirements.

Cover LK4 D 15

PVC



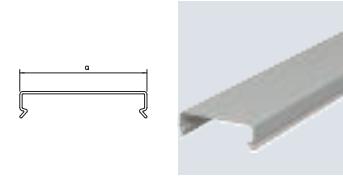
Type	Colour	Dim. mm	Length mm	Pack m	Weight kg/100 m	Item no.
LK4 D 15	Stone grey	20	2000	2	8.500	6178480

Trunking cover for replacement requirements.

PVC

Type	Colour	Dim.	Length	Pack	Weight	
		mm	mm	m	kg/100 m	Item no.
LK4 D 40	Stone grey	46.2	2000	2	13.500	6178484

Trunking cover for replacement requirements.

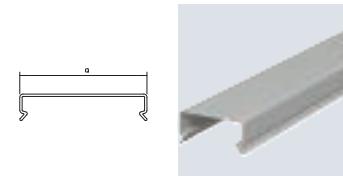
Cover LK4 D 40

Wiring ducts

PVC

Type	Colour	Dim.	Length	Pack	Weight	
		mm	mm	m	kg/100 m	Item no.
LK4 D 25	Stone grey	31	2000	2	10.000	6178482

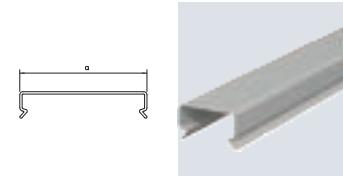
Trunking cover for replacement requirements.

Cover LK4 D 25

PVC

Type	Colour	Dim.	Length	Pack	Weight	
		mm	mm	m	kg/100 m	Item no.
LKV D 25	Stone grey	25	2000	36	9.500	6178504

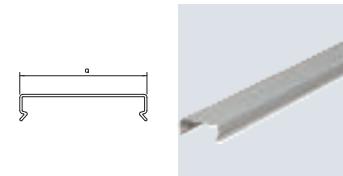
Trunking cover for replacement requirements.

Cover LKV D 25

PVC

Type	Colour	Dim.	Length	Pack	Weight	
		mm	mm	m	kg/100 m	Item no.
LKV D 37	Stone grey	37.5	2000	24	15.000	6178506

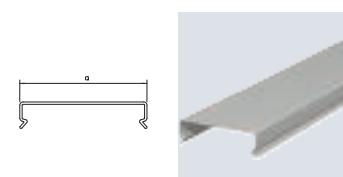
Trunking cover for replacement requirements.

Cover LKV D 37

PVC

Type	Colour	Dim.	Length	Pack	Weight	
		mm	mm	m	kg/100 m	Item no.
LKV D 50	Stone grey	50	2000	24	17.500	6178508

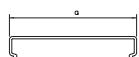
Trunking cover for replacement requirements.

Cover LKV D 50

Covers

Cover LKV D 75

PVC

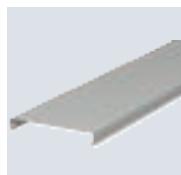


Type	Colour	Dim.	Length	Pack	Weight	
LKV D 75	Stone grey	75	mm	m	kg/100 m	Item no.
		2000		12	23.000	6178510

Trunking cover for replacement requirements.

Cover LKV D 100

PVC



Type	Colour	Dim.	Length	Pack	Weight	
LKV D 100	Stone grey	100	mm	m	kg/100 m	Item no.
		2000		12	34.500	6178512

Trunking cover for replacement requirements.

Cover LKV D 125

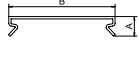
PVC



Type	Colour	Dim.	Length	Pack	Weight	
LKV D 125	Stone grey	125	mm	m	kg/100 m	Item no.
		2000		16	47.000	6178514

Trunking cover for replacement requirements.

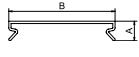
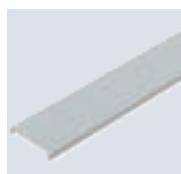
Cover LK4H 25

PC/
ABS

Type	Colour	Length	Width	Height	Pack	Weight	
LK4H D 25	Light grey	2000	25	10	m	kg/100 m	Item no.
					2	8.000	6132580

Cover for LK4H 25 wiring trunking.

Cover LK4H 60

PC/
ABS

Type	Colour	Length	Width	Height	Pack	Weight	
LK4H D 60	Light grey	2000	60	10	m	kg/100 m	Item no.
					2	20.000	6132582

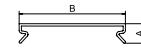
Cover for LK4H wiring trunking.

PC /
ABS

Type	Colour	Length mm	Width mm	Height mm
LK4H D 80	Light grey	2000	80	10

Pack m	Weight kg/100 m	Item no.
2	26.000	6132584

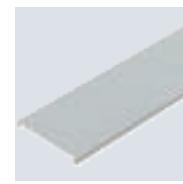
Cover for LK4H 80 wiring trunking.

Cover LK4H 80PC /
ABS

Type	Colour	Length mm	Width mm	Height mm
LK4H D 100	Light grey	2000	100	10

Pack m	Weight kg/100 m	Item no.
2	30.000	6132586

Cover for LK4H 100 wiring trunking.

Cover LK4H 100

Power supply units

Power supply units

	Power supply units	82
	Mounting and suspension material	92
	Accessories, power supply units	94
	Motor connection columns	102





Flexible equipment

Robust

Safe



Workshops and work areas



Industrial and assembly workplaces



Seminar and classrooms

HoverCube by OBO

Suspended energy distributor for workplaces and machines in industry, the trades and in training areas. The HoverCubes can be placed freely in the room. They are supplied from the ceiling. Depending on the protection rating, they can be equipped flexibly from power, data and media technology through to work media such as compressed air.

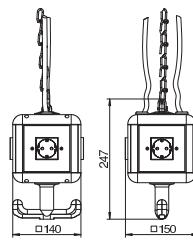
PA

HoverCube VH-4, 4x protective contact socket

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 4SD	Graphite black	1	95.000	6109802

Housing equipped and pre-wired with suspension lug, grip hook and four cover plates.

Equipped as follows: 4x single protective contact sockets 16 A/250 V with increased touch protection, pre-wired for two AC currents, connection via 2x 3-pin terminals, 1x CEE socket 16 A/415 V, with partition for circuit separation.



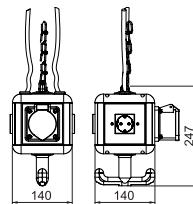
PA

HoverCube VH-4, 3x protective contact socket, 1x CEE 16 A

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 3SD1C16	Graphite black	1	115.700	6109804

Housing equipped and pre-wired with suspension lug, grip hook and four cover plates.

Equipped as follows: 3x single protective contact sockets 16 A/250 V with increased touch protection, pre-wired for an AC current, connection via 1x 3-pin terminal, 1x CEE socket 16 A/415 V, with partition for circuit separation.

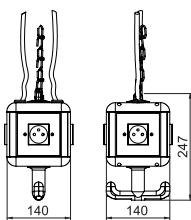




VH - Prewired power supply units IP20

PA

HoverCube VH-4, 4x earthing pin socket



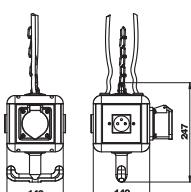
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 4SF	Graphite black	1	95.000	6109806

Housing equipped and pre-wired with suspension lug, grip hook and four cover plates.

Equipped as follows: 4x single sockets with earthing pin 16 A/250 V with increased touch protection, pre-wired for two AC currents, connection via 2x 3-pin terminals, 1x CEE socket 16 A/415 V, with partition for circuit separation.

HoverCube VH-4, 3x earthing pin socket, 1x CEE 16 A

PA



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 3SF1C16	Graphite black	1	115.700	6109808

Housing equipped and pre-wired with suspension lug, grip hook and four cover plates.

Equipped as follows: 3x single sockets with earthing pin 16 A/250 V with increased touch protection, pre-wired for an AC current, connection via 1x 3-pin terminal, 1x CEE socket 16 A/415 V, with partition for circuit separation.

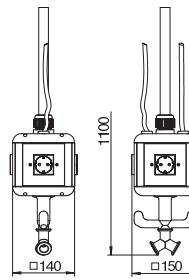
PA

HoverCube VH-4, 4x protective contact socket, with compressed air connection

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4L 4SD	Graphite black	1	428.600	6109812

Housing equipped and pre-wired, with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2", with suspension lug, grip hook and four cover plates.

Equipped as follows: 4x single protective contact sockets 16 A/250 V with increased touch protection, pre-wired for two AC currents, connection via 2x 3-pin terminals, 1x CEE socket 16 A/415 V, with partition for circuit separation.



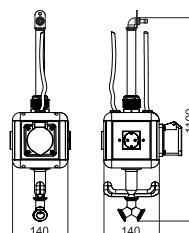
PA

HoverCube VH-4, 3x protective contact socket, 1x CEE 16 A, with compressed air connection

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4L 3SD1C16	Graphite black	1	380.000	6109814

Housing equipped and pre-wired, with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2", with suspension lug, grip hook and four cover plates.

Equipped as follows: 3x single protective contact sockets 16 A/250 V with increased touch protection, pre-wired for an AC current, connection via 1x 3-pin terminal, 1x CEE socket 16 A/415 V, with partition for circuit separation.

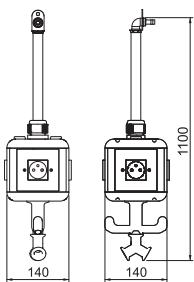




VH - Prewired power supply units IP20

PA

HoverCube VH-4, 4x earthing pin socket, with compressed air connection



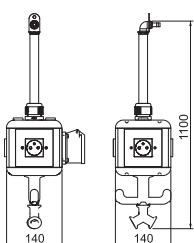
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4L 4SF	Graphite black	1	428.600	6109816

Housing equipped and pre-wired, with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2", with suspension lug, grip hook and four cover plates.

Equipped as follows: 4x single sockets with earthing pin 16 A/250 V with increased touch protection, pre-wired for two AC currents, connection via 2x 3-pin terminals, 1x CEE socket 16 A/415 V, with partition for circuit separation.

HoverCube VH-4, 3x earthing pin socket, 1x CEE 16 A, with compressed air connection

PA



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4L 3SF1C16	Graphite black	1	440.000	6109818

Housing equipped and pre-wired, with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2", with suspension lug, grip hook and four cover plates.

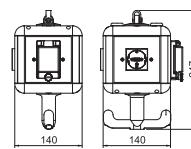
Equipped as follows: 3x single sockets with earthing pin 16 A/250 V with increased touch protection, pre-wired for an AC current, connection via 1x 3-pin terminal, 1x CEE socket 16 A/415 V, with partition for circuit separation.

PA

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 2SD FILS	Graphite black	1	98.000	6109780
VH-4 2SF FILS	Graphite black	1	97.900	6109782

In the case of an overcurrent/error current (16 A/30 mA), the VH-4 HoverCube with decentral protection triggers the FI/LS directly. Switching back on can take place directly on the power supply unit. Equipped as follows: 2x single sockets with earthing pin 16 A/250 V with increased touch protection, pre-wired for an AC current, connection via 1x 3-pin terminal, with partition for circuit separation and an FI/LS switch. One unequipped side with a free panel for individual, construction-side equipment (e.g. blanking plate, cover plate for devices/Modul 45 devices).

HoverCube VH-4, with FI/LS



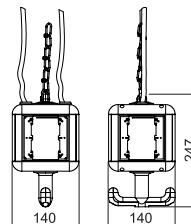
VH - Empty housing and installation accessories IP20

PA

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 LG	Graphite black	1	62.000	6109800

Empty housing with suspension lug and grip hook, for the installation of four electrical resources, with included partition. Without cover plates.

HoverCube VH-4, empty housing

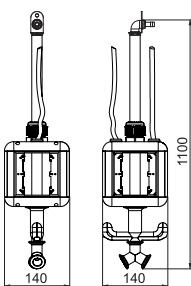




VH - Empty housing and installation accessories IP20

PA

HoverCube VH-4, empty housing, with compressed air connection

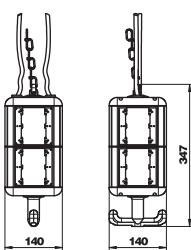


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4L LG	Graphite black	1	343.800	6109810

Empty housing with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2". With suspension lug and grip hook, for the installation of four electrical resources, with included partition. Without cover plates.

HoverCube VH-8, empty housing

PA



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-8 LG	Graphite black	1	88.200	6109821

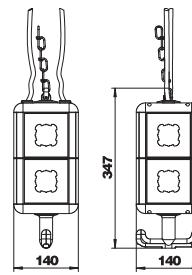
Empty housing with suspension lug and grip hook, for the installation of eight electrical resources, with included partition. Without cover plates.

PA

HoverCube VH-8, empty housing, with cover plates

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-8 LG8P2	Graphite black	1	123.400	6109820

Empty housing with suspension lug and grip hook, for the installation of eight electrical resources, with included partition. With eight cover plates for accessories with concealed support ring or support bracket.

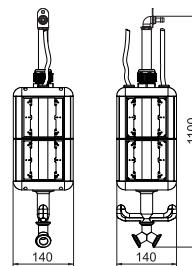


PA

HoverCube VH-8, empty housing, with compressed air connection

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-8L LG	Graphite black	1	300.000	6109825

Empty housing with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2". With suspension lug and grip hook, for the installation of electrical resources, with included partition. Without cover plates.

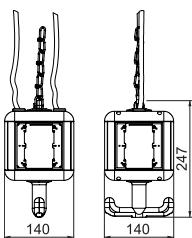




VH - Empty housing and installation accessories IP20, pure white

PA

HoverCube VH-4, empty housing



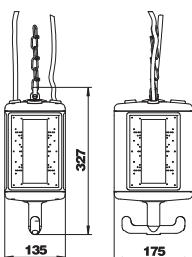
Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-4 LG RW	Pure white	1	72.000	6109801

Empty housing with suspension lug and grip hook, for the installation of four electrical resources, with included partition. Without cover plates.

VHF - Empty housing and installation accessories IP44

PA

HoverCube VHF-8, empty housing



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-8 LG	Graphite black	1	105.000	6109822

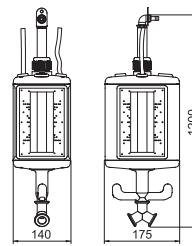
Empty housing with suspension lug and grip hook, for the installation of electrical resources, with included partition. Without cover plates to supply workplaces in wet areas. Protection rating: IP44.

PA

HoverCube VHF-8, empty housing, with compressed air connection

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-8L LG	Graphite black	1	400.000	6109827

Empty housing with 1 m pipe 1/2" and connection for compressed air hose 13 x 3.5 mm and 2-way distributor 1/2". With suspension lug and grip hook, for the installation of electrical resources, with included partition. Without cover plates to supply workplaces in wet areas. Protection rating: IP44.





Modul 45® and standard – suspended power supply units VH / VHF

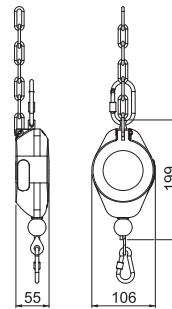
Suspended energy distributor for workplaces and machines in industry, the trades and in training areas. The HoverCubes can be placed freely in the room. They are supplied from the ceiling. Depending on the protection rating, they can be equipped flexibly from power, data and media technology through to work media such as compressed air.



Positioner for VH power supply units

Type	Designation	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-POS	Up to 6 kg load capacity	Orange	1	80.000	6109887

Positioner for variable height adjustment of a VH power supply unit, support load between 0.5 and 6.0 kg, maximum cable draw-out 1.5 m.



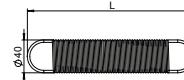
VA 2B

VH/VHF tension spring

Type	Designation	Pack Piece	Weight kg/100 pc.	Item no.
VH-F100VA		1	31.350	6109829

Tension spring for VH/VHF power supply units, with German eyelet.

Fmax.= 100 N
L0 = 200 mm
Ln = 500 mm (for Fmax.)
Material: VA ø 3.0 mm

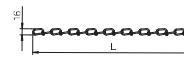


St

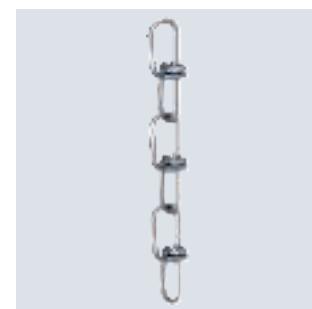
Type	Designation	Pack m	Weight kg/100 m	Item no.
VH-K800	Sold by the metre	1	20.000	6109870

Knotted chain made of pre-copper-plated steel, nickel-plated, according to DIN 5686.
Max. tensile force: 800 N.

Note: Specify the required chain length during ordering.



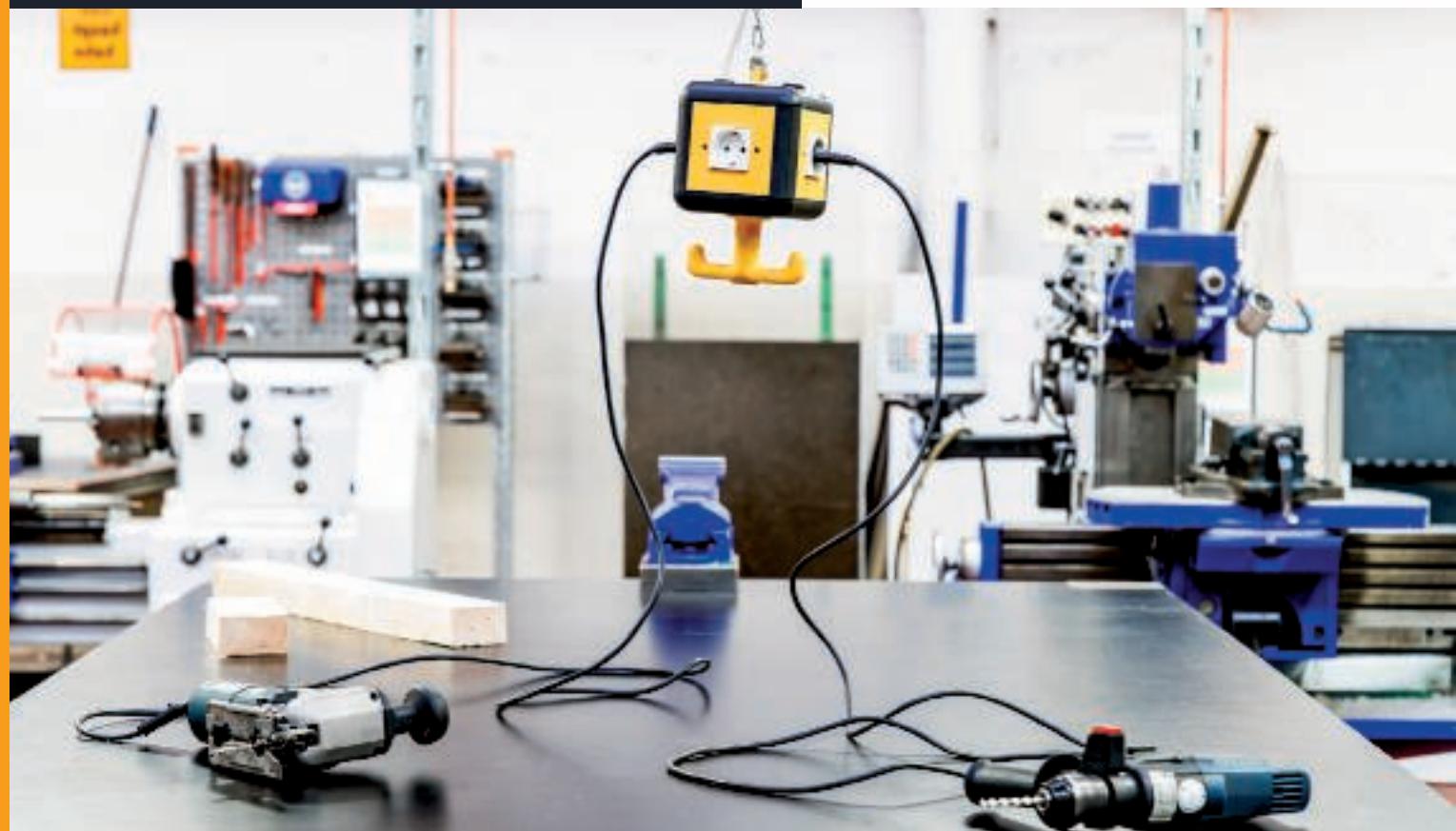
Knotted chain





Modul 45® and standard – suspended power supply units VH / VHF

Suspended energy distributor for workplaces and machines in industry, the trades and in training areas. The HoverCubes can be placed freely in the room. They are supplied from the ceiling. Depending on the protection rating, they can be equipped flexibly from power, data and media technology through to work media such as compressed air.

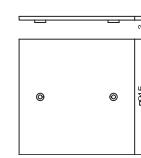


PA

VH cover plate as blanking cover

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P1	Rape yellow	1	2.930	6109842

Cover plate as blanking cover.

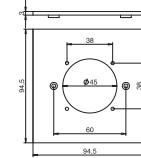


PA

VH cover plate, for 1x extension socket, type ASD

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P7	Rape yellow	1	1.890	6109839

Cover plate with opening for the installation of a socket with 38 x 38 mm fastening system.



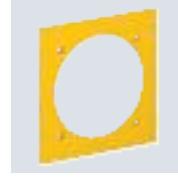
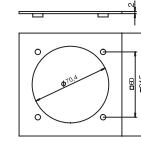
PA

Cover plate VH, for CEE connection unit

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P3	Rape yellow	1	1.830	6109838

Cover plate with a Ø 70 mm opening for the installation of a CEE socket 16/32 A with 60 mm fastening track, including four fastening screws.

Information on equipment:

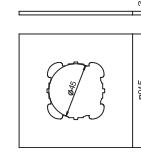
Max. 2 CEE sockets 16/32 A in a power supply unit VH-4
Max. 4 CEE sockets 16/32 A in a power supply unit VH-8

PA

Cover plate VH, for EK and EKR devices

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P2	Rape yellow	1	2.300	6109834

Cover plate with opening Ø 45 mm for the installation of a device with concealed support ring or support clamp.

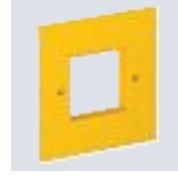
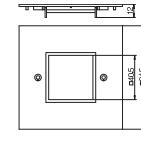


PA

VH cover plate, for Modul 45 devices, single

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH-P4	Rape yellow	1	2.030	6109840

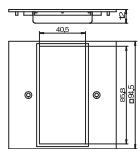
Cover plate to install a single Modul 45 socket.



Cover plates

VH cover plate, for Modul 45 devices, double

PA



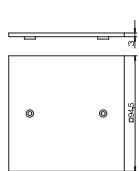
Colour	Pack	Weight	Piece	kg/100 pc.	Item no.
Type VH-P5 Rape yellow	1	1.749			6109836

Cover plate to install a double Modul 45 socket.

Cover plates

VH cover plate as blanking cover

PA

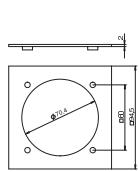


Colour	Pack	Weight	Piece	kg/100 pc.	Item no.
Type VH-P1 RW Pure white	1	3.000			6109843

Cover plate as blanking cover.

Cover plate VH, for CEE connection unit

PA



Colour	Pack	Weight	Piece	kg/100 pc.	Item no.
Type VH-P3 RW Pure white	1	1.830			6109837

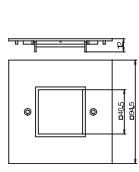
Cover plate with a Ø 70 mm opening for the installation of a CEE socket 16/32 A with 60 mm fastening track, including four fastening screws.

Information on equipment:

Max. 2 CEE sockets 16/32 A in a power supply unit VH-4
Max. 4 CEE sockets 16/32 A in a power supply unit VH-8

VH cover plate, for Modul 45 devices, single

PA



Colour	Pack	Weight	Piece	kg/100 pc.	Item no.
Type VH-P4 RW Pure white	1	2.009			6109841

Cover plate to install a single Modul 45 socket.

VH cover plate, for Modul 45 devices, double

PA



Colour	Pack	Weight	Piece	kg/100 pc.	Item no.
Type VH-P5 RW Pure white	1	1.728			6109835

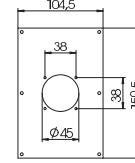
Cover plate to install a double Modul 45 socket.

PVC

VHF cover plate, with fastening system

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P7	Rape yellow	1	6.600	6109878

Cover plate with opening for the installation of a socket with 38 x 38 mm fastening system.

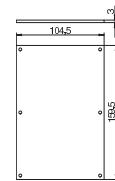


PVC

Cover plate VHF as blanking cover

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P1	Rape yellow	1	7.000	6109868

Cover plate as blanking cover.

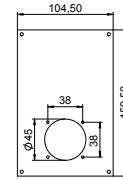


PVC

VHF cover plate, for 1x surface-mounted socket, type ASD

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P12	Rape yellow	1	7.400	6109856

Cover plate with a Ø 45 mm opening for the installation of an extension socket (type ASD-...) with 38 mm fastening track, including 4 screws for fastening the device.

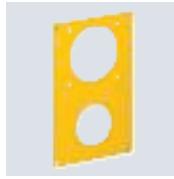
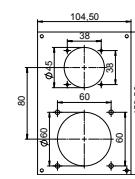


PVC

Cover plate VHF, for 1x surface-mounted socket, type ASD and 1x CEE connection unit

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P13	Rape yellow	1	7.400	6109858

Cover plate with a Ø 45 mm opening for the installation of one extension socket (type ASD-...) with 38 mm fastening track and a Ø 60 mm opening for the installation of one CEE socket 16/32 A with 60 mm fastening track, including 8 screws for fastening the device.

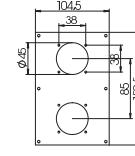


PVC

VHF cover plate, for 2x surface-mounted socket, type ASD

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-P8	Rape yellow	1	5.900	6109879

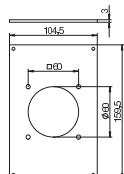
Cover plate with two Ø 45 mm openings for the installation of two extension sockets (type ASD-...) with 38 mm fastening track, including 8 screws for fastening the device.



Cover plates

Cover plate VHF, for CEE connection unit

PVC



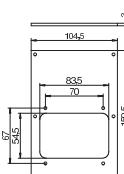
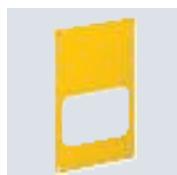
Type	Colour
VHF-P3	Rape yellow

Pack	Weight	Piece	kg/100 pc.	Item no.
1	7.000			6109865

Cover plate with a Ø 70 mm opening for the installation of 1x CEE socket 16/32 A with 60 mm fastening track, including 4 screws for fastening the device.

Cover plate VHF for protective equipment installation

PVC



Type	Colour
VHF-P6	Rape yellow

Pack	Weight	Piece	kg/100 pc.	Item no.
1	4.700			6109867

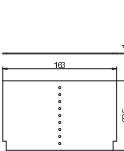
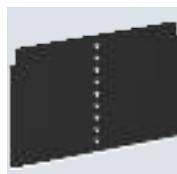
Cover plate with cut out for the installation of a cover above protection unit (type VHF-AE4TE). Maximum equipment corresponds to four units.

Cover plate for the VHF power supply units for the installation of a cover above protection unit (type VHF-AE4TE). Maximum equipment corresponds to four units.

Partitions

Partition VH-4

PVC



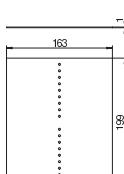
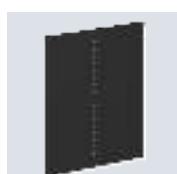
Type	Colour
VH-4 TW	Graphite black

Pack	Weight	Piece	kg/100 pc.	Item no.
1	2.350			6109832

Additional partition wall for reciprocal insulation of three different power circuits and types. Version for VH-4.

Partition VH-8

PVC



Type	Colour
VH-8 TW	Graphite black

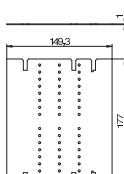
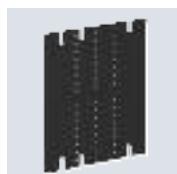
Pack	Weight	Piece	kg/100 pc.	Item no.
1	4.890			6109862

Additional partition wall for reciprocal insulation of three different power circuits and types. Version for VH-8.

Partitions

Partition VHF, with compressed air connection

PVC



Type	Colour
VHF-TW L	Graphite black

Pack	Weight	Piece	kg/100 pc.	Item no.
1	3.900			6109861

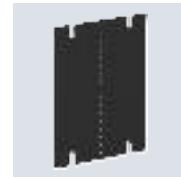
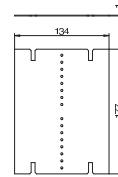
Additional partition wall for reciprocal insulation of three different power circuits and types.

PVC

Partition VHF, without compressed air connection

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VHF-TW	Graphite black	1	3.520	6109860

Additional partition wall for reciprocal insulation of three different power circuits and types.



PA

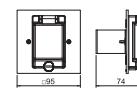
Mounting sets

Mounting set VH4

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VH MS FILS	Yellow	1	10.500	6109788
VH MS FILS RW	Pure white	1	10.500	6109789

Mounting kit for the installation of series-mounted devices up to 2 part units, e.g. of an FI/LS switch in the freely terminable HoverCube VH4/VH8.

Mounting of the FI/LS switch is possible at a later time, irrespective of the system.



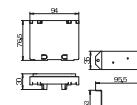
Support with terminal strip

VHF protective unit construction, cover and support clamp

Type	Pack Piece	Weight kg/100 pc.	Item no.
VHF-AE4TE	1	12.800	6109850

Cover and support clamp for the installation of protective equipment such as miniature circuit breakers or FI protection switches to max. four units.

Note: Use only in conjunction with the supports VHF-T1 or VHF-T2.



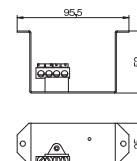
St

VHF protective unit construction, support with PE terminal strip

Type	Pack Piece	Weight kg/100 pc.	Item no.
VHF-T1	1	6.730	6109852

Support with PE terminal strip for installation of FI protection switches, consisting of:

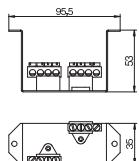
- Base element with hat rail 35 mm and PE terminal strip 4 x 10 mm²
- Fastening material



Support with terminal strip

St

VHF protective unit construction, support with N + PE terminal strip



Type

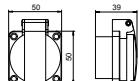
VHF-T2

Pack	Weight	
Piece	kg/100 pc.	Item no.
1	8.380	6109854

Support with N and PE terminal strip for installation of miniature circuit-breakers, consisting of:
 - Base element with hat rail 35 mm, N terminal strip 4 x 10 mm² and PE terminal strip 4 x 10 mm²
 - Fastening material

Extension sockets with hinged cover

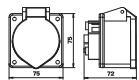
Surface-mounted socket 0° with hinged cover, protective contact, single



Colour		Pack	Weight	
Type		Piece	kg/100 pc.	Item no.
ASD-D0 SW	Black	1	4.804	6109873

Protective contact extension socket 0° with hinged cover, with screwless terminals, 2-pin, 16 A, 250 V~, with connection terminals to IEC 60884-1. Protection rating: IP44.

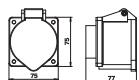
CEE connection unit, 16 A



Type		Pack	Weight	
CEE-16A		Piece	kg/100 pc.	Item no.
		1	19.100	6109874

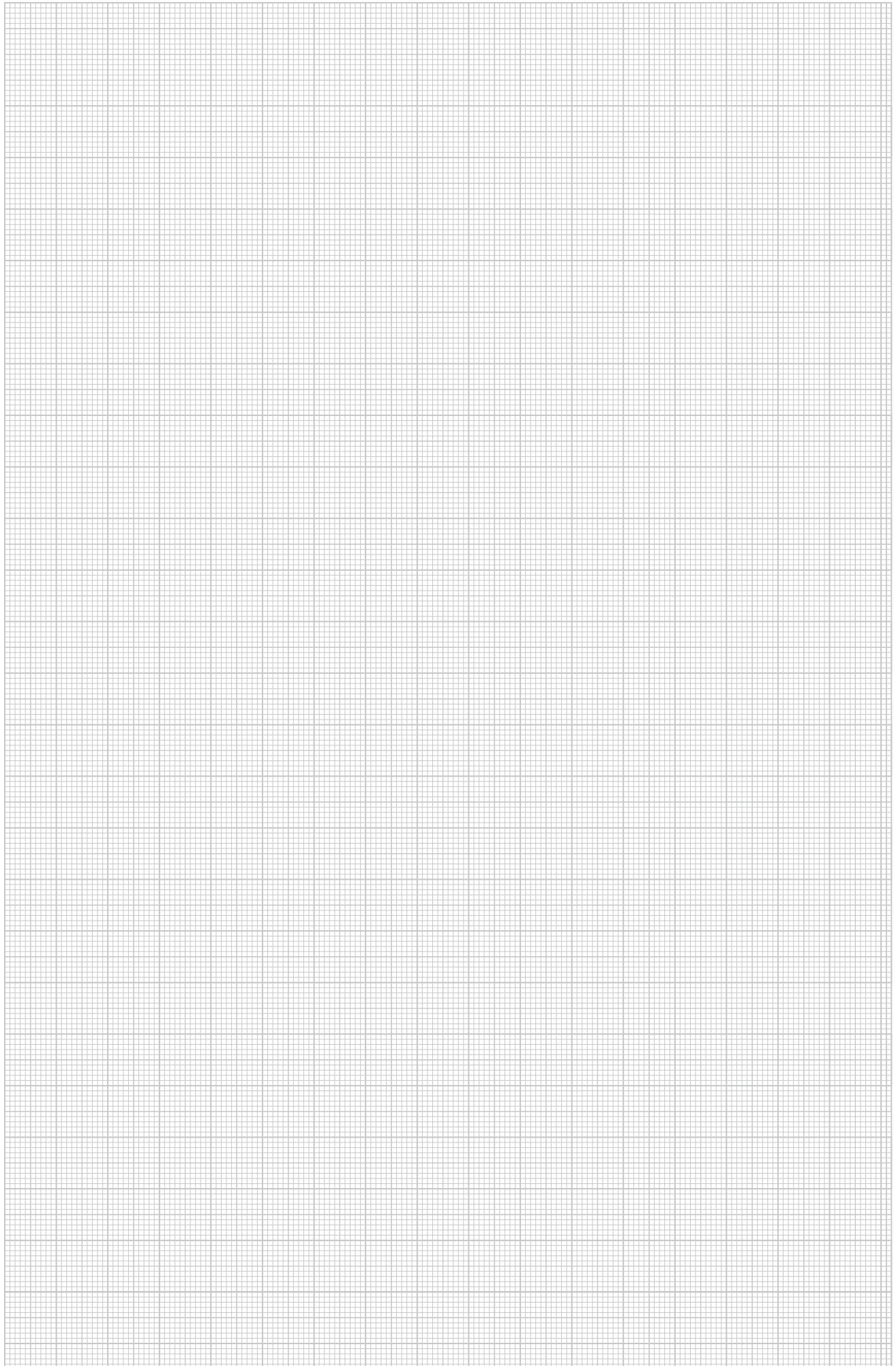
CEE socket with 60 mm fastening track, 3-pin + N + PE, 400 V, 16 A, 6 h.

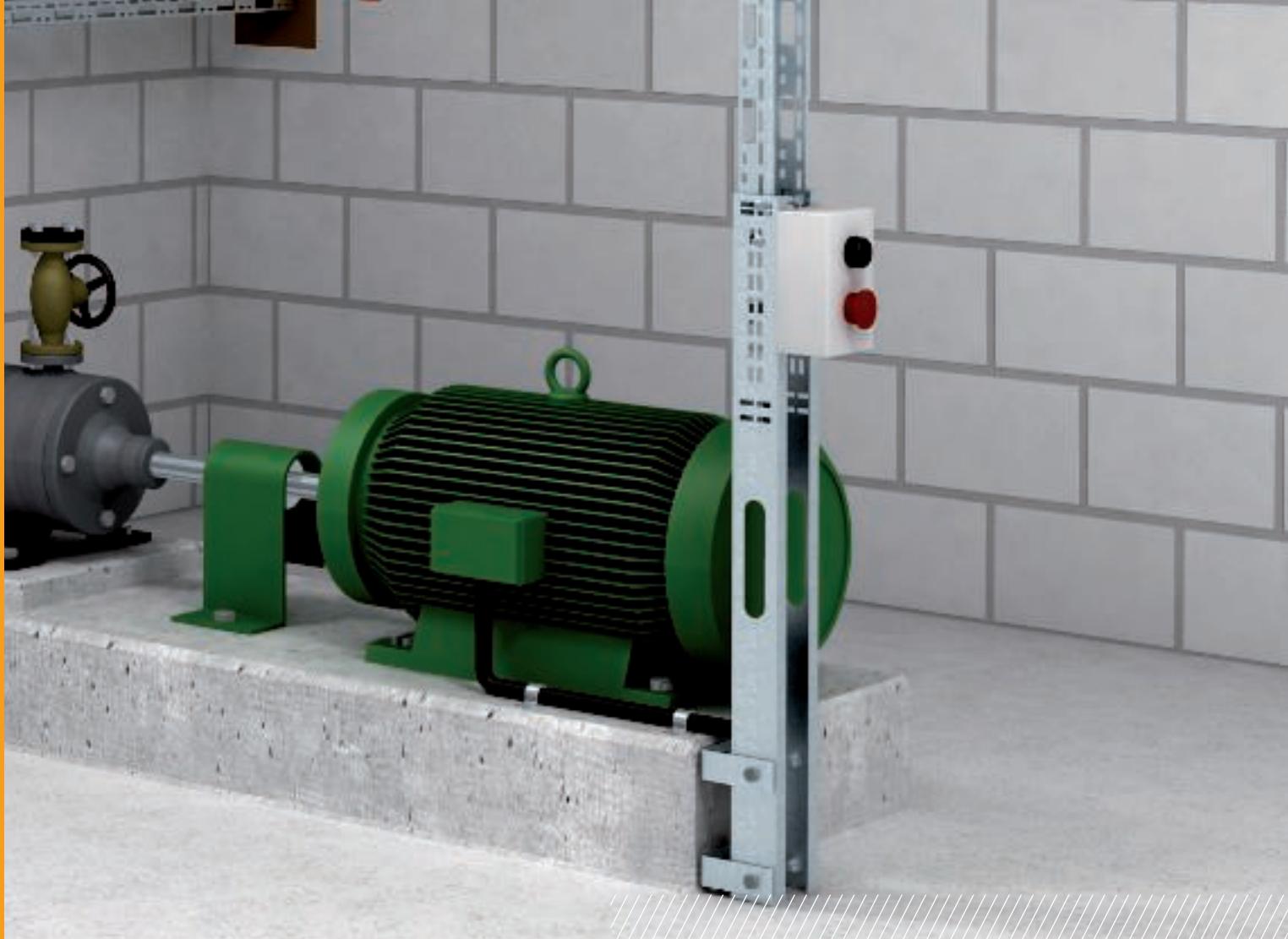
CEE connection unit, 32 A



Type		Pack	Weight	
CEE-32A		Piece	kg/100 pc.	Item no.
		1	20.400	6109876

CEE socket with 60 mm fastening track, 3-pin + N + PE, 400 V, 32 A, 6 h.





Motor connection column

Electrical drives, such as motors, etc., are connected using the motor connection column. Thus the motor connection column, together with the modular system and individually combinable range of accessories, is the universal solution to any task.

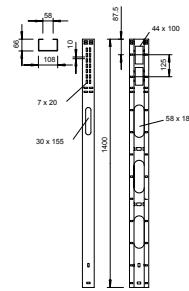
Vertical motor connection column with special perforation for starting-up and supplying electrical machines and drives.



St FT

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MAS 140 10 FT	1400	1	505.000	6356311

Vertical motor connection column to supply electrical devices.

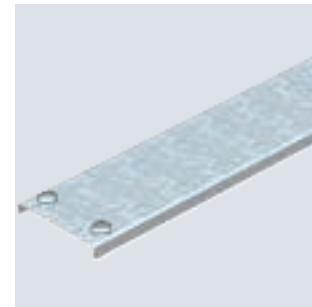
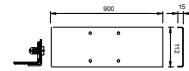
Motor connection column**Accessories, motor connection columns**

St FT

Cover for motor connection column

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
MASD 90 FT	900	1	160.000	6356915

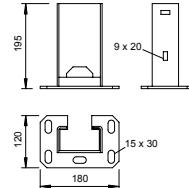
Cover with turn buckle for motor connection column.



St FT

Type		Pack Piece	Weight kg/100 pc.	Item no.
SF 140 11 FT		1	200.000	6356397

Column foot for fastening of the motor connection column.

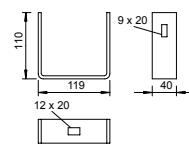


St FT

Mounting bracket

Type		Pack Piece	Weight kg/100 pc.	Item no.
BF 140 10 FT		10	50.000	6356362

Mounting bracket for side fastening of motor connection columns to bases or on the wall.

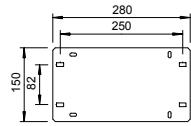
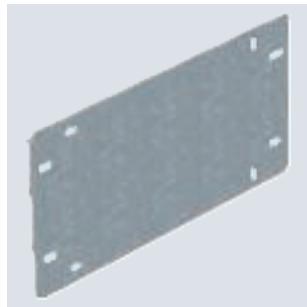




Accessories, motor connection columns

St FT

Device plate GP 15

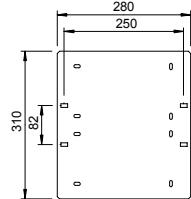
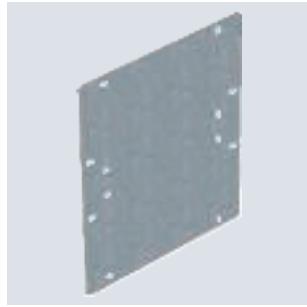


Type	Pack	Weight	Piece	kg/100 pc.	Item no.
GP 15 28 FT	1	101.000			6357008

Mounting plate for fastening to motor connection column, type MAS 140/10.

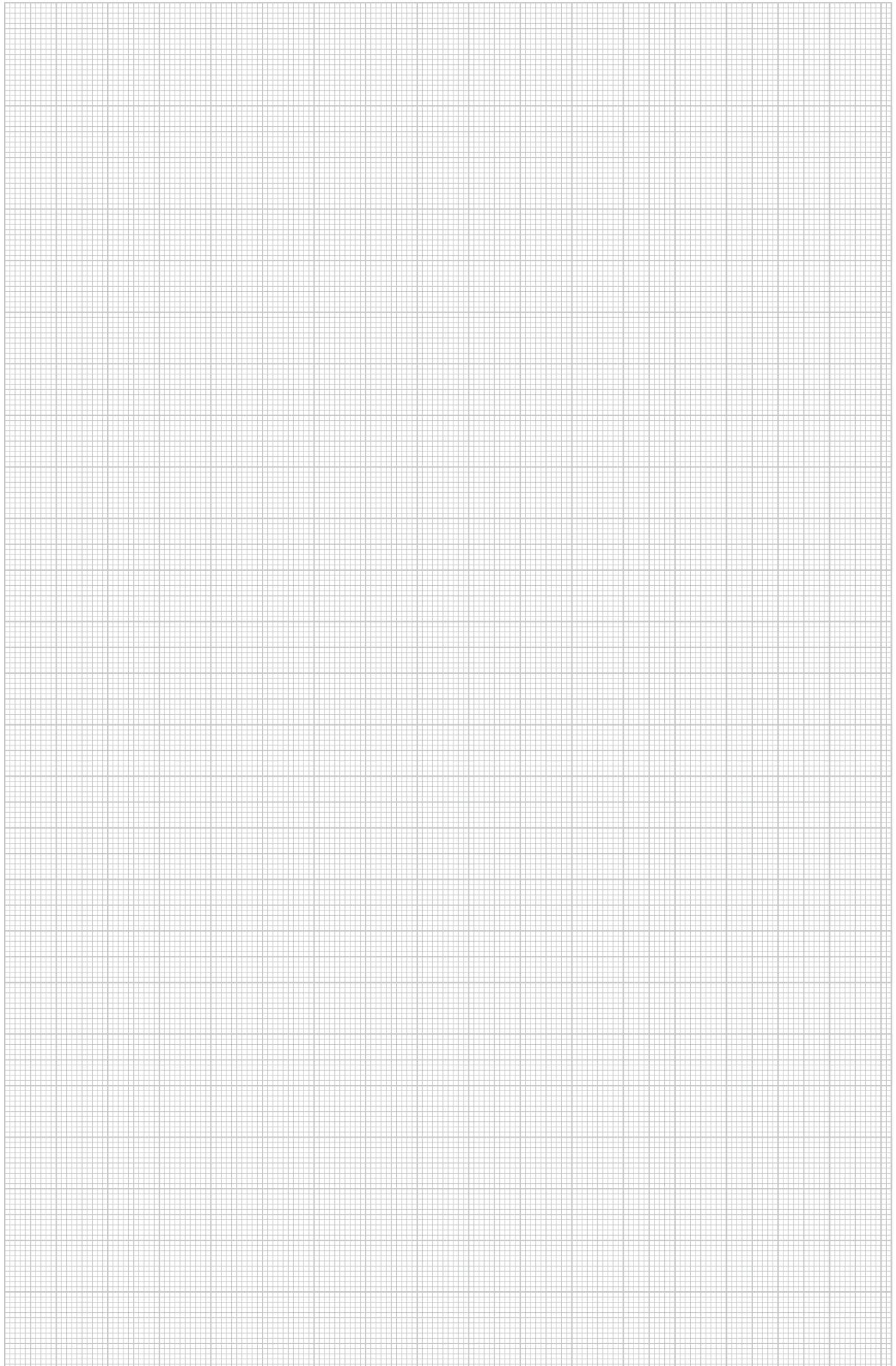
Device plate GP 31

St FT



Type	Pack	Weight	Piece	kg/100 pc.	Item no.
GP 31 28 FT	1	210.000			6357016

Mounting plate for fastening to motor connection column, type MAS 140/10.



Distributors

Distributors

Distributors



Small distributors

108



Accessories, small distributors

114



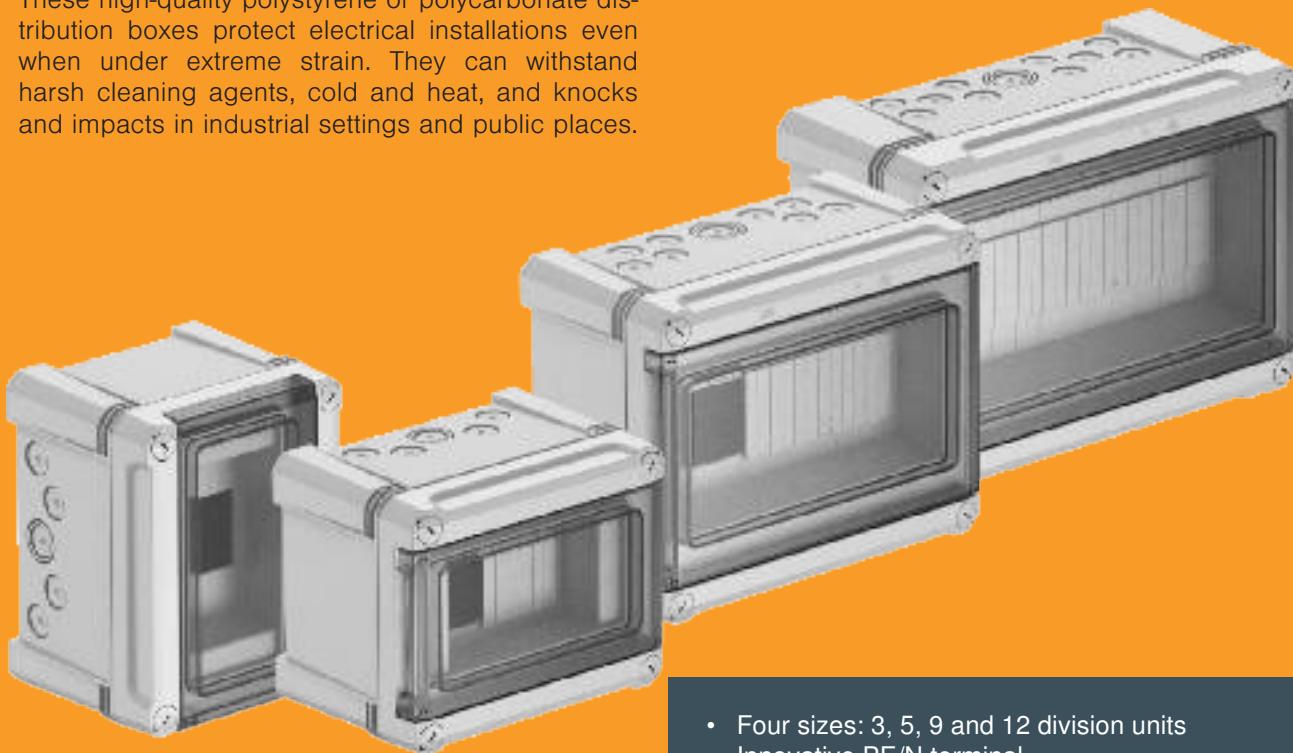
Hat profile and support rails

116



SDB distribution box series

These high-quality polystyrene or polycarbonate distribution boxes protect electrical installations even when under extreme strain. They can withstand harsh cleaning agents, cold and heat, and knocks and impacts in industrial settings and public places.



- Four sizes: 3, 5, 9 and 12 division units
- Innovative PE/N terminal
- Flexible fastening
- Adhesive labelling sheets



Distribution box, 3 division units, with screwless terminal

Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 03 PC	Connector	Light grey	150x190x125	1	75.540	2008840

Surface-mounted distribution box, with protective insulation for max. 3 division units. There are 3 break-out openings (2x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and exterior mounting
VDE-tested to DIN EN 61439

Accessories:

- Terminal strip set consisting of: One PE/N terminal (1x25 mm² and 1x16 mm² screw terminal points, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
- Self-adhesive pictograms for installation labelling
- Two elastic cable entries Ø20 mm for cable diameters 0–17 mm
- One elastic cable entry Ø25 mm for cable diameter 0–22 mm
- Two stainless steel external fastenings
- Cover strip for closing off unused separation units



Distribution box, 5 division units, with screwless terminal

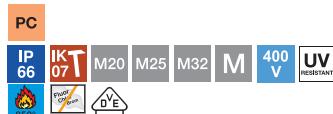
Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 05 PC	Connector	Light grey	190x150x125	1	76.040	2008844

Surface-mounted distribution box, with protective insulation for max. 5 division units. There are 5 break-out openings (4x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and exterior mounting
VDE-tested to DIN EN 61439

Accessories:

- Terminal strip set consisting of: One PE/N terminal (1x25 mm² and 1x16 mm² screw terminal points, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
- Self-adhesive pictograms for installation labelling
- Four elastic cable entries Ø20 mm for cable diameters 0–17 mm
- One elastic cable entry Ø25 mm for cable diameter 0–22 mm
- Two stainless steel external fastenings
- Cover strip for closing off unused separation units



Distribution box, 9 division units, with screwless terminal

Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 09 PC	Connector	Light grey	240x191x125	1	103.840	2008848

Surface-mounted distribution box, with protective insulation for max. 9 division units. There are 9 break-out openings (8x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and exterior mounting
VDE-tested to DIN EN 61439

Accessories:

- Terminal strip set consisting of: One PE/N terminal (1x25 mm² and 1x16 mm² screw terminal points, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
- Self-adhesive pictograms for installation labelling
- Six elastic cable entries Ø20 mm for cable diameters 0–17 mm
- One elastic cable entry Ø25 mm for cable diameter 0–22 mm
- One elastic cable entry Ø32 mm for cable diameter 0–28 mm
- Two stainless steel external fastenings
- Cover strip for closing off unused separation units



Distribution box, 12 division units, with screw-less terminal



PC	IP 66	IK 06 T	M20	M25	M32	M	400 V	UV resistant
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Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 12 PC	Connector	Light grey	286x202x125	1	150.000	2008852

Surface-mounted distribution box, with protective insulation for max. 12 division units. There are 11 break-out openings (10x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and exterior mounting
VDE-tested to DIN EN 61439

Accessories:

- Terminal strip set consisting of: One PE/N terminal (1x25 mm² and 1x16 mm² screw terminal points, 2x4 mm² and 12x2.5 mm² screwless terminals), mini hat profile rail, mounting instructions and fastening set
- Self-adhesive pictograms for installation labelling
- Eight elastic cable entries Ø20 mm for cable diameters 0–17 mm
- One elastic cable entry Ø25 mm for cable diameter 0–22 mm
- One elastic cable entry Ø32 mm for cable diameter 0–28 mm
- Two stainless steel external fastenings
- Cover strip for closing off unused separation units

Distribution box, 3 division units, with screw terminal



PS	IP 66	IK 06 T	M20	M25	M	400 V	UV resistant
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Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 03 PS	Connector	Light grey	150x190x125	1	81.000	2008800

Surface-mounted distribution box, with protective insulation for max. 3 division units. There are 3 break-out openings (2x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and protected exterior mounting
Accessories:

- Terminal strip set consisting of: One PE/N terminals with 4x 16 mm² screw terminal points, mini hat profile rail, mounting instructions and fastening set
- Self-adhesive pictograms for installation labelling and labelling of the connected consumers
- Two elastic cable entries Ø20 mm for cable diameters 0–17 mm
- One elastic cable entry Ø25 mm for cable diameter 0–22 mm

Distribution box, 5 division units, with screw terminal



PS	IP 66	IK 06 T	M20	M25	M	400 V	UV resistant
----	-------	---------	-----	-----	---	-------	-----------------

Type	Terminals	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 05 PS	Connector	Light grey	190x150x125	1	81.500	2008804

Surface-mounted distribution box, with protective insulation for max. 5 division units. There are 5 break-out openings (4x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and protected exterior mounting
Accessories:

- Terminal strip set consisting of: One PE/N terminals with 4x 16 mm² screw terminal points, mini hat profile rail, mounting instructions and fastening set
- Self-adhesive pictograms for installation labelling and labelling of the connected consumers
- Four elastic cable entries Ø20 mm for cable diameters 0–17 mm
- One elastic cable entry Ø25 mm for cable diameter 0–22 mm



Distribution box, 9 division units, with screw terminal

Type	Terminals	Colour	Dimension LxWxH mm	Pack		Weight kg/100 pc.	Item no.
				Piece	kg/100 pc.		
SDB 09 PS	Connector	Light grey	240x191x125	1	110.000	2008808	

Surface-mounted distribution box, with protective insulation for max. 9 division units. There are 9 break-out openings (8x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and protected exterior mounting

Accessories:

- Terminal strip set consisting of: Two PE/N terminals each with 4x 16 mm² screw terminal points, mini hat profile rail, mounting instructions and fastening set
- Self-adhesive pictograms for installation labelling and labelling of the connected consumers
- Six elastic cable entries Ø20 mm for cable diameters 0–17 mm
- One elastic cable entry Ø25 mm for cable diameter 0–22 mm
- One elastic cable entry Ø32 mm for cable diameter 0–28 mm



Distribution box, 12 division units, with screw terminal

Type	Terminals	Colour	Dimension LxWxH mm	Pack		Weight kg/100 pc.	Item no.
				Piece	kg/100 pc.		
SDB 12 PS	Connector	Light grey	286x202x125	1	141.000	2008812	

Surface-mounted distribution box, with protective insulation for max. 12 division units. There are 11 break-out openings (10x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

Suitable for interior and protected exterior mounting

Accessories:

- Terminal strip set consisting of: Three PE/N terminals each with 4x 16 mm² screw terminal points, mini hat profile rail, mounting instructions and fastening set
- Self-adhesive pictograms for installation labelling and labelling of the connected consumers
- Eight elastic cable entries Ø20 mm for cable diameters 0–17 mm
- One elastic cable entry Ø25 mm for cable diameter 0–22 mm
- One elastic cable entry Ø32 mm for cable diameter 0–28 mm



Distribution box, 3 division units, empty

Type	Colour	Dimension LxWxH mm	Pack		Weight kg/100 pc.	Item no.
			Piece	kg/100 pc.		
SDB 03L PC	Light grey	150x190x125	1	78.000	2008860	
SDB 03L PS	Light grey	150x190x125	1	69.000	2008820	

Surface-mounted distribution box, with protective insulation for max. 3 division units. There are 3 break-out openings (2x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

The PC small distributors are suitable for mounting for interior and exterior use.



Distribution box, 5 division units, empty

PS	PC	IP 66	IKT 06	M20	M25	M	400 V	650°

Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 05L PS	Light grey	190x150x125	1	69.500	2008824
SDB 05L PC	Light grey	190x150x125	1	78.500	2008864

Surface-mounted distribution box, with protective insulation for max. 5 division units. There are 5 break-out openings (4x Ø20 and 1x Ø20/25) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

The PS small distributors are suitable for mounting in interiors and in protected exteriors.

Distribution box, 9 division units, empty

PS	PC	IP 66	IKT 06	M20	M25	M32	M	400 V	650°

Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 09L PS	Light grey	240x191x125	1	96.000	2008828
SDB 09L PC	Light grey	240x191x125	1	108.000	2008868

Surface-mounted distribution box, with protective insulation for max. 9 division units. There are 9 break-out openings (8x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

The PS small distributors are suitable for mounting in interiors and in protected exteriors.

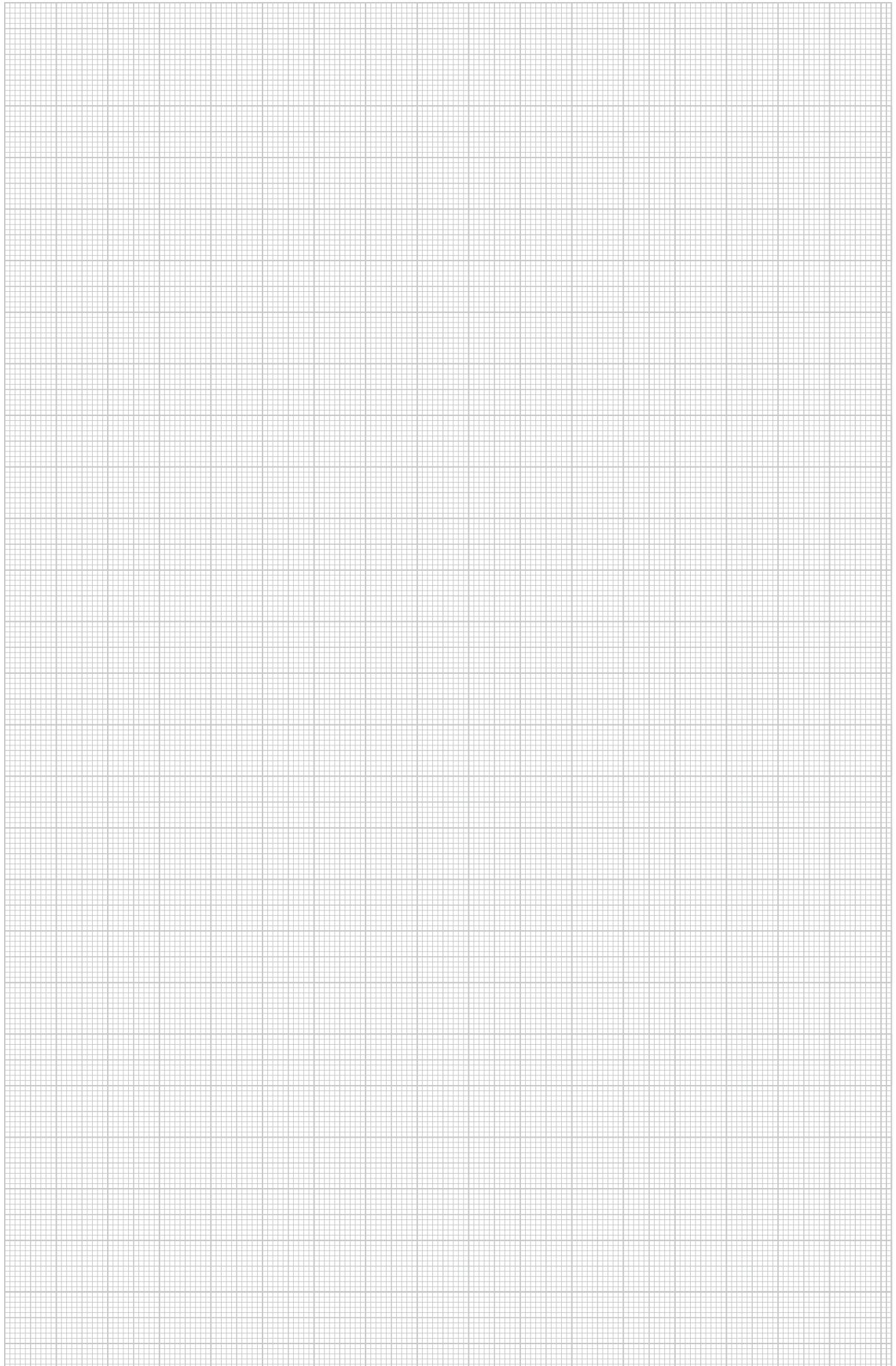
Distribution box, 12 division units, empty

PS	PC	IP 66	IKT 06	M20	M25	M32	M	400 V	650°

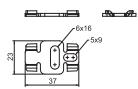
Type	Colour	Dimension LxWxH mm	Pack Piece	Weight kg/100 pc.	Item no.
SDB 12L PS	Light grey	286x202x125	1	120.000	2008832
SDB 12L PC	Light grey	286x202x125	1	134.000	2008872

Surface-mounted distribution box, with protective insulation for max. 12 division units. There are 11 break-out openings (10x Ø20 and 1x Ø20/25/32) on both the upper and lower sides incl. pre-mounted 35 mm hat profile support rail. The four screw cover caps supplied prevent unwanted "voltage carry over".

The PS small distributors are suitable for mounting in interiors and in protected exteriors.



External fastening or connection

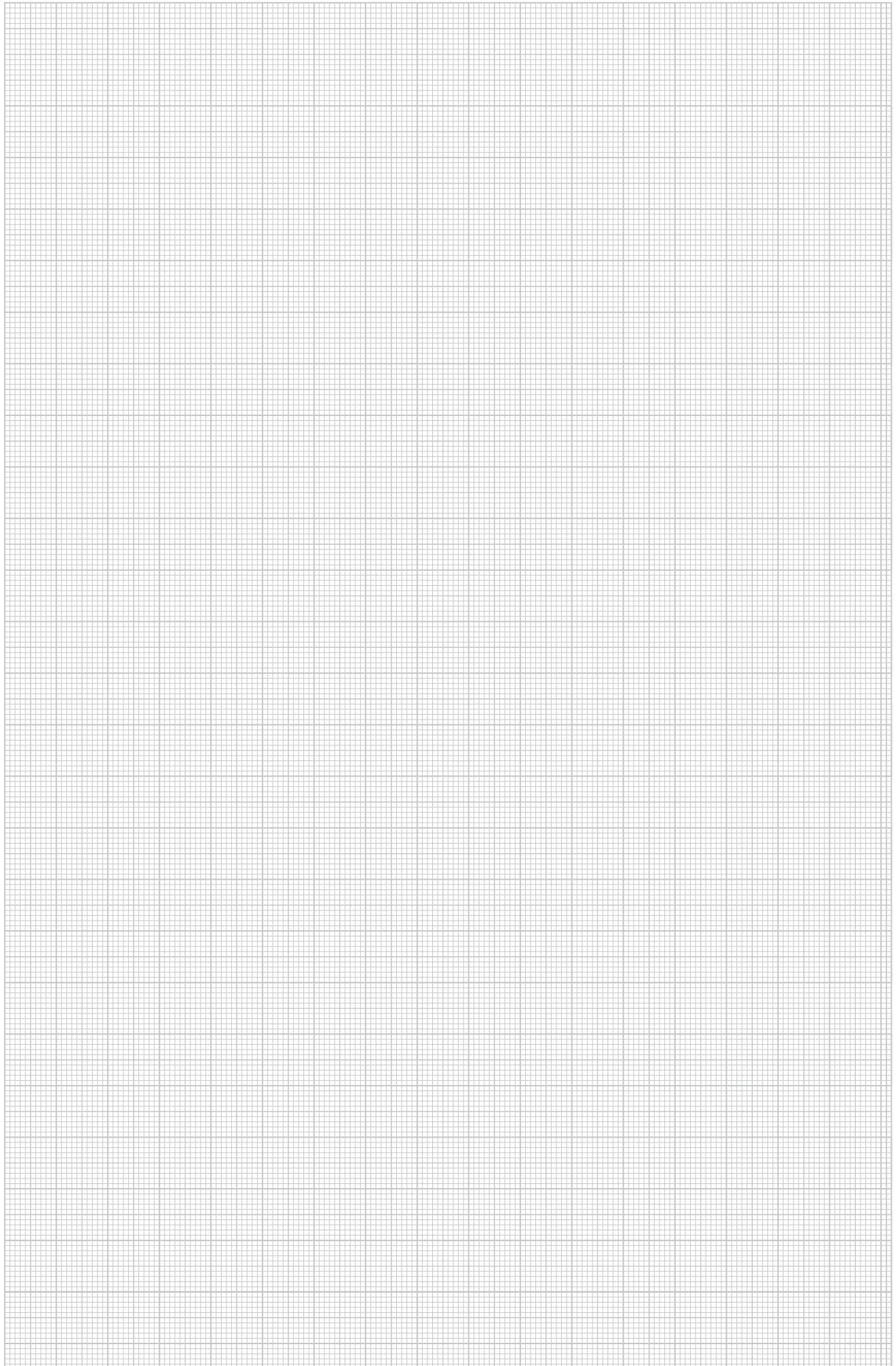


A2	2B
IP 67	IK 09
UV RESISTANT	FRUIT & VINE
650°	EN 11

Type	Pack	Weight	Item no.
AV-S	20	kg/100 pc.	2007990

The convenient external fastening/connection means the cable boxes and distribution boxes of the S and SDB series can be fastened easily to a wall. Because they fasten outside the cable box, the possibility of voltage carry over is ruled out.
These metal connectors can also be used for lining up several boxes together.







Hat profile rails

The OBO hat profile/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 busbar (PE function), however not as a PEN function!

Perforated

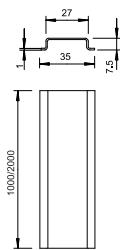


Unperforated



St BK
35

Hat profile rail, unperforated

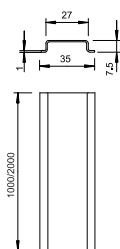


Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 2M BK	Unperforated	1	2000	50	36.040	1115618

St FS
35

Hat profile rail, unperforated

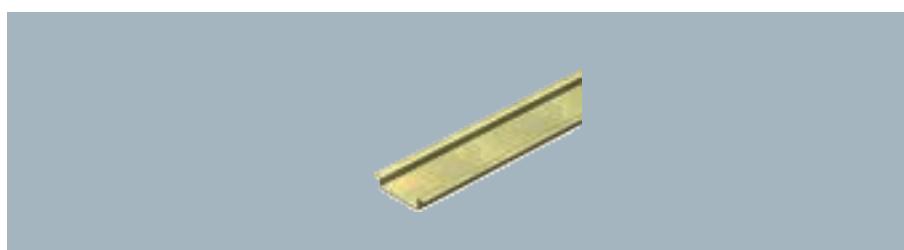
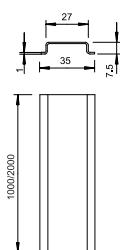


Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 1M FS	Unperforated	1	1000	25	36.020	1115677
2069 2M FS	Unperforated	1	2000	50	36.033	1115626

St GTP
35

Hat profile rail, unperforated

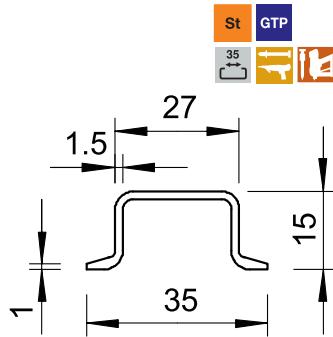
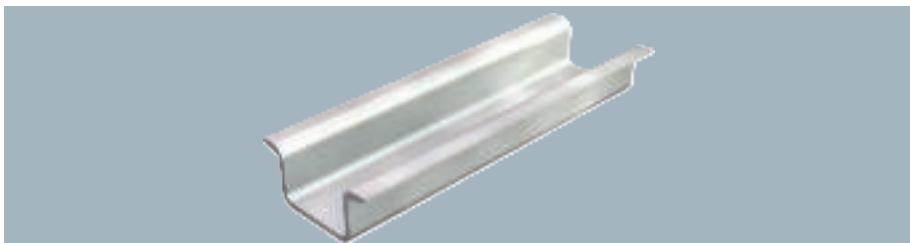


Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 1M GTP	Unperforated	1	1000	25	36.020	1115685
2069 2M GTP	Unperforated	1	2000	50	36.040	1115650

Hat profile rails

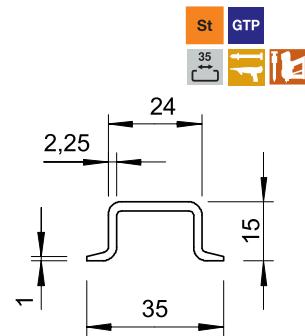
Hat profile rail, unperforated



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	1115421

Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

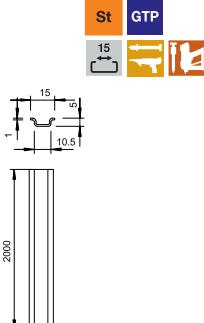
Hat profile rail, unperforated



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	1115553

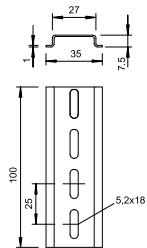
Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).

Hat profile rail unperforated



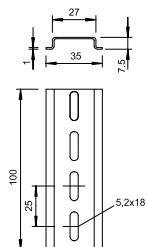
Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
46277 GTP	Unperforated	1	2000	50	12.400	1115332
46277 GTPL	Perforated	1	2000	50	12.400	1115359

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



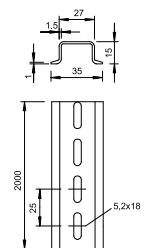
Hat profile rail 35 x 7.5 mm to DIN EN 60715 (formerly DIN EN 50022).

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 2M GTP	Perforated	1	2000	50	33.280	1115669



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

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 L 2M FS	Perforated	1	2000	50	33.280	1115804



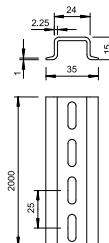
Hat profile rail 35 x 15 mm similar to DIN EN 60715 (formerly DIN EN 50022), but with material thickness 1.5 mm.

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 1.5 FS	Perforated	1.5	2000	20	66.000	1115460
2069 15 1.5 GTP	Perforated	1.5	2000	20	66.000	1115456

Hat profile rail, perforated

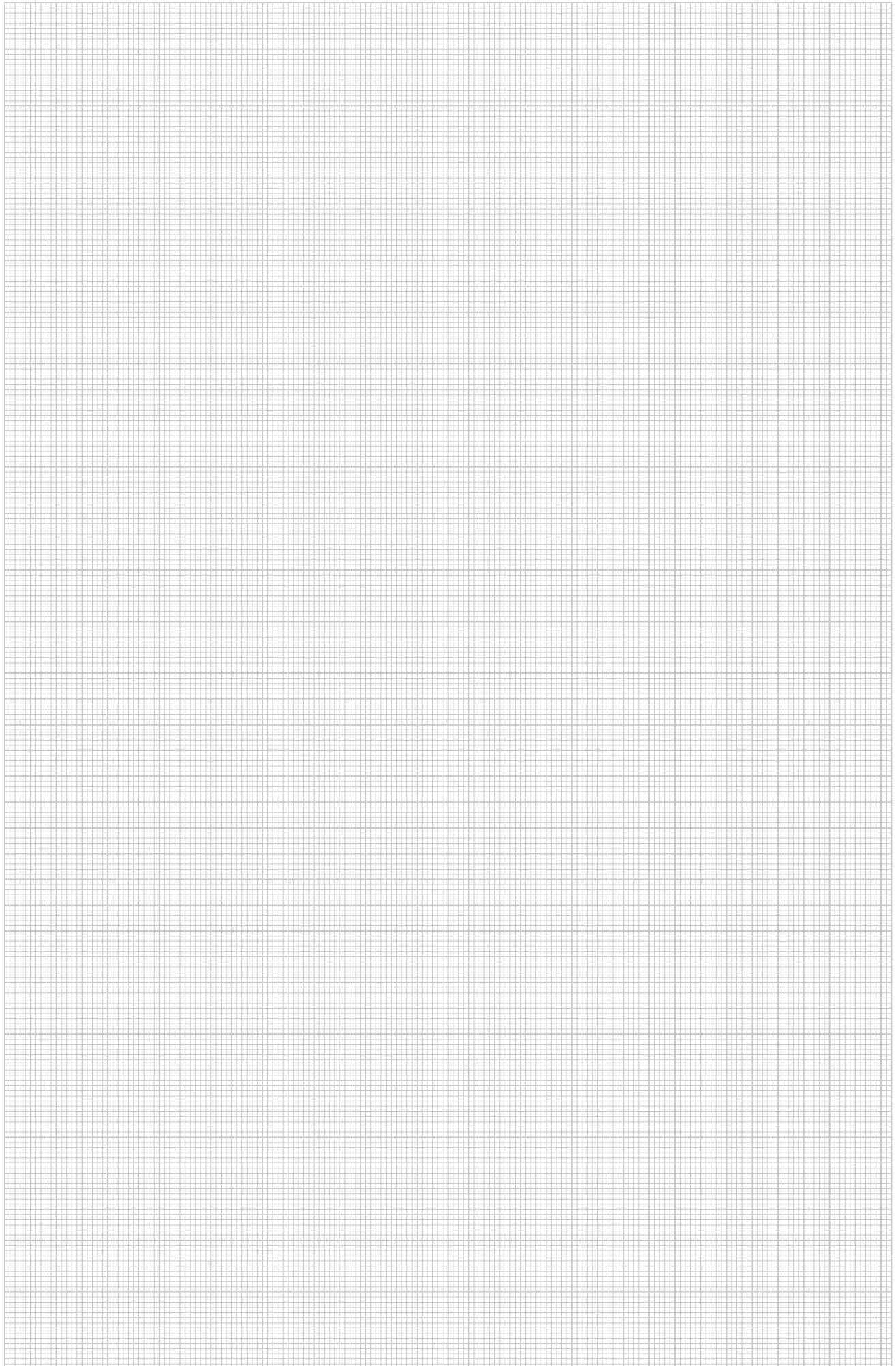


St GTP
35



Hat profile rail 35 x 15 mm to DIN EN 60715 (formerly DIN EN 50022).

Type	Version	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item no.
2069 15 2.2 GTPL	Perforated	2.25	2000	20	97.000	1115596

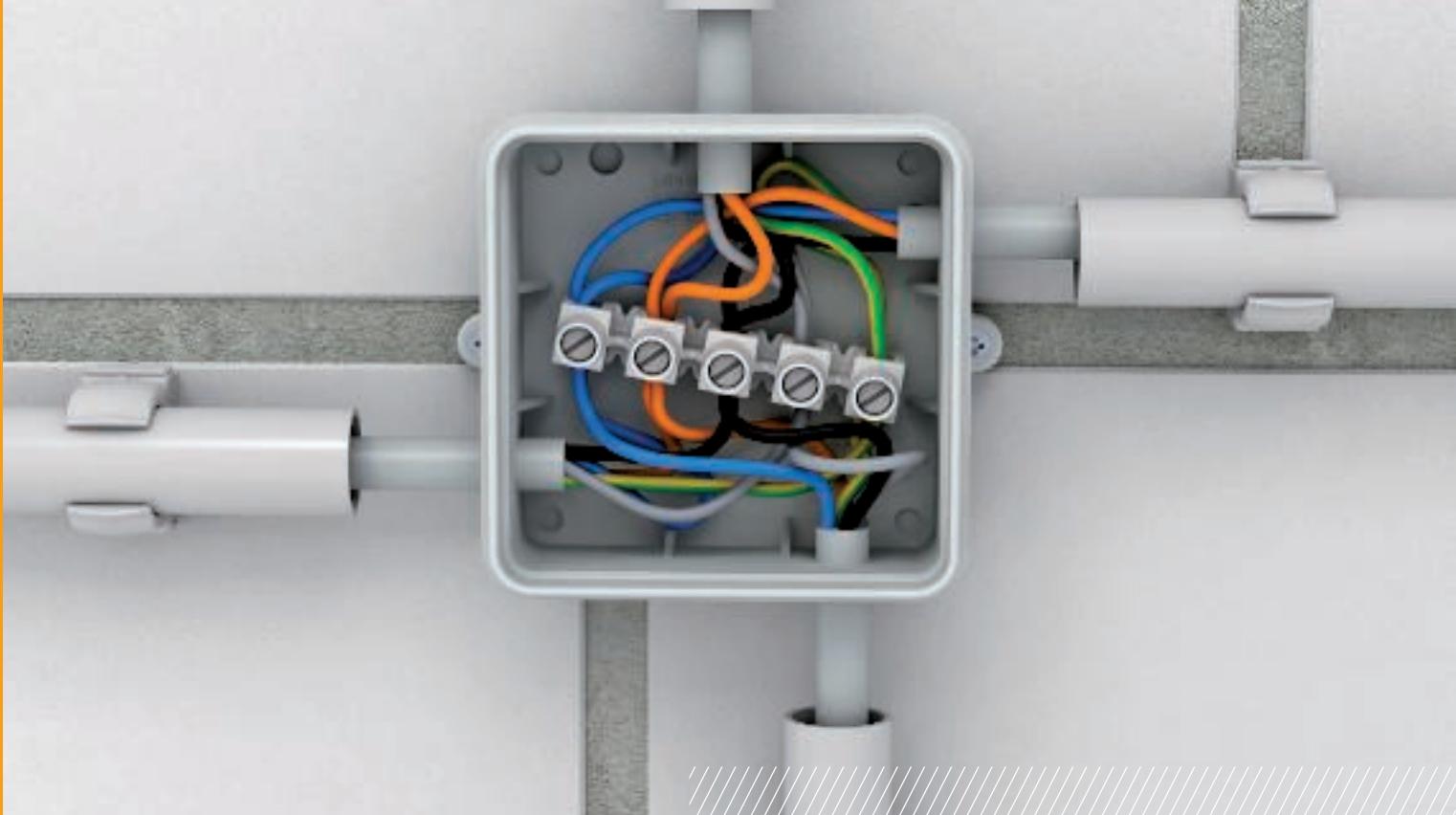


Junction boxes

Junction boxes

Junction boxes

	Junction boxes, A series	124
	T series junction boxes	130
	X series junction boxes	148
	Junction boxes Firebox	156
	Mx series junction boxes	164



Junction boxes A series

Classic and still youthful: The well-known junction boxes of the A series have had a makeover. Halogen-free thermoplastic is just as much of a hallmark of the A series as a tight-fitting clamshell and pre-marked cable entries. A protection rating of IP55 and practical external fastenings round off the profile of the classic item.

- Halogen-free thermoplastic
- Sturdy external fastenings
- Quick mounting with snug-fitting clamshell
- Suitable for wet rooms, IP55

Pre-marked cable entry

The pre-marked cable entries can be opened with a knife or using the cut-out tool supplied.



Junction box A 6

IP 55 2,5 mm² 400 V 10 IK 14 650° Flame proof IK 07 DKE



Type	A 6	A 6 HF RW
Colour	Light grey	Pure white
Dimension LxWxH mm	80x43x36	80x43x36
Clear internal dimensions mm	69x32x30	69x32x30
Pack Piece	10	10
Weight kg/100 pc.	2.560	2.560
Item no.	2000001	2000005

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 6 entries for cable diameter 5–14 mm
4 entries for cable diameter 5–9 mm.
Clamshell.
Dimensions: 80 x 43 x 36 mm
Clear internal dimensions: 69 x 32 x 30 mm
1 cut-out tool for every 10 boxes

Junction box A 8

IP 55 2,5 mm² 400 V 7 IK 14 650° Flame proof IK 07 DKE



Type	A 8	A 8 HF RW
Accessories	without terminal strip	without terminal strip
Colour	Light grey	Pure white
Dimension LxWxH mm	75x75x36,7	75x75x36,7
Clear internal dimensions mm	65x65x32	65x65x32
Pack Piece	10	10
Weight kg/100 pc.	3.649	5.140
Item no.	2000016	2000075

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 7 entries for cable diameters of 5–14 mm.
Clamshell.
Dimensions: 75 x 75 x 36.2 mm
Clear internal dimensions: 65 x 65 x 32 mm
1 cut-out tool for every 10 boxes

Junction box A 11

IP 55 | 2,5 mm² | 400 V | 12 | IEC | Flame retardant | IK 07 | DKE



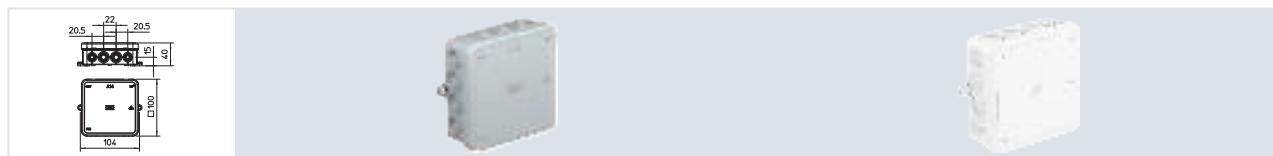
Type	A 11	A 11 HF RW
Accessories	without terminal strip	without terminal strip
Colour	Light grey	Pure white
Dimension LxWxH mm	85x85x40	85x85x40
Clear internal dimensions mm	75x75x35	75x75x35
Pack Piece	10	10
Weight kg/100 pc.	6.200	6.200
Item no.	2000342	2000180

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 12 entries for cable diameter 5–14 mm.
Clamshell.
Dimensions: 85 x 85 x 40 mm
Clear internal dimensions: 75 x 75 x 35 mm
1 cut-out tool for every 10 boxes

Junction box A 14

IP 55 | 2,5 mm² | 400 V | IEC | Flame retardant | IK 07 | DKE



Type	A 14	A 14 HF RW
Accessories	without terminal strip	without terminal strip
Colour	Light grey	Pure white
Dimension LxWxH mm	100x100x40	100x100x40
Clear internal dimensions mm	90x90x35	90x90x35
Pack Piece	10	10
Weight kg/100 pc.	5.855	5.855
Item no.	2000378	2000390

PE Polyethylene

Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 8 entries for cable diameter 5–14 mm
8 entries for cable diameter 5–11 mm.
Clamshell.
Dimensions: 100 x 100 x 40 mm
Clear internal dimensions: 90 x 90 x 35 mm
1 cut-out tool for every 10 boxes

Junction box A 18



Type	A 18	A 18 HF RW
Accessories	without terminal strip	without terminal strip
Colour	Light grey	Pure white
Dimension LxWxH mm	125x100x40	125x100x40
Clear internal dimensions mm	115x90x35	115x90x35
Pack Piece	10	10
Weight kg/100 pc.	6.957	6.957
Item no.	2000410	2000422

PE Polyethylene

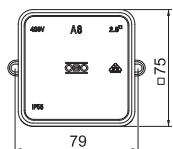
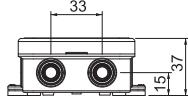
Protection rating IP55, rated voltage 400 V, nominal cross-section 2.5 ÷ mm², 10 entries for cable diameter 5–14 mm
8 entries for cable diameter 5–11 mm.

Clamshell.

Dimensions: 125 x 100 x 40 mm

Clear internal dimensions: 115 x 90 x 35 mm

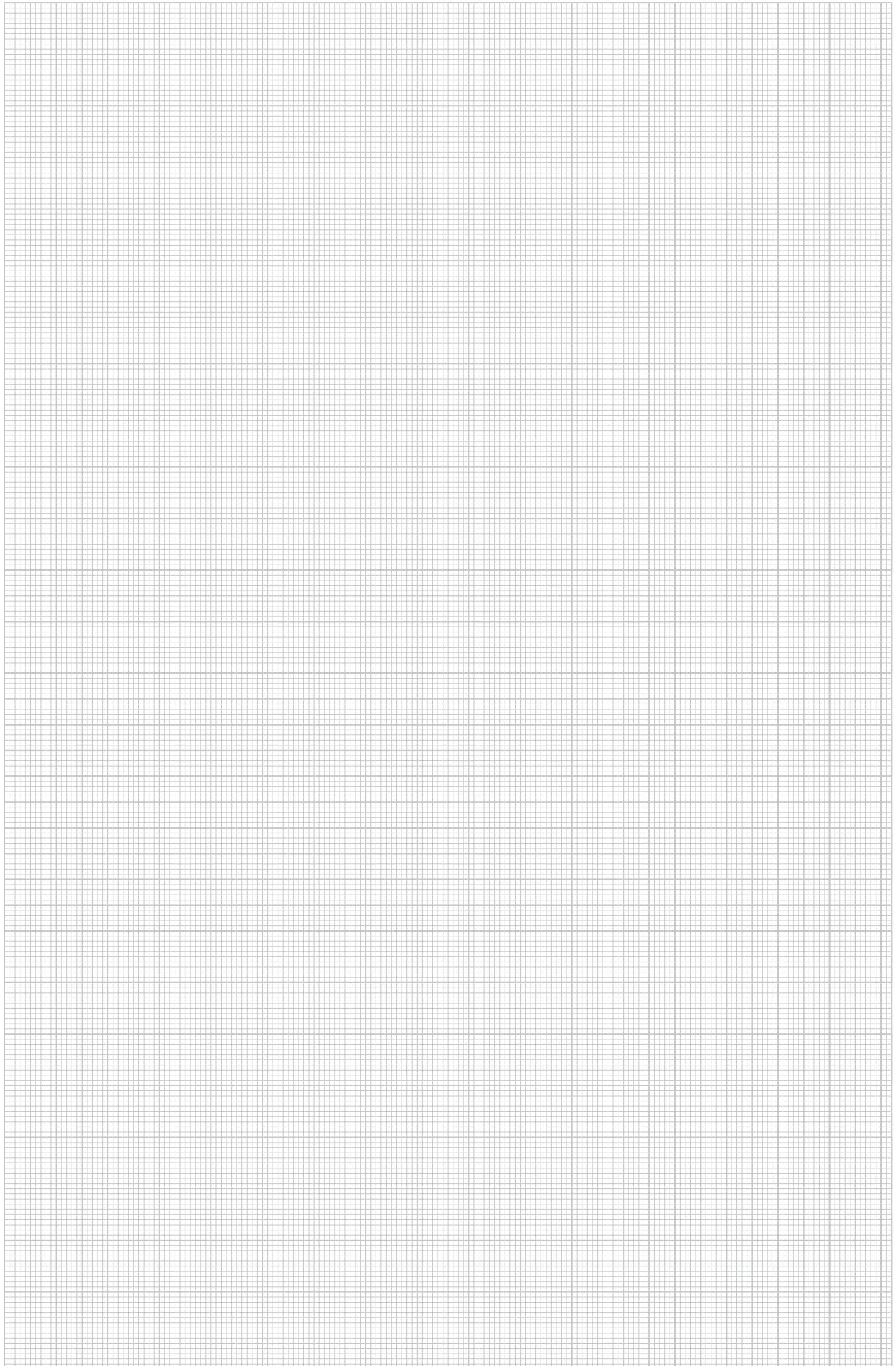
1 cut-out tool for every 10 boxes

Junction box A 8 with terminal strip

Type	Accessories	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
A 8 5	1 terminal strip	Light grey	75x75x36,7	65x65x32	10	6.500	2000024

Protection rating IP55, nominal voltage 690 V, nominal cross-section 2,5 mm², 7 entries for cable diameter 5–14 mm.
Clamshell.
Dimensions: 75 x 75 x 36,2 mm
Clear internal dimensions: 65x65x32 mm
1 cut-out tool for every 10 boxes







Junction boxes T series

Intelligence is the natural characteristic of the T series: Our developers have used high-quality materials, sensible wall thicknesses and a stable construction to ensure that the T series can stand up to even the hardest conditions. All the boxes are made of halogen-free polypropylene and do not contain fluorine, chlorine or bromine.



- Wide range: Seven sizes, six variants
- High impermeability of IP 66
- High impact resistance of IK 08
- White variants with UV protection for outdoor use
- Flame-resistant: Standard up to 650 °C, special models up to 960 °C
- Halogen-free: Without chloride, fluoride or bromine



Junction box T 25, plug-in seal

CE IP 65 M25 2,5 mm² 4 IK 500 V IK07 Flame-resistant 650°C OVB KEMA



Type	T 25
Colour	Light grey
Entries	4 x M25
Dimension mm	Ø80x51
Clear internal dimensions mm	Ø63x45
Pack Piece	5
Weight kg/100 pc.	4.190
Item no.	2007029

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Round design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 40, plug-in seal

CE IP 55 M25 4 mm² 7 IK 500 V IK07 Flame-resistant 650°C OVB KEMA



Type	T 40
Colour	Light grey
Entries	7 x M25
Dimension LxWxH mm	90x90x52
Clear internal dimensions mm	77x77x46
Pack Piece	5
Weight kg/100 pc.	6.700
Item no.	2007045

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction boxes, T series with plug-in seal

Junction box T 60, plug-in seal

CE IP 66 M25 6 mm² 7 500 V IK 07 Flame-resistant 650 °C KEMA KEUR



Type	T 60
Colour	Light grey
Entries	7 x M25
Dimension LxWxH mm	114x114x57
Clear internal dimensions mm	100x100x48
Pack Piece	5
Weight kg/100 pc.	12.300
Item no.	2007061

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 100, plug-in seal

CE IP 66 M25 10 mm² 10 500 V IK 07 M32 Flame-resistant 650 °C KEMA KEUR



Type	T 100	T 100 M25-M32
Colour	Light grey	Light grey
Entries	10 x M25	8 x M25 2 x M32
Dimension LxWxH mm	150x116x67	150x116x67
Clear internal dimensions mm	136x102x57	136x102x57
Pack Piece	1	1
Weight kg/100 pc.	16.270	16.300
Item no.	2007077	2007081

PP Polypropylene

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T 160, plug-in seal

CE **IP 66** **M25** **M32** **16 mm²** **12** **500 V** **IK 05** **T** **Flame-resistant** **650 °C** **DKEUR** **KEMA**



Type	T 160
Colour	Light grey
Entries	7 x M25 5 x M32
Dimension LxWxH mm	190x150x77
Clear internal dimensions mm	176x135x67
Pack Piece	1
Weight kg/100 pc.	30.000
Item no.	2007093

PP/GF Polypropylene, fibre-glass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 160, with 10xM32 entries

CE **IP 66** **M25** **M32** **16 mm²** **12** **500 V** **IK 05** **T** **Flame-resistant** **650 °C** **DKEUR** **KEMA**



Type	T 160 M32
Colour	Light grey
Entries	10 x M32
Dimension LxWxH mm	190x150x77
Clear internal dimensions mm	176x135x67
Pack Piece	1
Weight kg/100 pc.	30.000
Item no.	2007097

PP/GF Polypropylene, fibre-glass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 250, plug-in seal



Type	T 250
Colour	Light grey
Entries	9 x M25 7 x M32
Dimension LxWxH mm	240x190x95
Clear internal dimensions mm	225x173x86
Pack Piece	1
Weight kg/100 pc.	50.000
Item no.	2007109

PP/GF Polypropylene, fibre-glass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN 50102.

Junction box T 350, plug-in seal



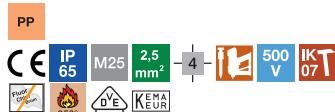
Type	T 350
Colour	Light grey
Entries	16 x M32 8 x M40
Dimension LxWxH mm	285x201x120
Clear internal dimensions mm	267x182x110
Pack Piece	1
Weight kg/100 pc.	63.000
Item no.	2007125

PP/GF Polypropylene, fibre-glass reinforced

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN 50102.

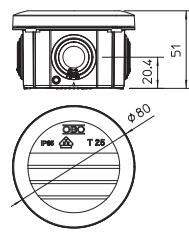
Junction boxes, T series with plug-in seal and terminal strip



Junction box T 25, plug-in seal, terminal strip

Type	Colour	Entries	Clear Dimension mm	internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 25 KL	Light grey	4xM25	080x51	063x45	5	6.400	2007430

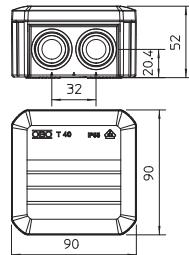
Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Round design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



Junction box T 40, plug-in seal, terminal strip

Type	Colour	Entries	Clear Dimension LxWxH mm	internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 40 KL	Light grey	7xM25	90x90x52	77x77x46	5	8.900	2007432

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside. With fixed clamping cover. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

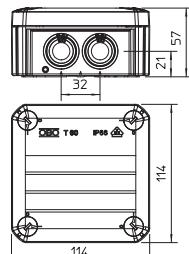


Junction box T 60, plug-in seal, terminal strip

Type	Entries	Colour	Clear Dimension LxWxH mm	internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 KL	7xM25	Light grey	114x114x57	100x100x48	5	16.700	2007434

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

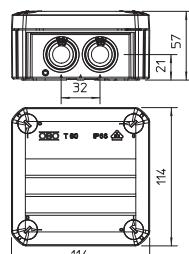
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.



Junction box T 60, plug-in seal, terminal strip, cast resin

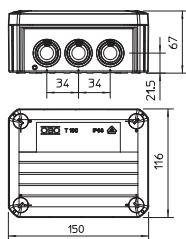
Type	Colour	Entries	Clear Dimension LxWxH mm	internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 hars	Light grey	7xM25	114x114x57	100x100x48	1	64.000	2010007

Set consisting of a T 60 junction box with terminal strip, casting resin and a pair of disposable gloves. 2-component casting resin in a mixing bag to protect the electrical installation against moisture, in accordance with the IP68 protection class, and mechanical loads.



Junction boxes, T series with plug-in seal and terminal strip

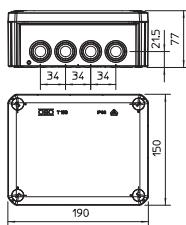
Junction box T 100, plug-in seal, terminal strip



Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 KL	Light grey	10x M25	150x116x67	136x102x57	1	40.000	2007436

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

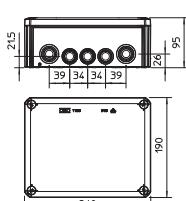
Junction box T 160, plug-in seal



Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 KL	Light grey	7x M25 5x M32	190x150x77	176x135x67	1	64.200	2007440

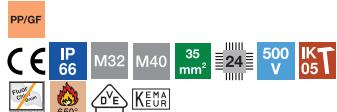
Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 250, plug-in seal, terminal strip



Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 250 KL	Light grey	9x M25 7x M32	240x190x95	225x173x86	1	79.500	2007444

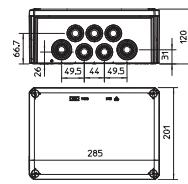
Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



Junction box T 350, plug-in seal, terminal strip

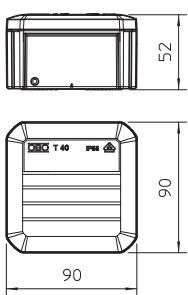
Type	Colour	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 350 KL	Light grey	16 x M32 8 x M40	285x201x120	267x182x110	1	95.700	2007448

Junction box with terminal strip for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



Junction boxes, T series closed

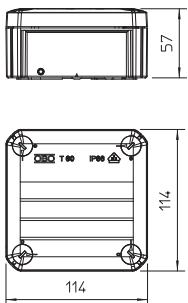
Junction box T 40, closed



Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 40 OE	Light grey	90x90x52	77x77x46	5	6.300	2007223

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. With fixed clamping cover. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

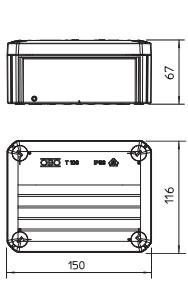
Junction box T 60, closed



Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 OE	Light grey	114x114x57	100x100x46	5	12.000	2007239

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102.

Junction box T 100, closed



Type	Colour	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 OE	Light grey	150x116x67	136x102x57	1	16.200	2007255

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

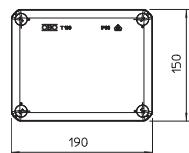


KEMA

Type	Colour	Dimension LxWxH mm	internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 OE	Light grey	190x150x77	176x135x67	1	30.000	2007271

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK04 according to DIN EN 50102.

Junction box T 160, closed

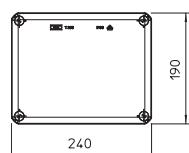


KEMA

Type	Colour	Dimension LxWxH mm	internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 250 OE	Light grey	240x190x95	225x173x86	1	48.300	2007287

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 250, closed



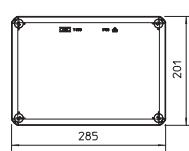
KEMA

Type	Colour	Dimension LxWxH mm	internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 350 OE	Light grey	285x201x120	267x182x110	1	58.800	2007303

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. Cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

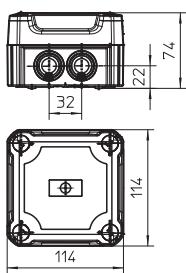
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

Junction box T 350, closed



Junction boxes, T series with raised lid and plug-in seals

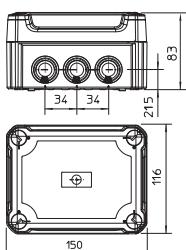
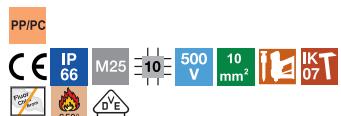
Junction box T60, plug-in seal, elevated cover



Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 HD LGR	7xM25	114x114x74	100x100x65	1	17.180	2007710

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
 With hat profile rail.
 Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T100, plug-in seal, elevated cover

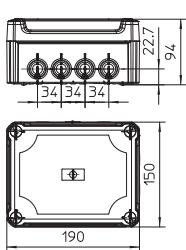


Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 HD LGR	10xM25	150x116x83	136x102x74	1	22.550	2007712

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
 With hat profile rail.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T160, plug-in seal, elevated cover



Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 HD LGR	7xM25 5xM32	190x150x94	176x135x84	1	34.180	2007714

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
 With hat profile rail.

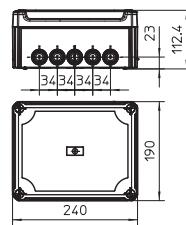
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



Junction box T250, plug-in seal, elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 250 HD LGR	9xM25 7xM32	240x190x112	225x173x103	1	52.010	2007716

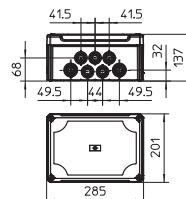
Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. With hat profile rail. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



Junction box T350, plug-in seal, elevated cover

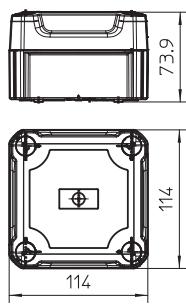
Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 350 HD LGR	16xM32 8xM40	285x201x137	267x182x127	1	72.760	2007718

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. With hat profile rail. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



Junction boxes, T series with raised lid, closed

Junction box T60, closed, elevated cover

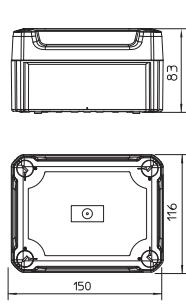


Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 OE HD LGR	None	114x114x74	100x100x63	1	16.600	2007730

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. With hat profile rail.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T100, closed, elevated cover

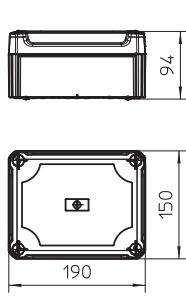


Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 OE HD LGR	None	150x116x83	136x102x74	1	23.650	2007732

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T160, closed, elevated cover

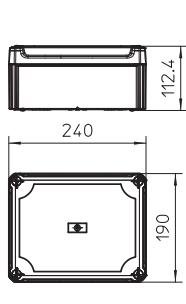


Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 OE HD LGR	None	190x150x94	176x135x84	1	33.920	2007734

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK04 according to DIN EN 50102.

Junction box T250, closed, elevated cover



Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 250 OE HD LGR	None	240x190x112	225x173x102	1	50.570	2007736

Closed junction box for the connection of cables in indoor and protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option of fastening inside and to mount via the corner domes. High cover with quick lock, sealable. Made from halogen-free, UV-stabilised materials.

With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



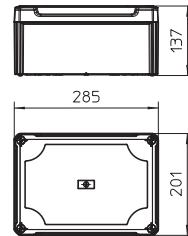
Junction box T350, closed, elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 350 OE HD LGR	None	285x201x137	267x182x127	1	68.660	2007738

Closed junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design without entries. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.

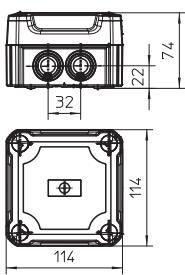
With hat profile rail.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



Junction boxes, T series with raised transparent lid and plug-in seal

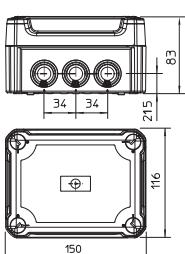
Junction box T60, with plug-in seal, transparent elevated cover



Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 60 HD TR	7xM25	114x114x74	100x100x65	1	17.180	2007750

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Square design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

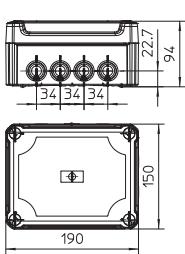
Junction box T100, with plug-in seal, transparent elevated cover



Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 100 HD TR	10xM25	150x116x83	136x102x74	1	22.550	2007752

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK07 according to DIN EN 50102.

Junction box T160, with plug-in seal, transparent elevated cover



Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 160 HD TR	7xM25 5xM32	190x150x94	176x135x84	1	34.180	2007754

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting and on mounting panels. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials.
With hat profile rail.
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.

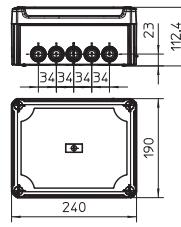
Junction boxes, T series with raised transparent lid and plug-in seal



Junction box T250, with plug-in seal, transparent elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 250 HD TR	9xM25 7xM32	240x190x112	225x173x103	1	52.010	2007756

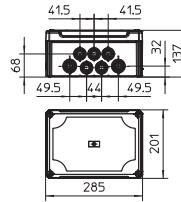
Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals to the sides and knock-out entries in the bottom. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. With hat profile rail. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



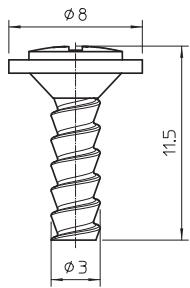
Junction box T350, with plug-in seal, transparent elevated cover

Type	Entries	Dimension LxWxH mm	Clear internal dimensions mm	Pack Piece	Weight kg/100 pc.	Item no.
T 350 HD TR	16xM32 8xM40	285x201x137	267x182x127	1	72.760	2007758

Junction box for the connection of cables and lines indoors and in protected outdoor areas. Rectangular design with plug-in seals. Suitable for wall and ceiling mounting, on mounting panels and threads in the floor. With the option to fasten inside and to mount via the corner domes. High, transparent cover with quick lock, sealable. Made from halogen-free and UV-stabilized materials. With hat profile rail. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK05 according to DIN EN 50102.



Fastening pin for mounting plates

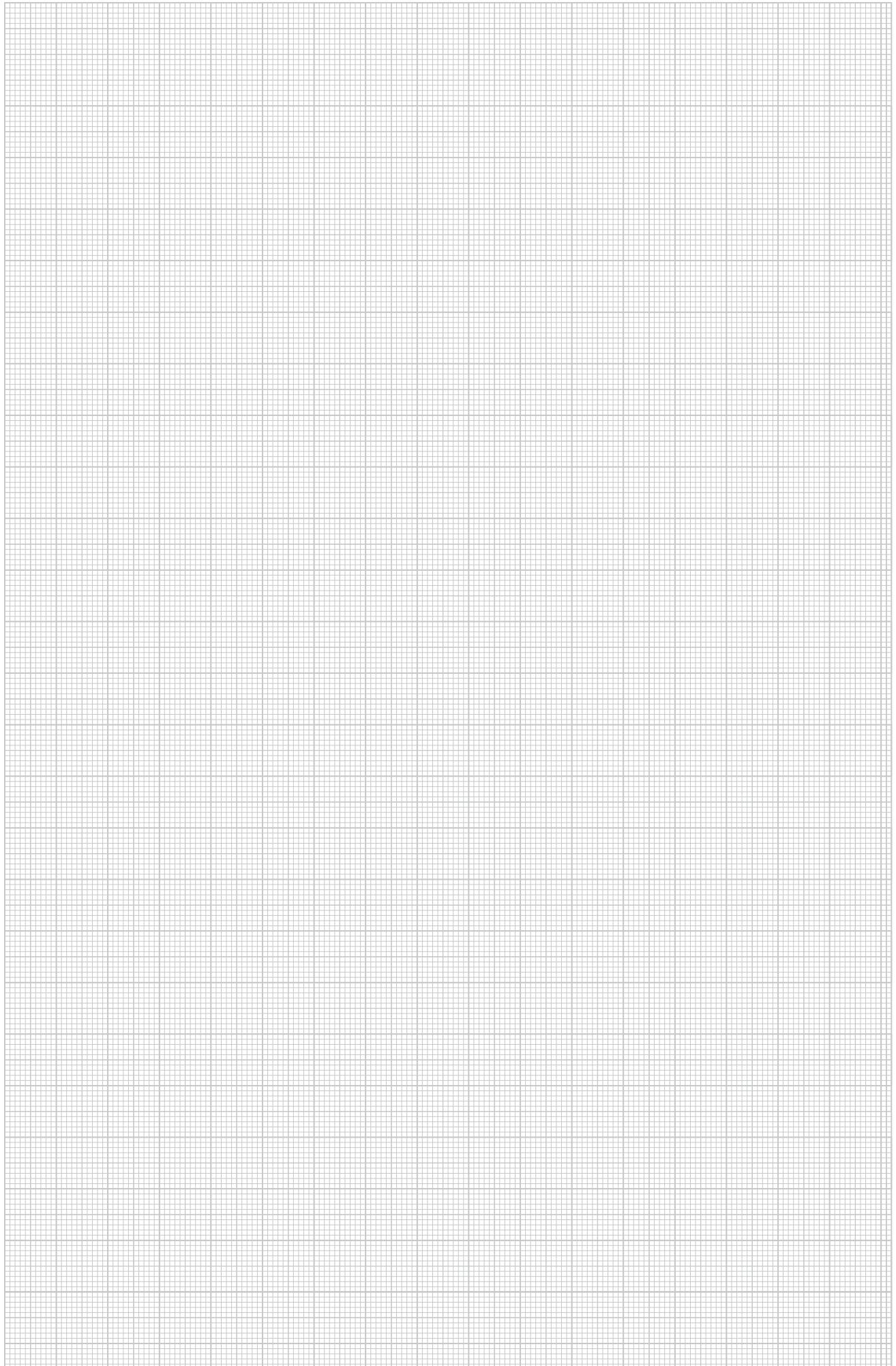


Type
T-S MST

Pack Weight
Piece kg/100 pc. Item no.
100 0.090 2007831

Metal fastening pin for fastening the T series onto mounting plates or other thin-walled supporting structures. Mounted by simply pressing the bolt into the fastening holes in the T series. Easy removal with a screw thread.





X-TREME

The X series of the junction boxes

Robust and impact-resistant

**For outdoor applications
and the toughest conditions**

Simple and flexible installation

**Tested according to DIN EN
60670 Part 1 and 22**

With the new X series, OBO Bettermann can offer a range of junction boxes and empty housings that can withstand even the toughest impacts. The use of special plastics based on high-quality polycarbonate allows the X series to meet the requirements for the highest level of impact resistance, achieving the protection rating of IK09.

IK 09 T

Junction boxes, X series with knock-out entries and plug-in seals

Junction box X 01



Type	X01 LGR	X01 LGR-TR	X01 SW
Colour	Light grey	Grey/transparent	Graphite black
Entries	7 x Ø20	7 x Ø20	7 x Ø20
Dimension LxWxH mm	95x95x60	95x95x60	95x95x60
Clear internal dimensions mm	85x85x45	85x85x45	85x85x45
Pack Piece	1	1	1
Weight kg/100 pc.	16.000	16.000	16.000
Item no.	2005000	2005050	2005110

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

Junction box X 02



Type	X02 LGR	X02 LGR-TR	X02 SW
Colour	Light grey	Grey/transparent	Graphite black
Entries	7 x Ø20	7 x Ø20	7 x Ø20
Dimension LxWxH mm	95x95x72	95x95x72	95x95x72
Clear internal dimensions mm	85x85x57	85x85x57	85x85x57
Pack Piece	1	1	1
Weight kg/100 pc.	17.800	17.800	17.800
Item no.	2005004	2005054	2005114

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

Junction boxes, X series with knock-out entries and plug-in seals

Junction box X 04

CE IP 67 IK 09 T M20 M25 7 4 mm² 750 V UV RESISTANT Flame-resistant 650° Quick lock



Type	X04 LGR	X04 LGR-TR	X04 SW
Colour	Light grey	Grey/transparent	Graphite black
Entries	7 x Ø20/25	7 x Ø20/25	7 x Ø20/25
Dimension LxWxH mm	114x114x78	114x114x78	114x114x78
Clear internal dimensions mm	102x102x60	102x102x60	102x102x60
Pack Piece	1	1	1
Weight kg/100 pc.	26.600	26.600	26.600
Item no.	2005008	2005058	2005118

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

Junction box X 06

CE IP 67 IK 09 T M20 M25 8 6 mm² 750 V M32 UV RESISTANT Flame-resistant 650° Quick lock



Type	X06 LGR	X06 LGR-TR	X06 SW
Colour	Light grey	Grey/transparent	Graphite black
Entries	4 x Ø20/25, 4 x Ø20/25/32	4 x Ø20/25, 4 x Ø20/25/32	4 x Ø20/25, 4 x Ø20/25/32
Dimension LxWxH mm	151x117x87	151x117x87	151x117x87
Clear internal dimensions mm	137x105x68	137x105x68	137x105x68
Pack Piece	1	1	1
Weight kg/100 pc.	33.500	33.500	33.500
Item no.	2005012	2005062	2005122

PC Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.

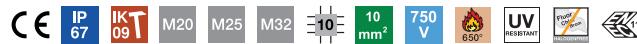
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

Junction boxes, X series with knock-out entries and plug-in seals

Junction box X 10



Type	X10 LGR	X10 LGR-TR	X10 SW
Colour	Light grey	Grey/transparent	Graphite black
Entries	10 x Ø20/25/32	10 x Ø20/25/32	10 x Ø20/25/32
Dimension LxWxH mm	191x151x126	191x151x126	191x151x126
Clear internal dimensions mm	177x137x110	177x137x110	177x137x110
Pack Piece	1	1	1
Weight kg/100 pc.	59.200	59.200	59.200
Item no.	2005016	2005066	2005126

Polycarbonate

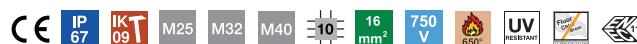
Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

Junction box X 16



Type	X16 LGR	X16 LGR-TR	X16 SW
Colour	Light grey	Grey/transparent	Graphite black
Entries	10 x Ø25/32/40	10 x Ø25/32/40	10 x Ø25/32/40
Dimension LxWxH mm	241x191x126	241x191x126	241x191x126
Clear internal dimensions mm	227x177x110	227x177x110	227x177x110
Pack Piece	1	1	1
Weight kg/100 pc.	79.300	79.300	79.300
Item no.	2005020	2005070	2005130

Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

Junction box X 25

CE RoHS conform **IP 67** **IK 08** M25 M40 M50 **10** **25 mm²** **750 V** **UV RESISTANT** **650°** **FR**



Type	X25 LGR	X25 LGR-TR	X25 SW
Colour	Light grey	Grey/transparent	Graphite black
Entries	10 x Ø25/40/50	10 x Ø25/40/50	10 x Ø25/40/50
Dimension LxWxH mm	286x202x126	286x202x126	286x202x126
Clear internal dimensions mm	271x187x110	271x187x110	271x187x110
Pack Piece	1	1	1
Weight kg/100 pc.	96.500	96.500	96.500

Item no.

2005024**2005074****2005134****PC** Polycarbonate

Junction box for the connection of cables and lines indoors and in outdoor areas. Rectangular design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK08. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK08 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

Junction boxes, X series with knock-out entries and cable glands



Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X01 G M20 LGR	Light grey	7xØ20	1	19.000	2005030

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 3 cable glands V-TEC M20 and 3 locknuts.

Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

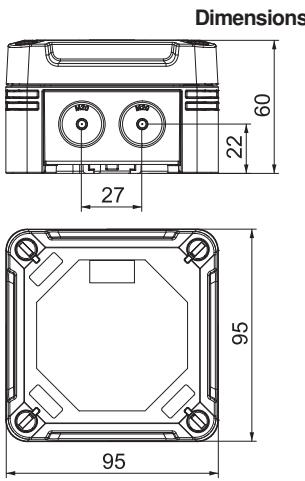
The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

In addition, the type X01 G M20 LGR also includes three V-TEC cable glands and three locknuts.

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

Type	Clear Dimension internal LxWxH dimensions mm mm mm
X01 G M20 LGR	95x95x60 85x85x45

Junction box X 01 with cable gland



Junction box X 02 with cable gland



PC	CE	IP 67	IK 09	M20	7	2,5 mm ²	750 V	650
UV RESISTANT	VDE 0606-1 0606-22	EN 60670-1 60670-22	IEC 60529					

Type	Colour	Entries	Pack	Weight	Item no.
X02 G M20 LGR	Light grey	7x020	1	21.500	2005032

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 3 cable glands V-TEC M20 and 3 locknuts.

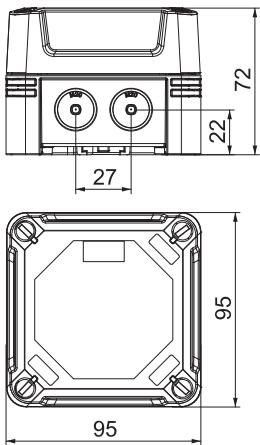
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

In addition, the type X02 G M20 LGR also includes three V-TEC cable glands and three locknuts.

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

Dimensions



Type	Clear Dimension	internal LxWxH dimensions
X02 G M20 LGR	95x95x72	85x85x57

Junction boxes, X series with knock-out entries and cable glands



Junction box X 04 with cable gland

Type	Colour	Entries	Pack Piece	Weight kg/100 pc.	Item no.
X04 G M20 LGR	Light grey	7xØ20/25	1	31.400	2005034

Junction box for the connection of cables and lines indoors and in outdoor areas. Square design with knock-out entries. Suitable for wall and ceiling mounting with the option to fasten outside, inside or to mount via the corner domes. Particularly impact resistant with IK09. Cover with quick lock, sealable. Made from halogen-free and UV-resistant materials. Including 3 cable glands V-TEC M20 and 3 locknuts.

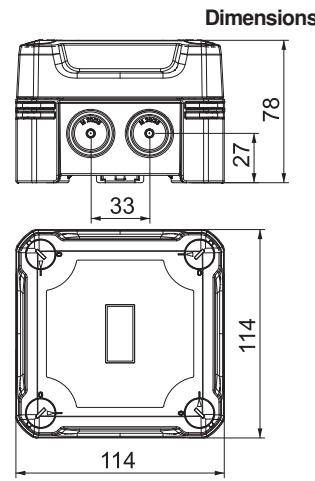
Junction box according to DIN EN 60670. Flame-resistant to DIN EN 60695/2/11, test temperature 650 °C. Impact resistance IK09 according to DIN EN 50102. Protection rating IP67 according to DIN EN 60529.

The junction box fulfils the protection type test requirements to IP 67 according to DIN EN 60529, VDE0470-1:2014 (EN 60529/AC:2016).

In addition, the type X04 G M20 LGR also includes three V-TEC cable glands and three locknuts.

The junction box is tested according to DIN EN 60670-1, VDE 0606-1:2014 (EN 60670-1:2005 + Cor.:2007 + Cor.:2010 + A1:2013) and DIN EN 60670-22, VDE 0606-22:2007 (EN 60670-22:2006).

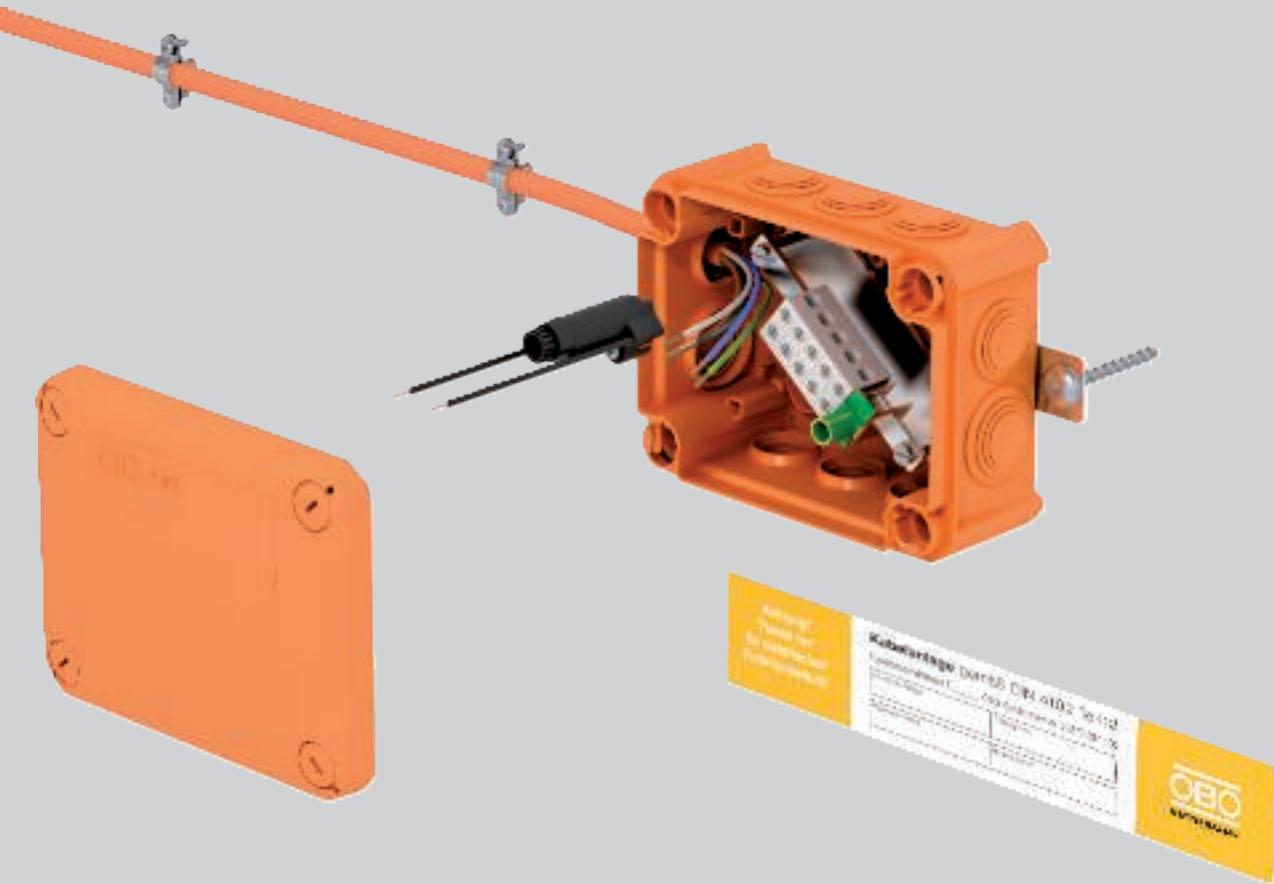
Type	Dimension	Clear internal dimensions
	LxWxH mm	mm
X04 G M20 LGR	114x114x78	102x102x60



Junction box, FireBox

System description

Junction boxes



Junction boxes of the FireBox series are available for connecting and branching safety cables. These are equipped with a high-temperature-resistant connection unit with ceramic terminals and offer terminal areas of 0.5 mm² to 16 mm² of copper cross-section. The T series FireBoxes possess all the benefits of thermoplastic cable junction boxes. These include the high IP protection rating of up to IP66 and the maximum impact resistance of up to IK10 and a high resistance to breakage. Boxes with soft plug-in seals or closed variants are available. Here, the cable glands can be located freely.

Fastening either takes place on the outer straps or through the box base with fire protection bolt ties. The high-temperature-resistant terminals are pre-mounted on the connection unit. The protective conductor terminal is connected to the support clamp, meaning that covers of the metal parts are not required. The FireBox is tested and approved as a connection socket for maintenance of electrical functionality to DIN 4102 Part 12 with the classes E30, E60 and E90. A separate fuse holder allows protection of a branch.

Junction box, FireBox

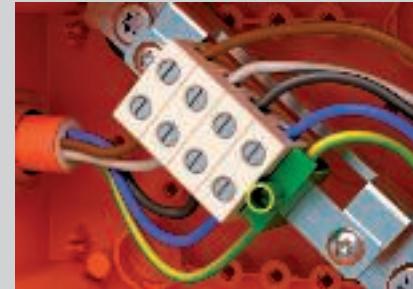
Installation principle



Fully installed FireBox with identification plate.



FireBox mounting with mounting plate on cable tray.



Version with 4 terminals and protective conductor terminal for power cables.



Cable entry with plug-in seals.



Mounting with fire protection bolt tie through the clamp and base of the FireBox.



Quick lid mounting through 90° rotation of the corner screws.

Classification according to DIN 4102 Part 12

E30

E60

E90

System description

Routing type	Thermoplastic junction box with high-temperature-resistant connection unit
Test certificate no.	P-MPA-E-08-016 in conjunction with the surveyor's report 210005956-6 and GS 3-2/13-370-1
Maintenance of electrical function classes	E30 to E90
Testing standard	DIN 4102 Part 12

Approved data

Clamping capacity of the ceramic terminals

	0.5 mm ²	1.5 mm ²	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
4 mm ²	6	4	2	2	-	-	-
6 mm ²	8	6	2	2	2	-	-
10 mm ²	-	8	6	4	2	2	-
16 mm ²	-	10	8	4	4	2	2

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

FireBox with plug-in seal and external fastening

PP

FireBox with plug-in seals, single terminals



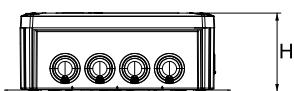
Type	Nominal cross-section mm ²	Single terminals	Protective terminal	Entries	Pack Piece	Weight kg/100 pc.	Item no.
T100ED 06A	6	4	1	8xM25 2xM32	1	42.730	7205740
T160ED 10A	10	4	1	7xM25 5xM32	1	62.918	7205742
T250ED 16A	16	4	1	9xM25 7xM32	1	92.919	7205744

Connection box with soft plug-in seals. Sufficiently large wiring compartment through diagonally arranged connection unit with completely pre-mounted, high-temperature-resistant ceramic terminals. Green-yellow labelled protective conductor terminal. Fastening on easily accessible external flaps. Approved for cable systems that maintain the electrical function according to DIN 4102 Part 12 with the classes E30, E60 and E90. Ceramic clamps have been tested according to DIN EN 60998-2-1:2004.

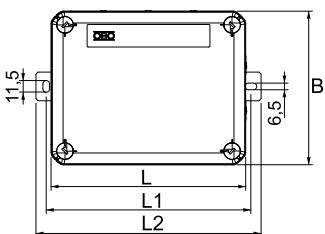
Including 2 x MMSplus P 6x35 screw ties.

Junction boxes

Dimensions



Type	Dim. L	Dim. B	Dim. H	Dim. L1	Dim. L2	
	mm	mm	mm	mm	mm	
T100ED 06A	150	116	67	162	182	
T160ED 10A	190	150	77	200	220	
T250ED 16A	240	190	95	250	270	



FireBox with plug-in seals, 1 fuse holder

PP

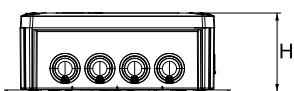


Type	Nominal cross-section mm ²	Single terminals	Double terminals	Protective terminal	Entries	Pack Piece	Weight kg/100 pc.	Item no.
T100ED 06AF	6	3	2	1	8xM25 2xM32	1	48.650	7205752
T160ED 10AF	10	3	2	1	7xM25 5xM32	1	70.513	7205754
T250ED 16AF	16	3	2	1	9xM25 7xM32	1	104.854	7205756

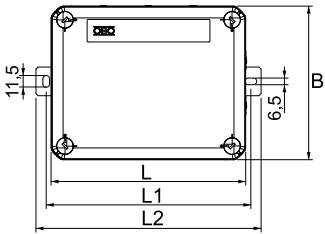
Junction box with one fuse holder and soft plug-in seals. Sufficiently large wiring compartment through diagonally arranged connection unit with completely pre-mounted, high-temperature-resistant ceramic terminals. Green-yellow labelled protective conductor terminal. Fastening on easily accessible external flaps. Approved for cable systems that maintain the electrical function according to DIN 4102 Part 12 with the classes E30, E60 and E90. Ceramic clamps have been tested according to DIN EN 60998-2-1:2004.

Including 2 x MMSplus P 6x35 screw ties.

Dimensions



Type	Dim. L	Dim. B	Dim. H	Dim. L1	Dim. L2	
	mm	mm	mm	mm	mm	
T100ED 06AF	150	116	67	162	182	
T160ED 10AF	190	150	77	200	220	
T250ED 16AF	240	190	95	250	270	



PP

FireBox with plug-in seals, 2 fuse holders

Type	Nominal cross-section mm ²	Single terminals	Double terminals	Protective terminal	Entries	Pack Piece	Weight kg/100 pc.	Item no.
T100ED 06A2F	6	3	3	1	8xM25 2xM32	1	52.950	7205758
T160ED 10A2F	10	3	3	1	7xM25 5xM32	1	77.188	7205760
T250ED 16A2F	16	3	3	1	9xM25 7xM32	1	113.054	7205762

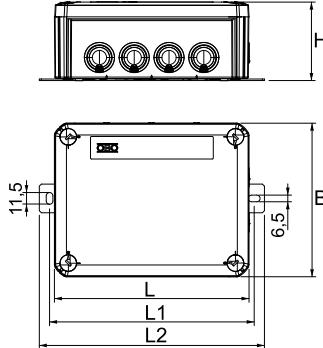


Junction box with two fuse holders and soft plug-in seals. Sufficiently large wiring compartment through diagonally arranged connection unit with completely pre-mounted, high-temperature-resistant ceramic terminals. Green-yellow labelled protective conductor terminal. Fastening on easily accessible external flaps. Approved for cable systems that maintain the electrical function according to DIN 4102 Part 12 with the classes E30, E60 and E90. Ceramic clamps have been tested according to DIN EN 60998-2-1:2004.

Including 2x MMSplus P 6x35 screw ties.

Type	Dim. mm				
	L	B	H	L1	L2
T100ED 06A2F	150	116	67	162	182
T160ED 10A2F	190	150	77	200	220
T250ED 16A2F	240	190	95	250	270

Dimensions

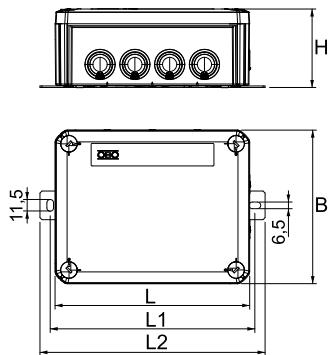


FireBox, with plug-in seals, for data technology

Type	Nominal cross-section mm ²	Single terminals	Protective terminal	Entries	Pack Piece	Weight kg/100 pc.	Item no.
T100ED 4x4AD	0.5-4	4	1	8xM25 2xM32	1	41.690	7205764
T100ED 4x8AD	0.5-4	8	1	8xM25 2xM32	1	45.210	7205766
T250ED 4x16AD	0.5-4	16	4	9xM25 7xM32	1	91.441	7205768
T250ED 4x24AD	0.5-4	24	4	9xM25 7xM32	1	101.643	7205770
T350ED 4x32AD	0.5-4	32	4	16xM32 8xM40	1	158.251	7205772

Connection box for data technology with soft plug-in seals. Pairs of high-temperature-resistant ceramic terminals, suitable for data cables. Green-yellow labelled protective conductor/shield terminal. Fastening on easily accessible external flaps. Approved for cable systems that maintain the electrical function according to DIN 4102 Part 12 with the classes E30, E60 and E90. Ceramic clamps have been tested according to DIN EN 60998-2-1:2004.

Including 2x MMSplus P 6x35 screw ties.

Dimensions

Type	Dim. L	Dim. B	Dim. H	Dim. L1	Dim. L2
	mm	mm	mm	mm	mm
T100ED 4x4AD	150	116	68	162	182
T100ED 4x8AD	150	116	68	162	182
T250ED 4x16AD	240	190	95	250	270
T250ED 4x24AD	240	190	95	250	270
T350ED 4x32AD	285	201	120	205	230

PP

Closed FireBox, empty

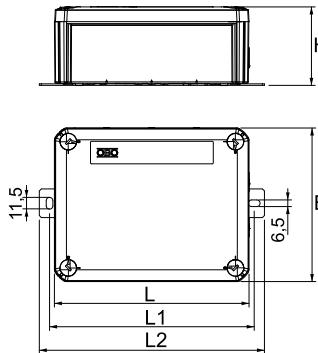
Type	Nominal cross-section mm ²	Dim. Equipment	Dim. A	Pack Piece	Weight kg/100 pc.	Item no.
T100E OVA	0.5-6	Support rail	101	1	33.890	7205780
T160E OVA	0.5-10	Support rail	130	1	49.203	7205782
T250E OVA	0.5-16	Support rail	286	1	74.084	7205784
T350E OVA	0.5-16	Support rail	386	1	121.611	7205786



Unequipped, closed connection or junction box for free termination with ceramic terminals and cable glands Dimension A states the available support rail length for the wiring terminals. Sufficiently large wiring compartment through diagonally arranged support rail. Fastening on easily accessible external flaps made of stainless steel. Approved for cable systems that maintain the electrical function according to DIN 4102 Part 12 with the classes E30, E60 and E90.

Type	Dim. L mm	Dim. B mm	Dim. H mm	Dim. L1 mm	Dim. L2 mm
T100E OVA	150	116	67	162	182
T160E OVA	190	150	77	200	220
T250E OVA	240	190	95	250	270
T350E OVA	285	201	120	205	230

Dimensions

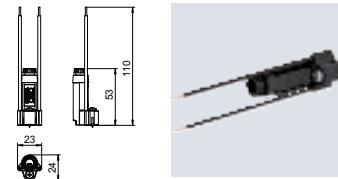


Ceramic terminals and accessories

Fuse holder for FireBox T series

Type	Pack Piece	Weight kg/100 pc.	Item no.
TE-FH 520	1	1.800	7205570

Fuse holder with bayonet lock for fine-wire fuse for dimensions Ø 5 x 20 mm. Connection wires that maintain electrical functionality with nominal cross-section 2.5 mm², ready-stripped. For mounting on one of the exposed domes in the junction box of the FireBox T series using the supplied screw.



Ceramic terminal

Type	Nominal cross-section mm ²	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
TK 04	0.5-4	85	21.5	21.5	5	0.880	7205700
TK 06	6	85	21.5	21.5	5	0.880	7205702
TK 10	10	12.5	24	24	5	1.840	7205704
TK 16	16	15	28	28	5	3.160	7205706



High-temperature-resistant ceramic terminal for refitting of the FireBox T series. Tested according to DIN EN 60998-2-1:2004.

Ceramic terminal, double



Type	Nominal cross-section mm ²	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
TK 06-2	6	19.5	21	22.5	5	2.500	7205703
TK 10-2	10	24.5	26.5	26	5	4.200	7205705
TK 16-2	16	27	29.5	30.5	5	6.400	7205707

High-temperature-resistant ceramic terminal with four connection options for refitting of the FireBox T series. Tested according to DIN EN 60998-2-1:2004.

PA

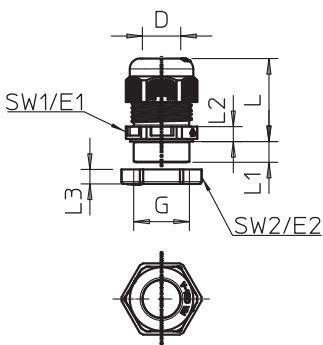
Cable gland with locknut as a set



Type	Thread	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM16+ OR	M16x1,5	10	0.771	7205657
V-TEC VM20+ OR	M20x1,5	10	1.106	7205660
V-TEC VM25+ OR	M25x1,5	10	1.710	7205663
V-TEC VM32+ OR	M32x1,5	10	2.840	7205666
V-TEC VM40+ OR	M40x1,5	10	5.150	7205669

Robust cap nut cable gland with metric connecting thread to IEC 423, including pre-mounted locknut. For high tightness requirements. Strain relief, torsion protection and tightness over the whole clamping area. Sealing ring made of polychloroprene/acrylonitrile butadiene rubber. Moulded shaped sealing lip on intermediate support, no connection thread sealing ring required. VDE-tested according to DIN EN 50262, protection rating IP68 at 5 bar for 1 hr. For maintenance of electrical function according to DIN 4102 Part 12 in connection with the closed junction boxes of the FireBox T series. Colour: Pastel orange.

Dimensions



Type	Dim. G mm	Sealing range D mm	Dim. L mm		Dim. L1 mm		Dim. L2 mm		Dim. L3 mm		Dim. SW mm		Dim. E1 mm		Dim. SW2 mm		Dim. E2 mm	
			min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
V-TEC VM16+ OR	M16x1,5	4.5-10	21.5	23.5	8	5	5	5	20	22	22	25						
V-TEC VM20+ OR	M20x1,5	6-13	23.5	30.5	9	5	6	6	24	27	24	27						
V-TEC VM25+ OR	M25x1,5	9-17	26	35	10	6	6.5	6.5	29	32	32	36						
V-TEC VM32+ OR	M32x1,5	15-21	29	40	11	6	7	7	36	41	41	46						
V-TEC VM40+ OR	M40x1,5	16-28	36	46	11	7	7.5	7.5	44	50	50	56						

TPE

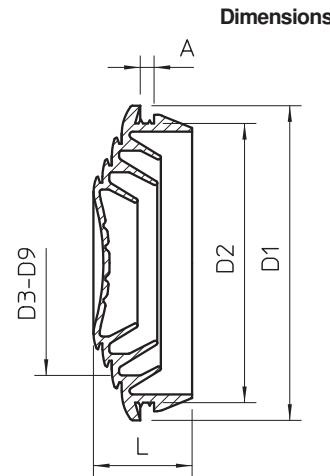
Plug-in seal for FireBox T series

Type	Size mm	For Ø	Pack Piece	Weight kg/100 pc.	Item no.
EDK 25 OR	M25	0-22	Pastel orange	10	0.214
EDK 32 OR	M32	0-27	Pastel orange	10	0.328
EDK 40 OR	M40	0-34	Pastel orange	10	0.534



The soft plug-in seal can be cut back step by step to suit the relevant cable diameter.
Colour: Pastel orange.

Type	Sealing				
	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. range mm
EDK 25 OR	10.1	22	29.5	25.4	0-22
EDK 32 OR	11.4	22	36.4	32.3	0-27
EDK 40 OR	13.4	22	44.1	40.2	0-34

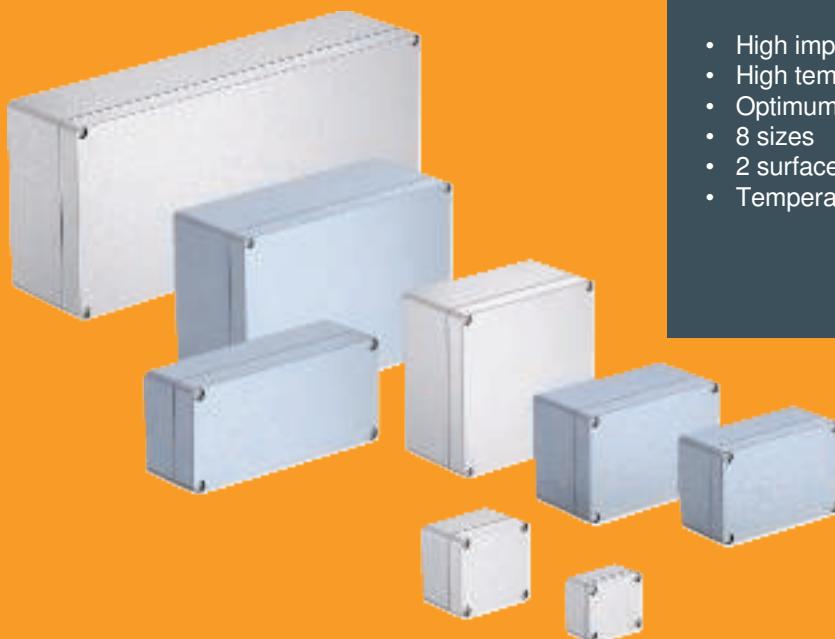




Junction boxes Mx series

Our aluminium empty housings were designed for use under the toughest conditions and provide optimum protection of the installation. The metal housing of the Mx series withstands extremely high and low temperatures, as well as large temperature differences. High impact loads in an industrial sur-

rounding, vandalism or rock falls are not able to harm the housing. Furthermore, the Mx series offers perfect EMC protection and is ideally secured against the entry of dust and water in line with protection rating IP66.



- High impact resistance
- High temperature resistance
- Optimum EMC protection
- 8 sizes
- 2 surface variants
- Temperature range: -40 to 125 °C

Aluminium empty housing Mx06, powder coated

Type	Mx 060503 SGR	Mx 080705 SGR	Mx 120805 SGR
Version	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws	Closed with 4 stainless steel lid screws
Colour	Silver grey	Silver grey	Silver grey
Dimension LxWxH mm	64x58x34	80x75x57	125x80x57
Clear internal dimensions mm	56.5x50.5x31.5	71x65.6x52.5	115.5x70.5x51
Pack Piece	1	1	1
Weight kg/100 pc.	19.200	36.400	50.000
Item no.	2011304	2011308	2011312

AIG Die-cast aluminium
P Powder-coated

Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent mechanical and thermal features make it most suitable for extreme demands in many different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The products protect the electrical installation against high-grade strains. They withstand both extreme cold and heat as well as vandalism and impact on roads, railways or in tunnels.
With an IP66 protection class, they are optimally protected against the intrusion of dust and water.
The aluminium housings are powder-coated (RAL 7001) and are delivered with a cover including stainless steel screws, a seal and two or four earthing screws.
Temperature: -40°C to +125°C

Aluminium empty housing Mx16, powder coated

Type	Mx 161609 SGR	Mx 170805 SGR	Mx 261609 SGR	Mx 361609 SGR
Version	Closed with 4 stainless steel lid screws			
Colour	Silver grey	Silver grey	Silver grey	Silver grey
Dimension LxWxH mm	160x160x90	175x80x57	260x160x90	360x160x91
Clear internal dimensions mm	149x149x84.5	165x70x51	229.5x149x94.5	317.5x149x92
Pack Piece	1	1	1	1
Weight kg/100 pc.	170.000	66.000	230.000	320.000
Item no.	2011320	2011324	2011328	2011332

AIG Die-cast aluminium
P Powder-coated

Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent mechanical and thermal features make it most suitable for extreme demands in many different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The products protect the electrical installation against high-grade strains. They withstand both extreme cold and heat as well as vandalism and impact on roads, railways or in tunnels.
With an IP66 protection class, they are optimally protected against the intrusion of dust and water.
The aluminium housings are powder-coated (RAL 7001) and are delivered with a cover including stainless steel screws, a seal and two or four earthing screws.
Temperature: -40°C to +125°C

Mx series junction boxes, aluminium, paintable

Aluminium empty housing Mx06, paintable



Type	Mx 060503 CR3	Mx 080705 CR3	Mx 090603 CR3	Mx 120805 CR3
Version	Closed with 4 stainless steel lid screws			
Dimension LxWxH mm	64x58x34	80x75x57	98x64x34	125x80x57
Clear internal dimensions mm	56,5x50,5x31,5	71x65,5x52,5	91x54x29	115,5x70,5x51
Pack Piece	1	1	1	1
Weight kg/100 pc.	19.200	36.400	25.000	50.000
Item no.	2011378	2011381	2011384	2011386

AIG Die-cast aluminium
Cr3 Chrome III coating

Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent features make it most suitable for extreme demands in all different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
The series' properties protect the electrical installation when under extreme strain. The products withstand both great cold and heat as well as impacts or kicks on roads, railways or in tunnels.
With a protection class of up to IP66, they are optimally protected against the intrusion of water. The aluminium is of course UV-resistant and halogen-free. The cover seal is made from polyurethane.
The aluminium housings are chrome 3-coated and are delivered with a cover including stainless steel screws, a seal and 2 or 4 earthing screws.
The chrome 3 surface provides a good contact when using metal fittings and can easily be painted or powder-coated.

Temperature: -40°C to +125°C

Aluminium empty housing Mx16, paintable

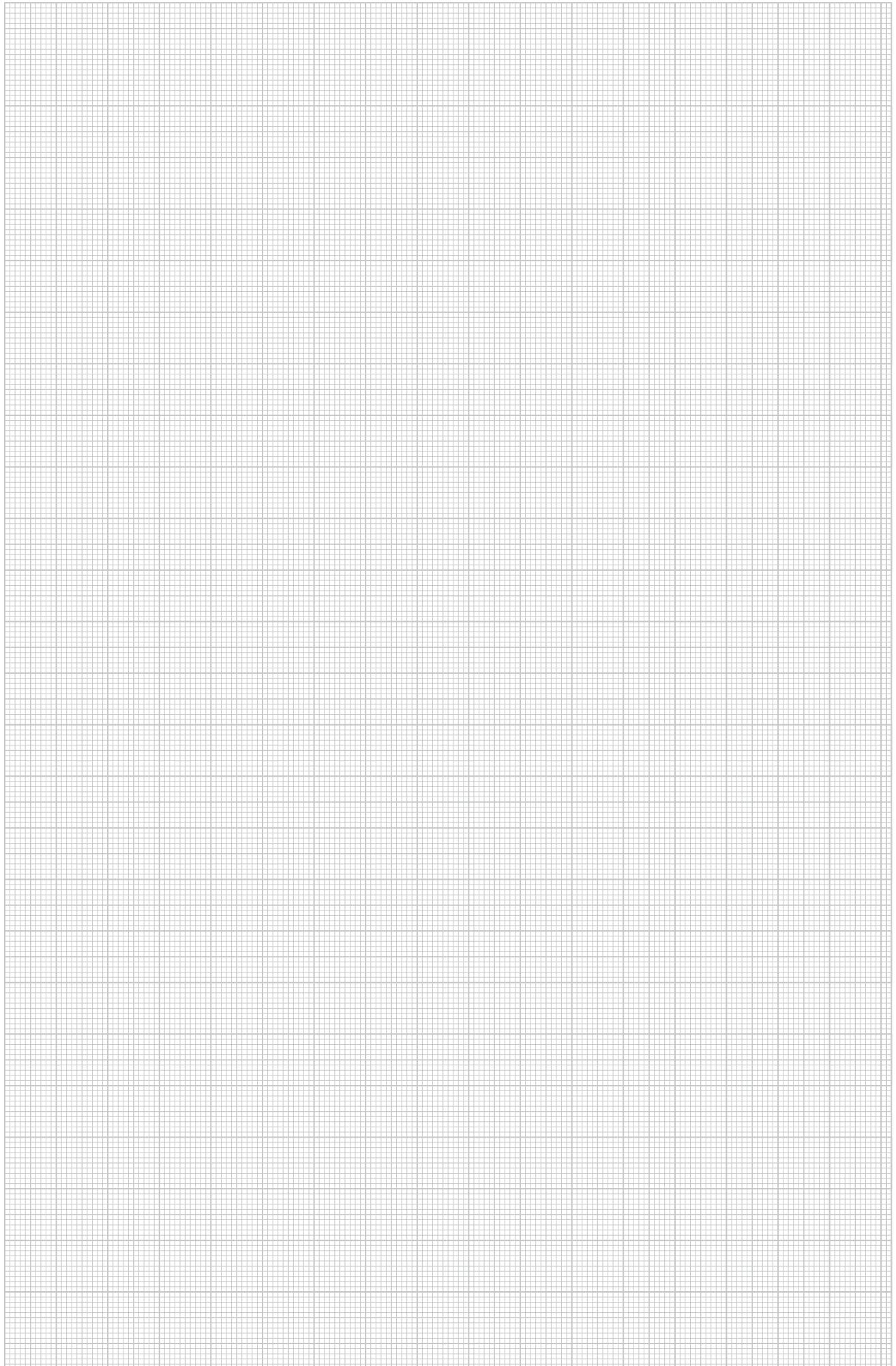


Type	Mx 161008 CR3	Mx 161609 CR3	Mx 221209 CR3	Mx 261609 CR3	Mx 361609 CR3
Version	Closed with 4 stainless steel lid screws				
Dimension LxWxH mm	160x100x81	150x100x91	220x120x90	260x160x90	360x160x91
Clear internal dimensions mm	140,5x90x74,5	140,5x90x74,5	210x109x81	249x149x82	317,5x149x82
Pack Piece	1	1	1	1	1
Weight kg/100 pc.	90.000	170.000	168.000	230.000	320.000
Item no.	2011389	2011392	2011394	2011396	2011398

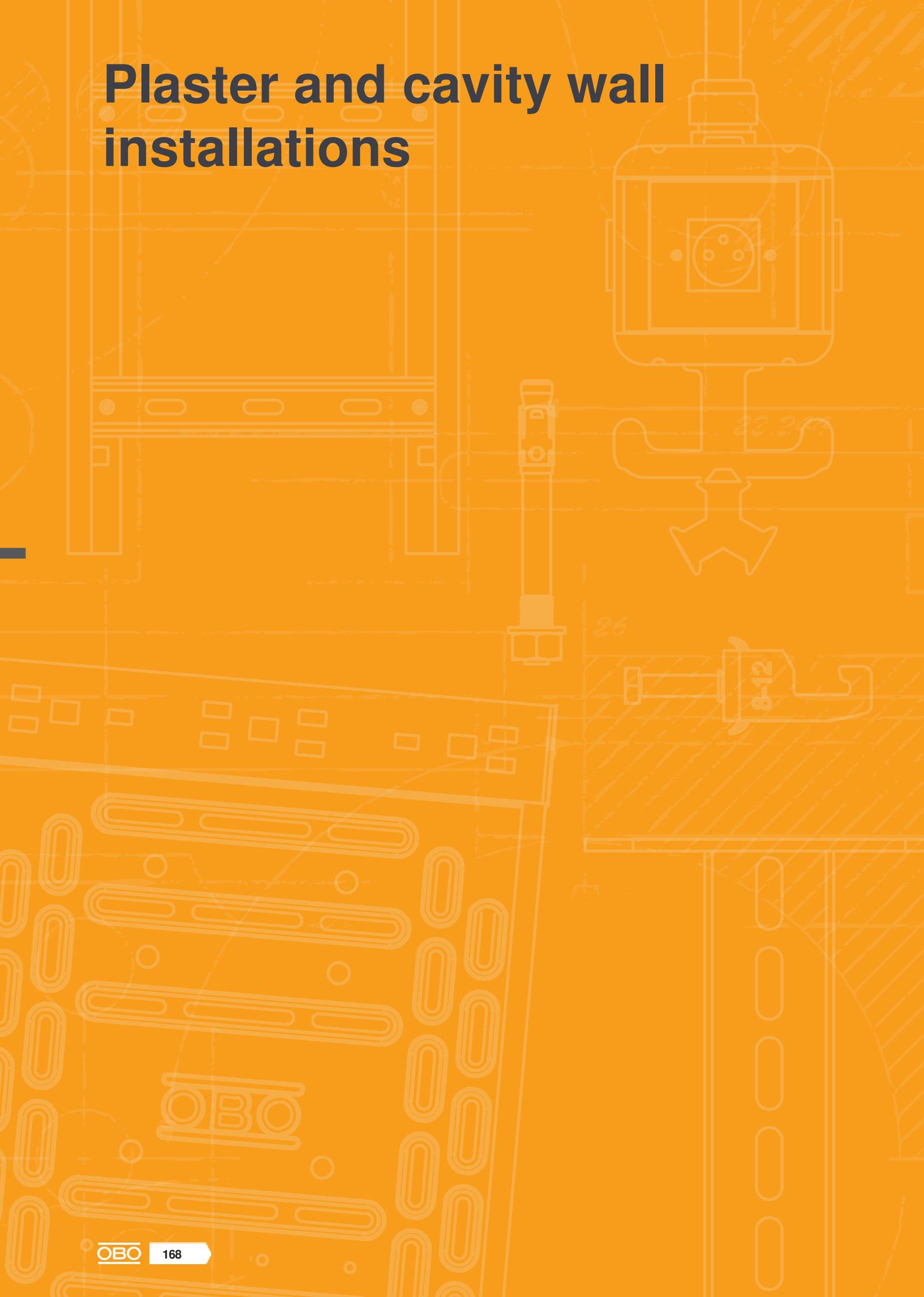
AIG Die-cast aluminium
Cr3 Chrome III coating

Robust aluminium empty housing for mechanical engineering and automation technology.
The OBO Mx series' excellent features make it most suitable for extreme demands in all different areas. It is therefore also best suited for applications in industry, ports and shipbuilding, as well as in the agricultural sector.
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The chrome 3 surface provides a good contact when using metal fittings and can easily be painted or powder-coated.

Temperature: -40°C to +125°C



Plaster and cavity wall installations



Plaster and cavity wall installations



Concealed systems

168



Cavity wall systems

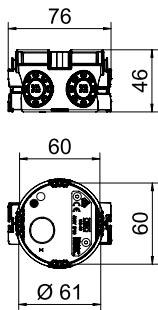
176



System accessories

180

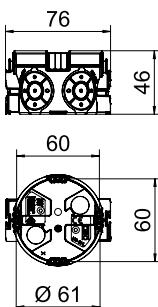
UP Flush-mounted device box 46



Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46	46	7	20/25 mm	Jet black	25	1.930	2003700

Flush-mounted device box, for use in masonry with an installation depth of at least 46 mm.
 • 4 x 3 screw domes
 • Connector with bayonet lock, couplable on both sides
 • 6 combination pipe insertions of Ø 20 and 25 mm
 • 1 entry up to Ø 20 mm in the base

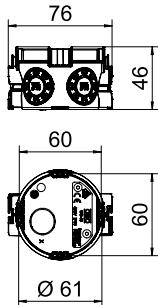
UP Flush-mounted device box 46, airtight



Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-L	46	8	20/25 mm	Jet black/blue-grey	25	2.040	2003706

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 46 mm.
 • 4 x 3 screw domes
 • Connector with bayonet lock, couplable on both sides
 • 4 combination pipe entries of Ø 20 and 25 mm
 • 2 entries up to Ø 20 mm in the connector
 • 2 entries up to Ø 12 mm in the base

UP Flush-mounted device box 46, with device screws



Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-GS	46	7	20/25 mm	Jet black	25	2.050	2003701

Flush-mounted device box, for use in masonry with an installation depth of at least 46 mm.
 • 4 x 3 screw domes
 • 2 pre-mounted device screws
 • Connector with bayonet lock, couplable on both sides
 • 6 combination pipe insertions of Ø 20 and 25 mm
 • 1 entry up to Ø 20 mm in the base

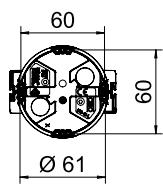
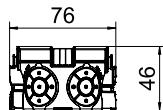


UP Flush-mounted device box 46, with device screws, airtight

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-GS-L	46	8	20/25 mm	Jet black/blue-grey	25	2.120	2003707

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 46 mm.

- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm in the connector
- 2 entries up to Ø 20 mm in the base

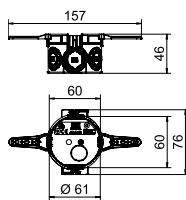


UP Flush-mounted device box 46, with nail straps

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 46-NL	46	7	20/25 mm	Jet black	25	2.200	2003714

Flush-mounted device box with nail straps, for use in masonry with an installation depth of at least 46 mm.

- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe insertions of Ø 20 and 25 mm
- 1 entry up to Ø 20 mm in the base

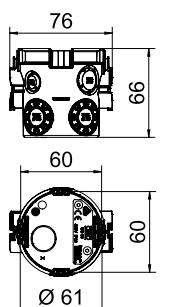


UP Flush-mounted device connection box 66

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66	66	13	20/25 mm	Jet black	25	2.390	2003702

Flush-mounted device box, for use in masonry with an installation depth of at least 66 mm.

- 4 x 3 screw domes
- Connection nozzle with bayonet lock, couplable on both sides
- 6 combination pipe entries up to Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 2 entries up to Ø 14 mm
- 1 entry up to Ø 20 mm in the base

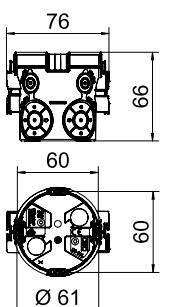


UP Flush-mounted device connection box 66, airtight

Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-L	66	14	20/25 mm	Jet black/blue-grey	25	2.510	2003708

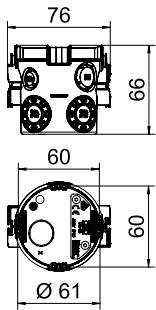
Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 66 mm.

- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm
- 6 entries up to Ø 12 mm
- 2 entries up to Ø 12 mm in the base



Accessory and connection sockets

UP Flush-mounted device connection box, with device screws

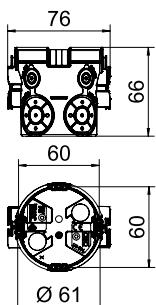


Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-GS	66	13	20/25 mm	Jet black	25	2.510	2003703

Flush-mounted device box, for use in masonry with an installation depth of at least 66 mm.

- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 2 entries up to Ø 14 mm
- 1 entry up to Ø 20 mm in the base

UP Flush-mounted device connection box 66, with device screws, airtight

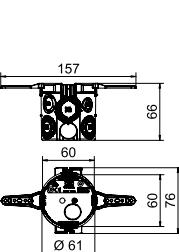


Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-GS-L	66	14	20/25 mm	Jet black/blue-grey	25	2.630	2003709

Flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 66 mm.

- 4 x 3 screw domes
- 2 pre-mounted device screws
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm
- 6 entries up to Ø 12 mm
- 2 entries up to Ø 12 mm in the base

UP Flush-mounted device connection box 66, with nail straps



Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 66-NL	66	13	20/25 mm	Jet black	25	2.650	2003716

Flush-mounted device box with nail straps, for use in masonry with an installation depth of at least 66 mm.

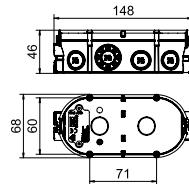
- 4 x 3 screw domes
- Connector with bayonet lock, couplable on both sides
- 6 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 2 entries up to Ø 14 mm
- 1 entry up to Ø 20 mm in the base



Flush-mounted device box 46, double version

Double flush-mounted device box, for use in masonry with an installation depth of at least 46 mm.

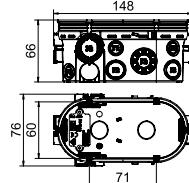
- Connector with bayonet lock, couplable on both sides
- 4 combination pipe entries of Ø 20 and 25 mm
- 6 entries up to Ø 20 mm
- 2 entries up to Ø 20 mm in the base



Flush-mounted device connection socket 66, double version

Double flush-mounted device box, for use in masonry with an installation depth of at least 66 mm.

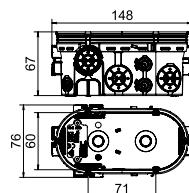
- With 4 connectors with bayonet lock, couplable on both sides
- 6 combination pipe entries of Ø 20 and 25 mm
- 8 entries up to Ø 20 mm
- 6 entries up to Ø 14 mm
- 2 entries up to Ø 20 mm in the base



Flush-mounted device connection socket 66, double version, airtight

Double flush-mounted device box, with airtight membrane entries, for use in masonry with an installation depth of at least 67 mm.

- With 4 couplable connectors with bayonet lock
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 14 entries up to Ø 11 mm
- 2 entries up to Ø 20 mm in the base



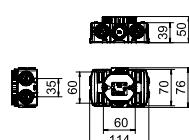
Electronics sockets



Flush-mounted electronics box 46, rectangular, with clamping area to the side

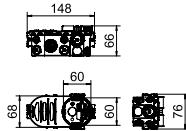
Flush-mounted electronic box, with side clamping space, rectangular shape, for use in masonry with an installation depth of at least 50 mm.

- Connector with bayonet lock, couplable on both sides
- 10 combination pipe entries of Ø 20 and 25 mm
- 2 entries up to Ø 20 mm in the base
- 4 entries for flat cables/ribbon cables
- 4 x 3 screw domes



Electronics sockets

UP Flush-mounted electronic box 66, additional clamping space

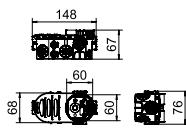


Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UE 66	66	22	20/25 mm	Jet black	10	6.150	2003726

Flush-mounted electronic box, with additional terminal area, for use in masonry with an installation depth of at least 66 mm.

- With 4 couplable connectors with bayonet lock
- 6 combination pipe entries of Ø 20 and 25 mm
- 8 entries up to Ø 20 mm
- 6 entries up to Ø 14 mm
- 2 entries up to Ø 20 mm in the base
- Partition for different voltages, with break-out openings
- 4 x 3 screw domes

UP Flush-mounted electronic box 66, airtight



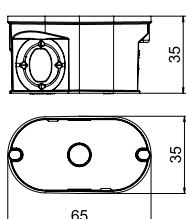
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UE 66-L	67	24	20/25 mm	Jet black / blue-grey	10	6.600	2003727

Flush-mounted electronic box, with additional clamping space and airtight membrane entries, for use in masonry with an installation depth of at least 67 mm.

- With 4 couplable connectors with bayonet lock
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries up to Ø 20 mm
- 14 entries up to Ø 11 mm
- 2 entries up to Ø 20 mm in the base
- Partition for different voltages, with break-out openings
- 4 x 3 screw domes

Wall luminaire connection sockets

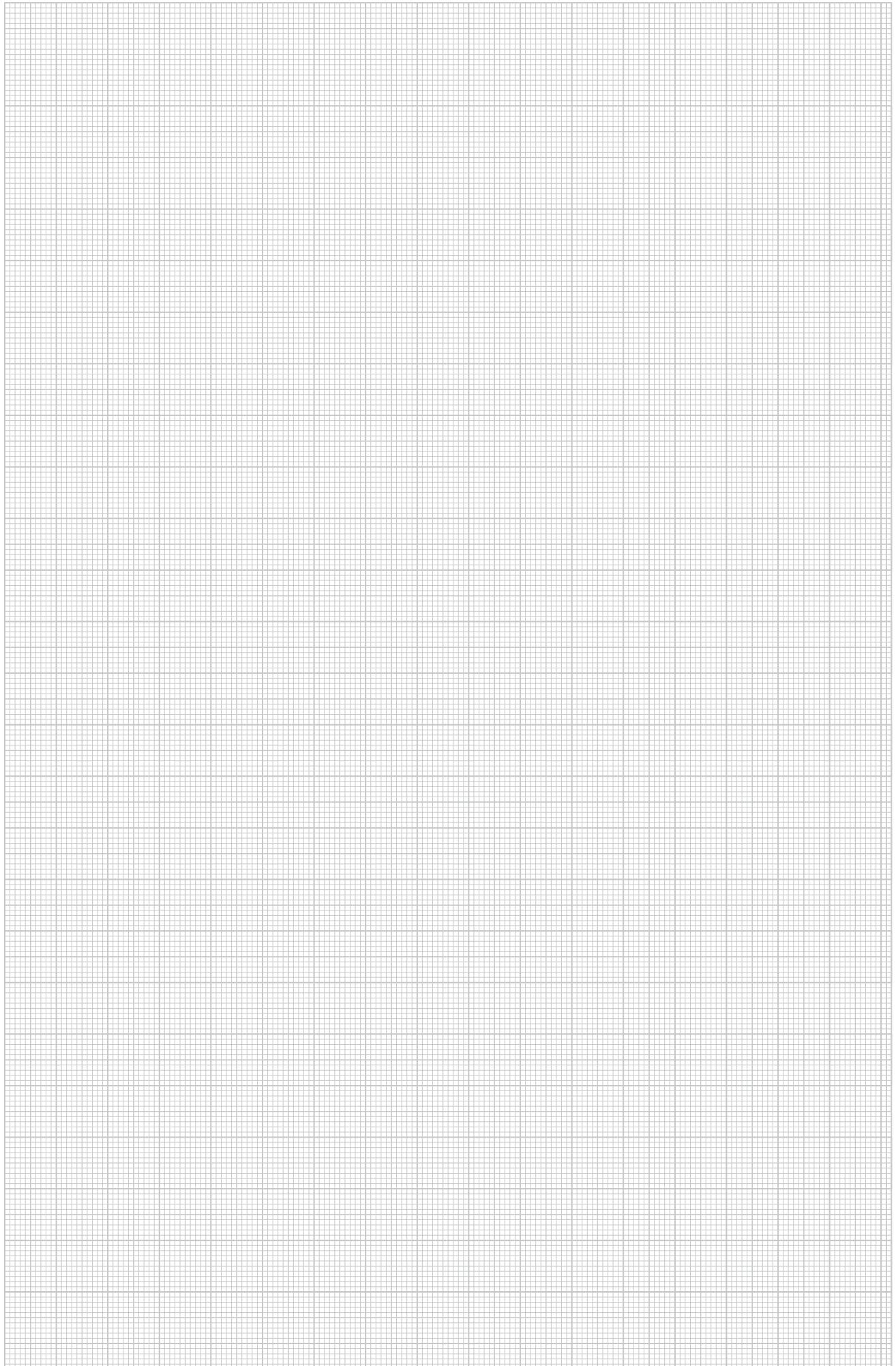
UP Flush-mounted outlet box



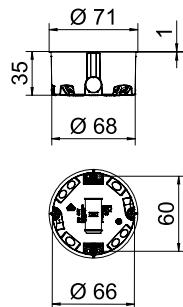
Type	Height mm	Number of entries	Pipe Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
UG 30-WA-D	35	4	20 mm	Jet black	25	1.150	2003732

Flush-mounted outlet box for single cable routing. Oval shape, for use in masonry with an installation depth of at least 35 mm.

- 2 entries up to Ø 20 mm
- 1 combination entry of Ø 10 and 20 mm
- 1 entry up to Ø 20 mm in the base



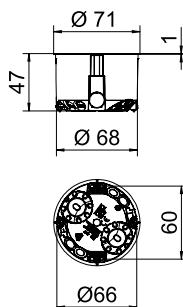
Cavity wall device box 35



Type	Milling hole Ø mm	plate thickness mm	Height mm	Number of entries	Suitable for	Pack Piece	Weight kg/100 pc.	Item no.	
HG 35	68	5-28	35	6	Mill plate	Orange	25	1.840	2003800

Cavity wall device box for use in cavity walls with an installation depth of at least 35 mm and a plate thickness of 5–28 mm.
 • 2 x 3 screw domes
 • Device screws, clamping straps
 • 4 entries for NYM cables 3 x 1.5 mm
 • 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
 • Connection with other device boxes of type HG 35 via connector, type ZH 11-V
 Delivery accessories: 10 x connectors, type ZH 11-V

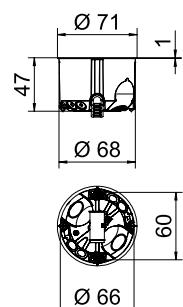
Cavity wall device box 47



Type	Milling hole Ø mm	plate thickness mm	Height mm	Number of entries	Suitable for	Pack Piece	Weight kg/100 pc.	Item no.	
HG 47	68	5-40	47	6	Mill plate	Orange	25	2.250	2003802

Cavity wall device box for use in cavity walls with an installation depth of at least 47 mm and a plate thickness of 5–40 mm.
 • 2 x 3 screw domes
 • Device screws, clamping straps
 • 2 combination pipe entries of Ø 20 and 25 mm
 • 2 entries for NYM cables 3 x 1.5 mm
 • 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
 • Connection with other device boxes via connector, type ZH 11-V
 Delivery accessories: 10 x connectors, type ZH 11-V

Cavity wall device box 47, airtight



Type	Milling hole Ø mm	plate thickness mm	Height mm	Number of entries	Suitable for	Pack Piece	Weight kg/100 pc.	Item no.	
HG 47-L	68	5-40	47	6	Airtight	Orange/grey	25	2.410	2003806

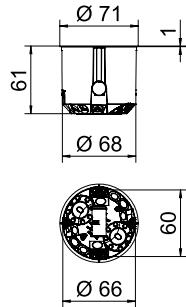
Cavity wall device box with airtight membrane entries for use in cavity walls with an installation depth of at least 47 mm and a plate thickness of 5–40 mm.
 • 2 x 3 screw domes
 • Device screws, clamping straps
 • 2 combination pipe entries of Ø 20 and 25 mm
 • 2 entries for NYM cables 3 x 1.5 mm
 • 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
 • Airtight connection with other device boxes via connector, type ZH 11-V
 Delivery accessories: 10 x connectors, type ZH 11-V



Type	Suitable for Milling plate hole Ø mm	Thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61	68	5-40	61	10	Orange	25	2.500	2003804

Cavity wall device box for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5-40 mm.

- 2 x 3 screw domes
 - Device screws, clamping straps
 - 2 combination pipe entries of Ø 20 and 25 mm
 - 4 entries for NYM cables 3 x 1.5 mm
 - 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
 - 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
 - Connection with other device boxes via connector, type ZH 11-V
- Delivery accessories: 10 x connectors, type ZH 11-V

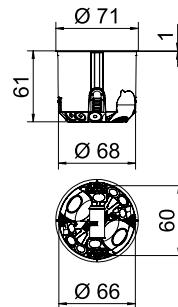


HW Cavity wall device connection box 61, air-tight

Type	Suitable for Milling plate hole Ø mm	Thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-L	68	5-40	61	10	Orange/grey	25	2.750	2003808

Cavity wall device box with airtight membrane entries for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5-40 mm.

- 2 x 3 screw domes
 - Device screws, clamping straps
 - 2 combination pipe entries of Ø 20 and 25 mm
 - 4 entries for NYM cables 3 x 1.5 mm
 - 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
 - 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
 - Airtight connection with other accessory sockets via connector, type ZH 11-V
- Delivery accessories: 10 x connectors, type ZH 11-V

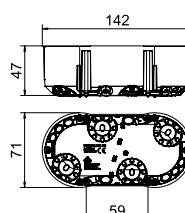


HW Cavity wall device box 47, double

Type	Suitable for Milling plate hole Ø mm	Thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 47-DV	68	5-40	47	12	Orange	10	4.230	2003822

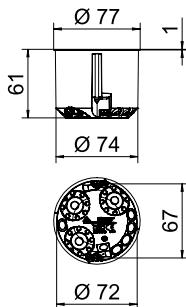
Double cavity wall device box for use in cavity walls with an installation depth of at least 47 mm and a plate thickness of 5 - 40 mm.

- 6 screw domes
- Device screws, clamping straps
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Connection with other device boxes via connector, type ZH 11-V



Accessory and connection sockets

HW Cavity wall device box 61, CEE/PERILEX

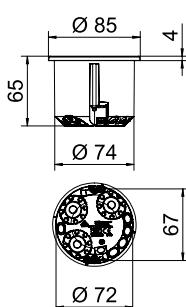


Type	Milling hole Ø mm	plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-AD	74	5-40	61	9	Orange	10	2.130	2003818

CEE/PERILEX cavity wall device box for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
 • 2 screw domes
 • Device screws, clamping straps
 • 3 combination pipe entries of Ø 20 and 25 mm
 • 3 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
 • 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
 • 1 entry for NYM cables 3 x 1.5 mm²



HW Cavity wall device box 61, CEE/PERILEX, with sealing ring

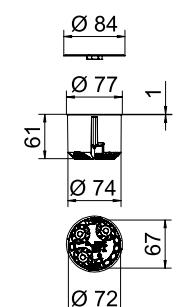


Type	Milling hole Ø mm	plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-AD-IP	74	5-40	61	9	Orange	10	3.290	2003819

CEE/PERILEX cavity wall device box with sealing ring, for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
 • 2 screw domes
 • Device screws, clamping straps
 • 3 combination pipe entries of Ø 20 and 25 mm
 • 3 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
 • 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
 • 1 entry for NYM cables 3 x 1.5 mm²



HW Cavity wall device box 61, CEE/PERILEX, with cover



Type	Milling hole Ø mm	plate thickness mm	Height mm	Number of entries	Colour	Pack Piece	Weight kg/100 pc.	Item no.
HG 61-AD-D	74	5-40	61	9	Orange	10	2.980	2003820

CEE/PERILEX cavity wall device box with cover, for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.
 • 2 screw domes
 • Device screws, clamping straps
 • 3 combination pipe entries of Ø 20 and 25 mm
 • 3 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
 • 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
 • 1 entry for NYM cables 3 x 1.5 mm²



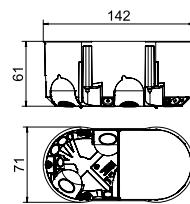


HW Cavity wall electronic box 61, airtight

Type	Suitable for						Pack	Weight	Item no.
	Milling	plate	Number	Height	of	entries			
hole Ø	thickness	mm	mm	mm	Colour	Piece	kg/100 pc.		
HE 61-DV-L	68	5-40	61	14	Orange/grey	10	6.190		2003826

Cavity wall electronic box with membrane entries, cover and partition, for use in cavity walls with an installation depth of at least 61 mm and a plate thickness of 5–40 mm.

- 6 screw domes
- Device screws, clamping straps
- 4 combination pipe entries of Ø 20 and 25 mm
- 4 entries for NYM cables 3 x 1.5 mm²
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- Airtight connection with other device boxes via connector, type ZH 11-V

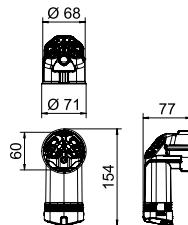


HW Cavity wall electronic box 74, airtight, with elastomer sack

Type	Suitable for						Pack	Weight	Item no.
	Milling	plate	Number	Height	of	entries			
hole Ø	thickness	mm	mm	mm	Colour	Piece	kg/100 pc.		
HE 74-L	68	5-35	8	75	Orange/grey	10	4.446		2003828

Cavity wall electronic box with membrane entries for additional wiring space, for use in cavity walls with an installation depth of at least 75 mm and a plate thickness of 5 - 35 mm.

- 2 x 3 screw domes
- Device screws, clamping straps
- 2 entries for NYM cables 3 x 1.5 mm²
- 2 entries for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 5 x 2.5 mm² or 7 x 1.5 mm²
- 2 combination pipe entries Ø 20 and 25 mm in the bottom area of the wiring space



Wall luminaire connection sockets

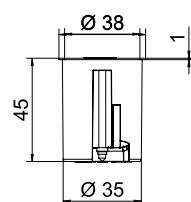


HW Cavity wall outlet box, airtight

Type	Suitable for						Pack	Weight	Item no.
	Milling	plate	Number	Height	of	entries			
hole Ø	thickness	mm	mm	mm	Colour	Piece	kg/100 pc.		
HG 45-WA-LD	35	5-40	45	2	Orange/grey	25	0.990		2003832

Airtight cavity wall outlet box for cavity walls, for the mounting of wall luminaires or loudspeakers With cover.

- 1 entry for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 1 entry for NYM cables 3 x 1.5 mm²

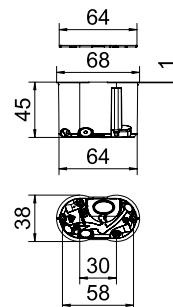


HW Cavity wall outlet box, double, airtight

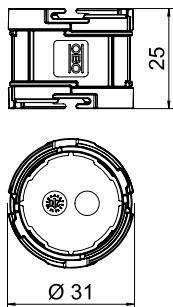
Type	Suitable for						Pack	Weight	Item no.
	Milling	plate	Number	Height	of	entries			
hole Ø	thickness	mm	mm	mm	Colour	Piece	kg/100 pc.		
HG 45-WAD-LD	35	5-40	45	4	Orange/grey	25	1.930		2003834

Airtight, double wall outlet box for cavity walls, for the mounting of wall luminaires or loudspeakers With cover.

- 1 entry for NYM cables 3 x 2.5 mm² or 5 x 1.5 mm²
- 2 entries for NYM cables 3 x 1.5 mm²
- 1 combination pipe entry for Ø 20 and 25 mm



UP Distance connector

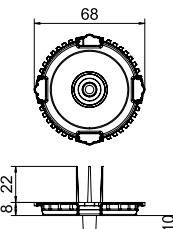


Type	Length mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 20-AS	25	Signal red	25	0.350	2003746

Distance connector with bayonet lock for the stable combination of multiple flush-mounted device boxes. To expand the standard centre spacing of 71 mm by 20 mm.



UP Signal cover flush-mounted boxes, single

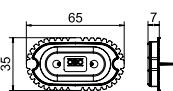


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 60-SD	Signal red	50	0.380	2003760

Cover as protection of flush-mounted boxes during plastering. Red, with signal bristles for determining position, centring for drill bit, straps for pulling off.



UP Signal cover, flush-mounted outlet box

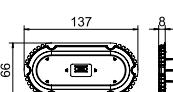


Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 30-SDW	65x35mm	Signal red	25	0.220	2003768

Cover for flush-mounted outlet box as protection during plastering. Red, with signal bristles for determining position.



UP Signal cover for flush-mounted box, double



Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 60-SSD	2x Ø60mm	Signal red	25	1.070	2003762

Cover as protection of double flush-mounted box during plastering. Red, with signal bristles for determining position.

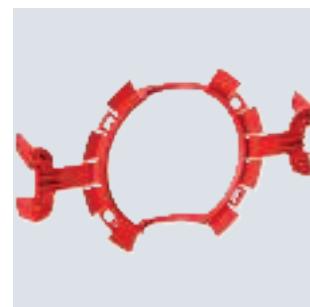
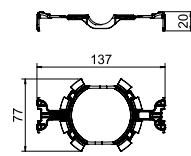




Type	Dia- meter mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 60-QF	60	Signal red	25	0.570	2003740

Quick fixing through clamping of flush-mounted device boxes Ø 60 mm, instead of plastering or sticking.

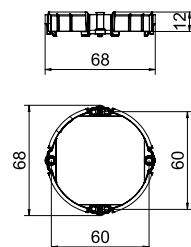
For openings with a diameter of 80 mm. Not suitable for the use with thin plaster.



UP Plaster compensation ring 12 mm, flush-mounted device box

Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 12-PR	Ø60mm, H12mm	Signal red	25	0.650	2003742

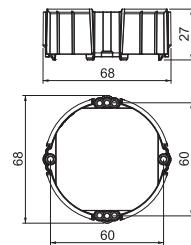
Plaster compensation ring for Ø 60 mm flush-mounted box, to screw on.



UP Plaster compensation ring 24 mm, flush-mounted device box

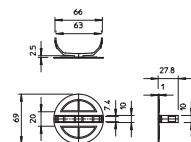
Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZU 24-PR	Ø60mm, H24mm	Signal red	25	1.020	2003744

Plaster compensation ring for Ø 60 mm flush-mounted box, to screw on.

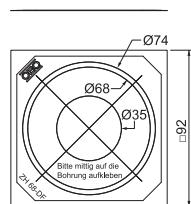


Type	Ø Max.	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-FD	72	White	25	0.560	2003749

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



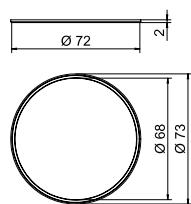
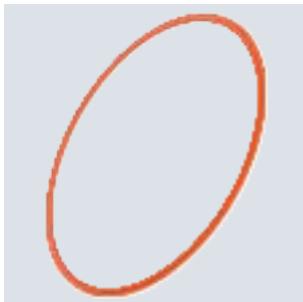
Sealing foil, cavity wall device box



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 68-DF	Transparent	10	0.500	2003850

Foil for sealing of installation openings that are cut too large or broken out.

HW Compensation ring

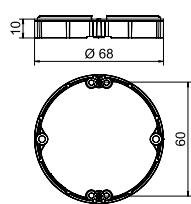


Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 68-AR	Ø68mm	Orange	10	0.050	2003840

Compensation ring for cavity wall box Ø 68 mm, to compensate for large or unround drill holes.



HW Compensation ring 10

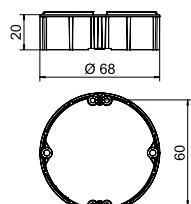


Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 10-AR	Ø68mm, H10mm	Orange	25	0.360	2003842

Compensation ring for cavity wall device box Ø 68 mm, to screw on.



HW Compensation ring 20



Type	Dimension	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 20-AR	Ø68mm, H20mm	Orange	25	0.580	2003844

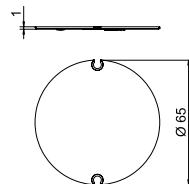
Compensation ring for cavity wall device box Ø 68 mm, to screw on.





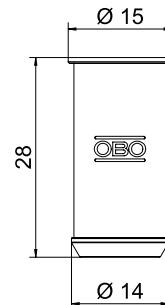
Type	Ø mm	Height mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 60-ID	65	1	White	25	1.130	2003848

Inner fitting cover for cavity wall device box, to screw on.



Type	Dia-meter mm	Length mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 11V	14.5	28	Orange	10	0.098	2003846

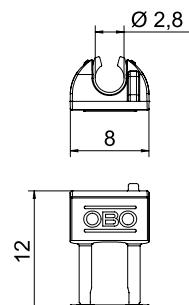
Connector to connect cavity wall boxes and pass cable wires through. Airtight in conjunction with airtight cavity wall boxes.



HW Fastening element, thin panelling

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZH 12-DB	Orange	50	0.012	2003854

Fastening element to extend the tensioning area for thin panelling, suitable for panelling thicknesses of up to 0.2 mm.

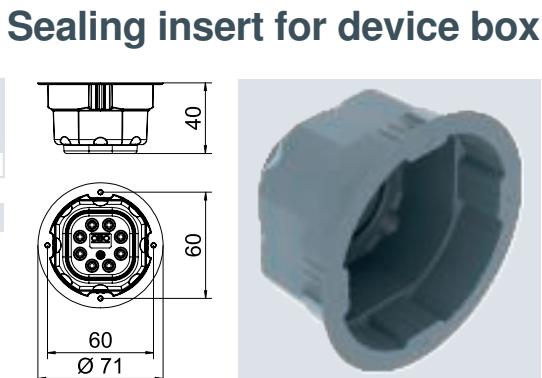


Accessories, general

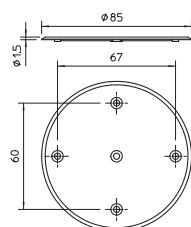


Type	Number of entries	Type of entry	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-DE	8	8xØ1mm to 4mm	Grey	10	1.200	2003719

Sealing insert for flush-mounted and cavity wall boxes, to seal against ingress of air.



Universal cover

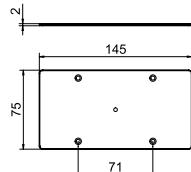


Type	Ø Max.	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-D	84	White	25	0.850	2003748

Universal cover for flush-mounted and cavity wall box. With drill holes, hole spacing 60 mm for all device boxes, retractable screws. Roughened surface.



Cover, double, rectangular

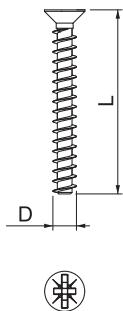


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 60-DV	White	5	1.780	2003823

Rectangular cover for double flush-mounted and cavity wall box. With drill holes, retractable screws.



Device screw for flush-mounted/cavity wall boxes



Type	Dimension	Pack Piece	Weight kg/100 pc.	Item no.
ZA 15-GS-S	Ø3,2mm,15mm	50	0.055	2003268
ZA 25-GS-S	Ø3,2mm,25mm	50	0.087	2003271
ZA 40-GS-S	Ø3,2mm,40mm	50	0.135	2003279

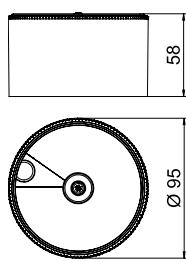
Device screw for mounting devices in flush-mounted or cavity wall device boxes.

St G

Device screws, economy pack for flush-mounted/ cavity wall boxes

Type	Pack Piece	Weight kg/100 pc.	Item no.
ZA 100-GS-VB	1	37.100	2003280

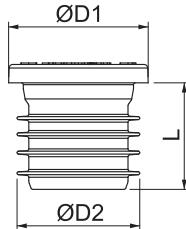
Economy box with device screws Ø 3.2 mm in 15, 25 and 40 mm lengths, for mounting devices in flush-mounted or cavity wall device boxes.



TPE
CE 850

Type	Dim. D1 mm	Dim. D2 mm	Dim. L mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA 20-VS	19	15	17	Grey	25	0.170	2003737
ZA 25-VS	24	19	18	Grey	25	0.250	2003738

Sealing plug to close empty pipes.

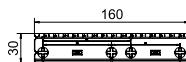


PP

Drilling template for flush-mounted and cavity wall boxes

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
ZA BS	Orange	10	0.900	2003890

Drilling template for flush-mounted and cavity wall boxes. To draw on the fastening spacings of 71 or 91 mm. With marking aids for centre-punching and notching for alignment, e.g. to chalk line markings.



Terminals

Terminals

Terminals



Screwless terminals

188



Screw terminals

192



Phase terminals

196



Screwless universal terminal

This is the easiest way to connect or disconnect rigid cables and strands: OBO's new screwless connection terminals for flexible and rigid cables.

- Simple connection and disconnection
- Test opening
- Simple checking of the stripping length
- For flexible and rigid conductors
- Rigid conductors can be inserted without even handling the release lever
- Connection cross-sections of 0.2 to 2.5 mm²
- Tested to EN 60998



PC



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 225 FL	Transparent	100	0.200	2054450

Tested according to EN 60998.

Screwless terminal to connect electrical conductors. The type of conductor can either be flexible, multi-wire or rigid.

If rigid conductors are used, an opening of the release lever is not necessary. The conductor can be plugged into the terminal directly.

To extract the conductors, simply open the release lever. The strand can then be easily pulled-out.

Nominal cross-section:

2 x 0.2 - 2.5 mm² multi-wire cables / single-wire conductors

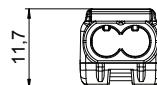
Rated voltage 450 V.

Rated current 24 A.

Stripping length: 9 mm (+1 mm).

Inspection opening: Phase tester and testing pin (max. Ø 2 mm), very easily accessible on the top side of the terminal

Max. approved ambient temperature according to EN 60998: 85 °C.



PC



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 325 FL	Transparent	75	0.270	2054454

Tested according to EN 60998.

Screwless terminal to connect electrical conductors. The type of conductor can either be flexible, multi-wire or rigid.

If rigid conductors are used, an opening of the release lever is not necessary. The conductor can be plugged into the terminal directly.

To extract the conductors, simply open the release lever. The strand can then be easily pulled-out.

Nominal cross-section:

3 x 0.2 - 2.5 mm² multi-wire cables / single-wire conductors

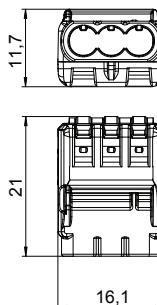
Rated voltage 450 V.

Rated current 24 A.

Stripping length: 9 mm (+1 mm).

Inspection opening: Phase tester and testing pin (max. Ø 2 mm), very easily accessible on the top side of the terminal

Max. approved ambient temperature according to EN 60998: 85 °C.



PC



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 525 FL	Transparent	50	0.410	2054458

Tested according to EN 60998.

Screwless terminal to connect electrical conductors. The type of conductor can either be flexible, multi-wire or rigid.

If rigid conductors are used, an opening of the release lever is not necessary. The conductor can be plugged into the terminal directly.

To extract the conductors, simply open the release lever. The strand can then be easily pulled-out.

Nominal cross-section:

5 x 0.2 - 2.5 mm² multi-wire cables / single-wire conductors

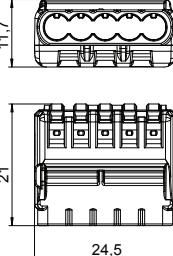
Rated voltage 450 V.

Rated current 24 A.

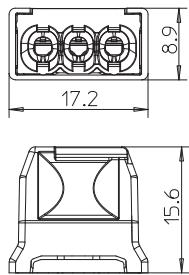
Stripping length: 9 mm (+1 mm).

Inspection opening: Phase tester and testing pin (max. Ø 2 mm), very easily accessible on the top side of the terminal

Max. approved ambient temperature according to EN 60998: 85 °C.



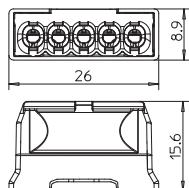
Screwless terminal, 3-pin



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 325 LGR	Light grey	100	0.135	2054485

Screwless terminal to connect single-strand cables.
Nominal cross-section:
3 x 0.5 mm² to 2.5 mm² single-wire conductors
3 x 1.5 mm² to 2.5 mm² rigid, multi-wire conductors
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).

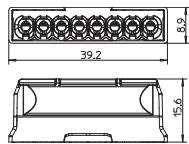
Screwless terminal, 5-pin



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 525 LGR	Light grey	100	0.300	2054507

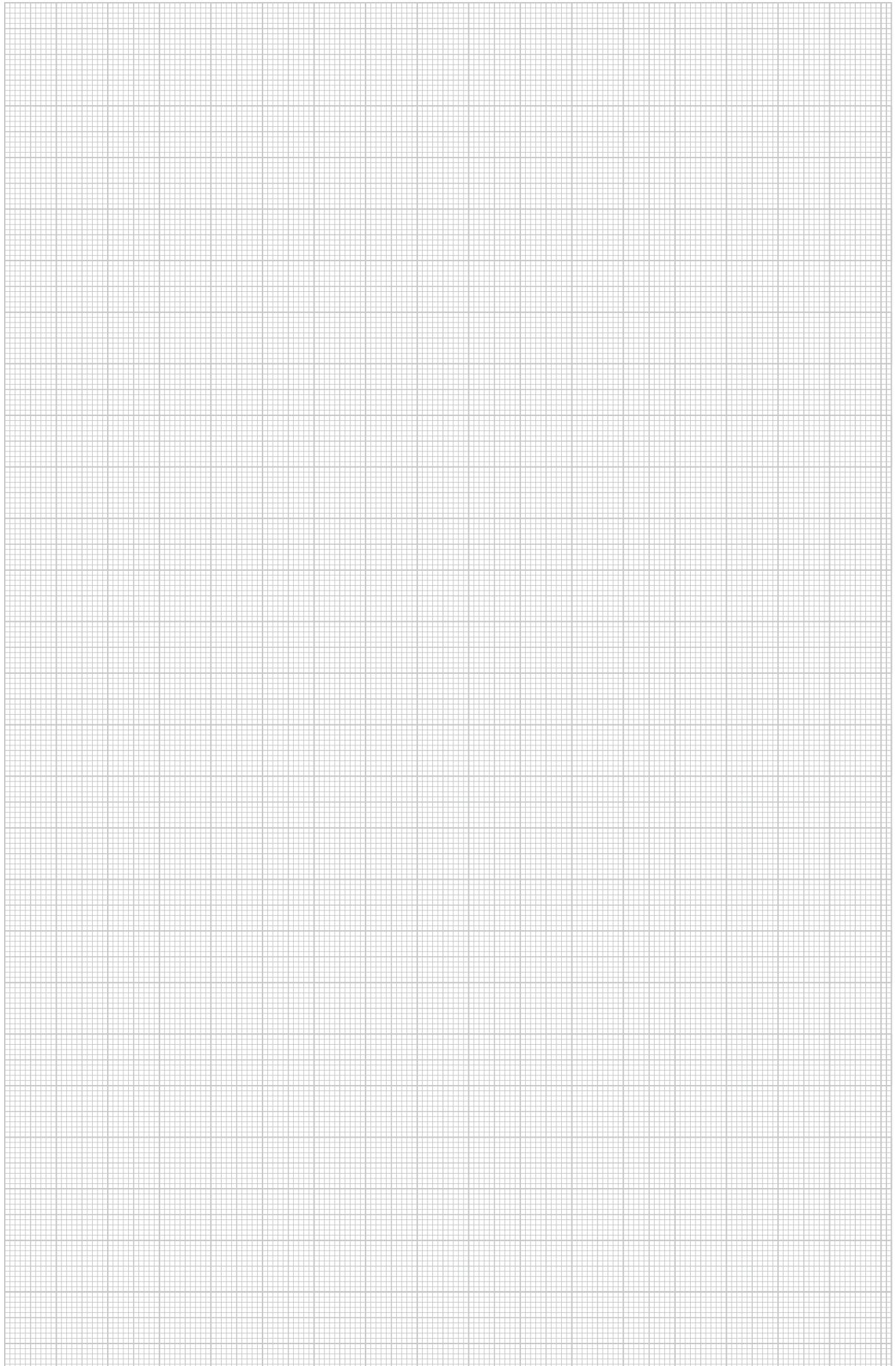
Screwless terminal to connect single-strand cables.
Nominal cross-section:
5 x 0.5 mm² to 2.5 mm² single-wire cable
5 x 1.5 mm² to 2.5 mm² rigid, multi-wire cable
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).

Screwless terminal, 8-pin



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
61 825 LGR	Light grey	50	0.490	2054523

Screwless terminal to connect single-strand cables.
Nominal cross-section:
8 x 0.5 mm² to 2.5 mm² single-wire cables
8 x 1.5 mm² to 2.5 mm² rigid, multi-wire cables
Rated voltage 450 V.
Rated current 24 A.
Stripping length: 8–9 mm.
Inspection opening: phase tester and testing pin (max. Ø 2 mm).





Terminal strips

The branch terminal/terminal strip consists of an insulating plastic housing that serves as electric shock protection for the steel/brass terminal insert. Thus no voltage-carrying parts can be touched if the component is used correctly. The ends of wire strands must be inserted with wire end sleeves to ensure no mechanical damage can occur and rule out the risk of damage to individual strands from the clamping screw as it turns.



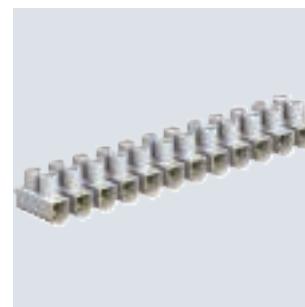
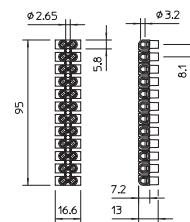
- Tested to EN 60998
- Brass terminals, bolts made of electrogalvanised steel
- 12-pin strips, separable into individual terminals through "twist'n'pull"
- Captive upwards screw
- Max. approved ambient temperature to EN 60998: -5 to +80 °C
- Nominal cross-section 4–35 mm²



4 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
72 CE WS/EKL 0 S	White	500	10	1.800	2056070

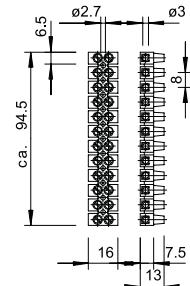
Tested according to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pin, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: -5 to +80 °C.
Nominal cross-section 4 mm².
Nominal voltage 450 V.
Nominal current 32 A.
Max. attachment each side: 4 mm² single-wire or 2.5 mm² multi-wire/flexible.



4 mm² series connector, polyamide

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
72 VDE/EKL 0E PA	Transparent	500	10	2.000	2055929

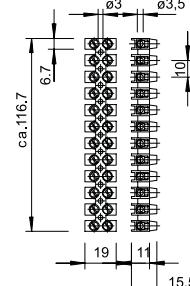
Brass terminals, steel screws, galvanised and blue passivated, 12-pin, individual terminals detachable.
Captive upwards screw.
Nominal cross-section 4 mm².
Rated voltage 450 V.
Nominal current 32 A.
Max. attachment each side: 4 mm² single-wire or 2.5 mm² multi-wire.
Maximum approved ambient temperature to EN 60998: -5 to +85 °C.



Terminal strips, 4 mm², wire protection clamp, polyamide

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
74 D/EKL 1BEF2 D	Transparent	200	10	3.680	2056178

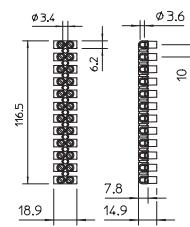
With wire protection clamp.
Tested according to EN 60998.
Brass terminals, steel screws, galvanised and blue passivated, 12-pin, individual terminals detachable.
Captive upwards screw.
Nominal cross-section 4 mm².
Nominal voltage 450 V.
Nominal current 32 A.
Max. attachment each side: 4 mm² single-wire or 4 mm² fine-wire.
Maximum approved ambient temperature to EN 60998: -5 to +85 °C.

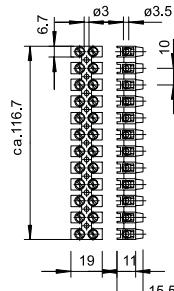
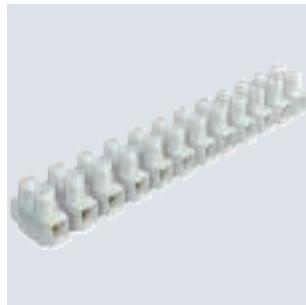


6 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
74 CE WS/EKL 1 S	White	200	10	2.600	2056224

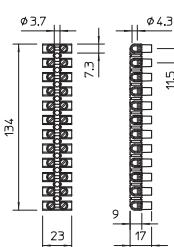
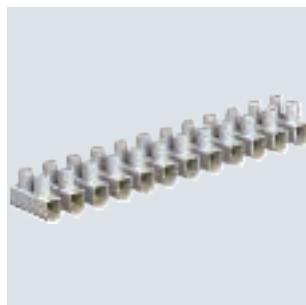
Tested according to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pin, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: -5 to +80 °C.
Nominal cross-section 6 mm².
Nominal voltage 450 V.
Nominal current 41 A.
Max. connections on each side: 6 mm² single-wire or 4 mm² fine-wire.



6 mm² series connectors, polyamide

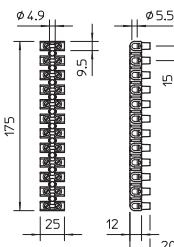
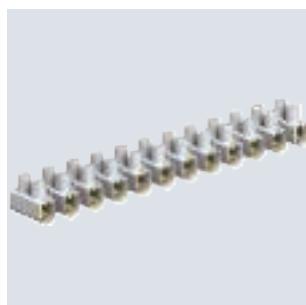
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
74 VDE/EKL 1BEF2	Transparent	200	10	3.580	2056143

Tested according to EN 60998.
Brass terminals, steel screws, galvanised and blue passivated, 12-pin, individual terminals detachable.
Captive upwards screw.
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.
Maximum approved ambient temperature to EN 60998: -5 to +85 °C.

10 mm² series connectors, polypropylene

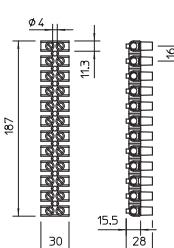
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
76 CE WS/EKL 2 S	White	100	10	4.300	2056372

Tested to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pole, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: -5 to +80 °C.
Nominal cross-section 10 mm².
Nominal voltage 450 V.
Nominal current 57 A.
Max. attachment each side: 10 mm² single-wire or 6 mm² multi-wire/flexible.

16 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
78 CE WS/EKL 3 S	White	100	10	7.500	2056550

Tested to EN 60998.
Steel terminals, steel screws, electrogalvanised, 12-pole, individual terminals detachable from strips using "twist'n'pull".
Captive upwards screw.
Max. approved ambient temperature to EN 60998: -5 to +80 °C.
Nominal cross-section 16 mm².
Nominal voltage 450 V.
Nominal current 76 A.
Max. attachment each side: 16 mm² single-wire or 10 mm² multi-wire or 6 mm² flexible.

25 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
79 CE WS/EKL 4BE	White	50	10	11.200	2056577

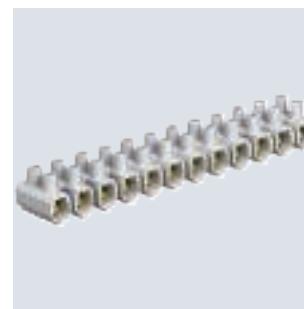
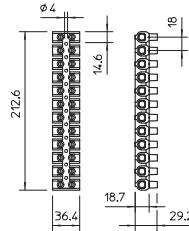
Tested to EN 60998.
Brass terminals, steel screws, electrogalvanised and transparently passivated, 12-pole, individual terminals detachable from strips.
Captive upwards screw.
Max. approved ambient temperature to EN 60998: -5 to +80 °C.
Nominal cross-section 25 mm².
Nominal voltage 750 V.
Nominal current 101 A.
Max. attachment each side: 25 mm² multi-wire or 16 mm² fine-wire.



35 mm² series connectors, polypropylene

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
80 CE WS/EKL 5E	White	50	10	17.400	2056590

Tested to EN 60998.
Brass terminals, steel screws, electrogalvanised, 12-pole, individual terminals detachable from strips.
Captive upwards screw.
Max. approved ambient temperature to EN 60998: -5 to +80 °C.
Nominal cross-section 35 mm².
Nominal voltage 750 V.
Nominal current 125 A.
Max. attachment each side: 35 mm² multi-wire or 25 mm² fine-wire.

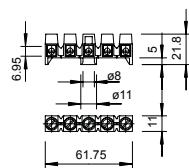


Terminal strips



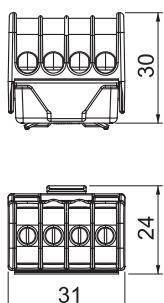
Type	Colour	No. of terminals	Nominal cross-section mm ²	Nom. V	Pack Piece	Weight kg/100 pc.	Item no.
689	Natural	5	0.8-2.5	660	50	1.502	2017342

Brass terminal block, nickel plated, steel screws, electrogalvanised and transparently passivated, nominal cross section 0.8 - 2.5 mm², nominal voltage 660 V, 5-pin, with socket terminals, max. connectable cross sections per terminal: 4 x 2.5 mm², 5 x 1.5 mm² or 6 x 1 mm², unused pins can be disconnected and used as individual terminals.



Protective conductor terminals

Protective conductor terminal, with screw contacts, 4 terminals

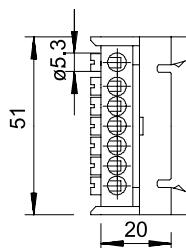


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBS4x16GN	Green	10	1.980	2016250

Protective conductor connection terminal strip, brass, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pole, with terminal sockets, max. connectable conductors per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².



Protection conductor terminals, with screw contacts, 7 terminals

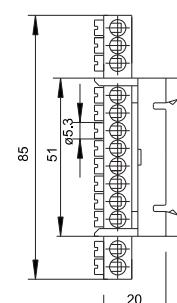


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 S 7x16 GN	Green	10	2.900	2054019

Protective conductor connection terminal with 7 terminals up to 16 mm². Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 x 7.5 mm hat profile rails to DIN EN 60715 (previously DIN EN 50022) (transverse) or flat rails 10 x 2–2.5 mm (lengthwise).



Protection conductor terminals, with screw contacts, 12 terminals



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 S 12x16 GN	Green	10	4.200	2054094

Protective conductor connection terminal with 7 terminals up to 16 mm². Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 x 7.5 mm hat profile rails to DIN EN 60715 (previously DIN EN 50022) (transverse) or flat rails 10 x 2–2.5 mm (lengthwise).

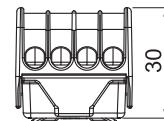




Neutral conductor terminal, with screw contacts, 4 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
KL-DBN4x16BL	Blue	10	1.980	2016255

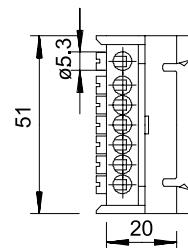
Neutral conductor connection terminal, brass, steel screws, electrogalvanised and transparently passivated, nominal cross-section 6 ÷ 16 mm², nominal voltage 400 V, 1-pole, with terminal sockets, max. connectable conductors per terminal 4 x 16 mm², 4 x 10 mm², 8 x 6 mm² or 12 x 4 mm².



Neutral conductor terminals, with screw contacts, 7 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 N 7x16 BL	Blue	10	2.900	2054000

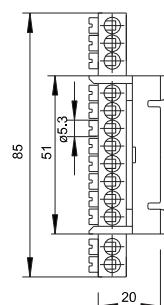
Neutral conductor connection terminal with 7 terminals up to 16 mm². Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 mm hat rails to DIN EN 60715 - previously DIN EN 50022 - (transverse) or flat rails 10 x 2-2.5 mm (lengthwise).



Neutral conductor terminals, with screw contacts, 12 terminals

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
60 N 12x16 BL	Blue	10	4.200	2054086

Neutral conductor connection terminal with 12 terminals up to 16 mm². Clamping rail, brass, steel screws, electrogalvanised and transparently passivated, for snapping onto 35 mm hat rails to DIN EN 60715 - previously DIN EN 50022 - (transverse) or flat rails 10 x 2-2.5 mm (lengthwise).



Cable glands

Cable glands

Cable glands

	Cap nut cable glands	200
	Cone cable glands	226
	Cable glands	230
	Individual parts	232
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	Accessories, cable glands	246



Cable glands V-TEC VM and V-TEC VM L

The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO.

- Fast and convenient means of cable entry for junction boxes and housings
- With the integrated sealing lip and the special OBO lamella technology, protection class IP68 is achieved
- Strain relief and tightness have been tested to DIN EN 62444
- The connecting threads are metric and are therefore suitable for universal use
- Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet
- Temperature range: -20°C to $+65^{\circ}\text{C}$



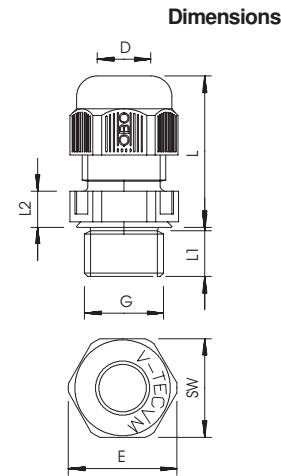
Cap nut cable gland, metric thread, light grey

Type	Colour	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
		Piece				
V-TEC VM12 LGR	Light grey	500		50	0.318	2022862
V-TEC VM16 LGR	Light grey	500		50	0.638	2022864
V-TEC VM20 LGR	Light grey	600		50	0.856	2022866
V-TEC VM25 LGR	Light grey	300		25	1.360	2022868
V-TEC VM32 LGR	Light grey	240		20	2.235	2022870
V-TEC VM40 LGR	Light grey	120		10	3.467	2022872
V-TEC VM50 LGR	Light grey	60		5	5.466	2022874
V-TEC VM63 LGR	Light grey	60		5	8.306	2022876



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. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads of the cable glands are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking. Applications: from private housing with junction boxes up to industrial applications in the distributor cabinet. Temperature range: -20 °C to +65 °C.

Type	Thread	Sealing range		Dim. D		Dim. SW		Dim. E		Dim. min.		Dim. max.		Dim. L1		Dim. L2		In-stal-lation torque	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	Nm	
V-TEC VM12 LGR	M12x1,5	3.5-7	15	16.5	18.5	23.5	8	5	5	2									
V-TEC VM16 LGR	M16x1,5	4.5-10	20	22	21.5	23.5	8	5	5	2									
V-TEC VM20 LGR	M20x1,5	6-13	24	27	23.5	30.5	9	5	5	3.8									
V-TEC VM25 LGR	M25x1,5	9-17	29	32	26	35	10	6	5										
V-TEC VM32 LGR	M32x1,5	15-21	36	41	29	40	11	6	7.5										
V-TEC VM40 LGR	M40x1,5	16-28	44	50	36	46	11	7	10										
V-TEC VM50 LGR	M50x1,5	23-35	54	60	43	52	12	8	12										
V-TEC VM63 LGR	M63x1,5	36-48	67	75	48	60	12	9	15										



Cap nut cable gland, plastic metric

Cap nut cable gland, metric thread, black



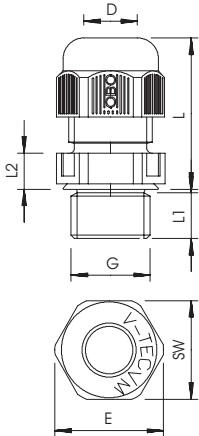
Type	Colour	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
		Piece	Box			
V-TEC VM12 SW	Black	500		50	0.318	2022883
V-TEC VM16 SW	Black	500		50	0.638	2022885
V-TEC VM20 SW	Black	600		50	0.856	2022887
V-TEC VM25 SW	Black	300		25	1.360	2022889
V-TEC VM32 SW	Black	240		20	2.230	2022891
V-TEC VM40 SW	Black	120		10	3.467	2022893
V-TEC VM50 SW	Black	60		5	5.466	2022895
V-TEC VM63 SW	Black	60		5	8.306	2022897

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. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connecting threads of the cable glands are metric or PG and are therefore suitable for universal use. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: from private housing with junction boxes up to industrial applications in the distributor cabinet.

Temperature range: -20 °C to +65 °C.

Dimensions



Type	Thread	Sealing range		Dim. D	Dim. SW	Dim. E	Dim. L min.	Dim. max.	Dim. L1	Dim. L2	In-stallation torque
		mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm
V-TEC VM12 SW	M12x1,5	3.5-7	15	16.5	18.5	23.5	8	5	5	2	
V-TEC VM16 SW	M16x1,5	4.5-10	20	22	21.5	29	8	5	5	2	
V-TEC VM20 SW	M20x1,5	6-13	24	27	23.5	30.5	9	5	5	3.8	
V-TEC VM25 SW	M25x1,5	9-17	29	32	26	35	10	6	5		
V-TEC VM32 SW	M32x1,5	15-21	36	41	29	40	11	6	7.5		
V-TEC VM40 SW	M40x1,5	16-28	44	50	36	46	11	7	10		
V-TEC VM50 SW	M50x1,5	23-35	54	60	43	52	12	8	12		
V-TEC VM63 SW	M63x1,5	36-48	67	75	48	60	12	9	15		



Cap nut cable gland, metric thread, set with lock nut, light grey

Type	Colour	Piece	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
			50	0.337			
V-TEC VM12+ LGR	Light grey	600			50	0.337	2022762
V-TEC VM16+ LGR	Light grey	500			50	0.795	2022764
V-TEC VM20+ LGR	Light grey	600			50	1.106	2022766
V-TEC VM25+ LGR	Light grey	300			25	1.710	2022768
V-TEC VM32+ LGR	Light grey	240			20	2.840	2022770
V-TEC VM40+ LGR	Light grey	120			10	5.150	2022772
V-TEC VM50+ LGR	Light grey	60			5	6.356	2022774
V-TEC VM63+ LGR	Light grey	60			5	10.136	2022776

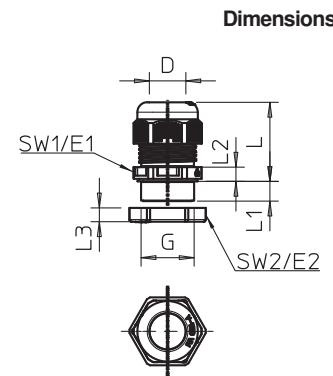


The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slot technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.

Temperature range: -20 °C to +65 °C.

Type	Thread	Sealing range		Dim. SW		Dim. E1		Dim. E2		Dim. L min.		Dim. max.		Dim. L1		Dim. L2		Dim. L3		In-stal-
		D	1	SW	2	E1	E2	L	min.	max.	L1	L2	L3	lotion						
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm						
V-TEC VM12+ LGR	M12x1,5	3.5-7	15	17	16.5	19	18.5	23.5	8	5	5	5	2							
V-TEC VM16+ LGR	M16x1,5	4.5-10	20	22	22	25	21.5	23.5	8	5	5	5	2							
V-TEC VM20+ LGR	M20x1,5	6-13	24	24	27	27	23.5	30.5	9	5	6	6	3.8							
V-TEC VM25+ LGR	M25x1,5	9-17	29	32	32	36	26	35	10	6	6.5	6.5	5							
V-TEC VM32+ LGR	M32x1,5	15-21	36	41	41	46	29	40	11	6	7	7	7.5							
V-TEC VM40+ LGR	M40x1,5	16-28	44	50	50	56	36	46	11	7	7.5	7.5	10							
V-TEC VM50+ LGR	M50x1,5	23-35	54	60	60	68	43	52	12	8	8	8	12							
V-TEC VM63+ LGR	M63x1,5	36-48	68	75	75	83	48	60	12	9	8.5	8.5	15							



Cap nut cable gland, metric thread with screw plug, light grey



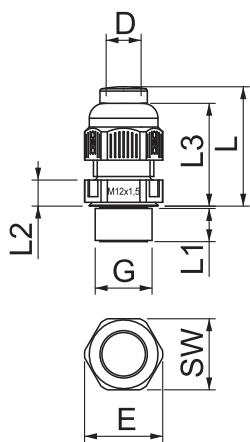
Type	Colour	Piece	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
			50	50			
V-TEC VM12VS LGR	Light grey	500			50	0.360	2023040
V-TEC VM16VS LGR	Light grey	500			50	0.730	2023042
V-TEC VM20VS LGR	Light grey	600			50	0.990	2023044
V-TEC VM25VS LGR	Light grey	300			25	1.550	2023046
V-TEC VM32VS LGR	Light grey	240			20	2.480	2023048

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. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.

Temperature range: -20 °C to +65 °C.

Dimensions



Type	Thread	Sealing range		Dim. D		Dim. SW		Dim. E		Dim. min.		Dim. max.		Dim. L1		Dim. L2	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
V-TEC VM12VS LGR	M12x1.5	3.5-7	15	16.5	21.5	23.5	8	5									
V-TEC VM16VS LGR	M16x1.5	4.5-10	20	22	25.5	23.5	8	5									
V-TEC VM20VS LGR	M20x1.5	6-13	24	27	28	30.5	9	5									
V-TEC VM25VS LGR	M25x1.5	9-17	29	32	30.5	35	10	6									
V-TEC VM32VS LGR	M32x1.5	15-21	36	41	29	40	11	6									





Cap nut cable gland, metric thread, UV-resistant, light grey

Type	Colour	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
		Piece	Piece			
V-TEC VM12UV LGR	Light grey	500		50	0.319	2022900
V-TEC VM16UV LGR	Light grey	500		50	0.590	2022901
V-TEC VM20UV LGR	Light grey	600		50	0.590	2022902
V-TEC VM25UV LGR	Light grey	300		25	1.360	2022903
V-TEC VM32UV LGR	Light grey	240		20	2.235	2022904
V-TEC VM40UV LGR	Light grey	120		10	3.496	2022905
V-TEC VM50UV LGR	Light grey	60		5	5.480	2022906
V-TEC VM63UV LGR	Light grey	60		5	8.328	2022907

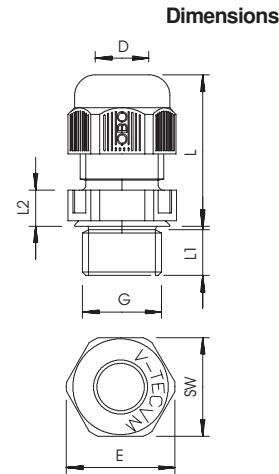


The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.

Temperature range: -20 °C to +65 °C.

Type	Thread	Dim. SW		Dim. E		Dim. L min.		Dim. max.		Dim. L1		Dim. L2		
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
		M12x1,5	15	16,5	18,5	23,5	8	5	M16x1,5	20	22	21,5	23,5	8
V-TEC VM12UV LGR	M12x1,5	15	16,5	18,5	23,5	8	5							
V-TEC VM16UV LGR	M16x1,5	20	22	21,5	23,5	8	5							
V-TEC VM20UV LGR	M20x1,5	24	27	23,5	30,5	9	5							
V-TEC VM25UV LGR	M25x1,5	29	32	26	35	10	6							
V-TEC VM32UV LGR	M32x1,5	36	41	29	40	11	6							
V-TEC VM40UV LGR	M40x1,5	44	50	36	46	11	7							
V-TEC VM50UV LGR	M50x1,5	54	54	43	52	12	8							
V-TEC VM63UV LGR	M63x1,5	67	75	48	60	12	9							



Cap nut cable gland, metric thread, long, light grey



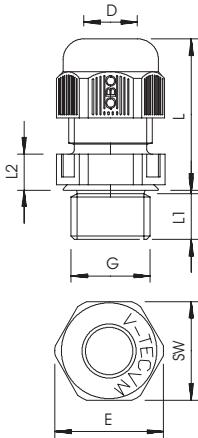
Type	Colour	Piece	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
			50	50			
V-TEC VM L12 LGR	Light grey	500			50	0.392	2022943
V-TEC VM L16 LGR	Light grey	500			50	0.727	2022945
V-TEC VM L20 LGR	Light grey	600			50	0.883	2022947
V-TEC VM L25 LGR	Light grey	300			25	1.597	2022949
V-TEC VM L32 LGR	Light grey	240			20	2.047	2022951
V-TEC VM L40 LGR	Light grey	120			10	3.168	2022953
V-TEC VM L50 LGR	Light grey	60			5	5.010	2022955
V-TEC VM L63 LGR	Light grey	60			5	7.390	2022957

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. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.

Temperature range: -20 °C to +65 °C.

Dimensions



Type	Thread	Sealing range	Dim. L			Dim. L			In-sta-	
			D	SW	E	min.	max.	L1	L2	lution torque
V-TEC VM L12 LGR	M12x1,5	3.5-7	15	16.5	17.5	24	15	5	2	
V-TEC VM L16 LGR	M16x1,5	4.5-10	20	22	20.5	29.5	15	5	2.5	
V-TEC VM L20 LGR	M20x1,5	6-13	24	27	22.5	32.5	15	5	3.75	
V-TEC VM L25 LGR	M25x1,5	9-17	29	32	25.5	36	15	6	5	
V-TEC VM L32 LGR	M32x1,5	15-21	36	41	28	40	15	6	7.5	
V-TEC VM L40 LGR	M40x1,5	16-28	44	50	32	46	18	7	10	
V-TEC VM L50 LGR	M50x1,5	23-35	54	60	37.5	54.3	18	8	12	
V-TEC VM L63 LGR	M63x1,5	36-48	68	75	41.5	60.3	18	9	12	



Cap nut cable gland, metric thread, long, black

Type	Colour	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
		Piece	Piece			
V-TEC VM L12 SW	Black	500		50	0.392	2022964
V-TEC VM L16 SW	Black	500		50	0.727	2022966
V-TEC VM L20 SW	Black	600		50	0.883	2022968
V-TEC VM L25 SW	Black	300		25	1.597	2022970
V-TEC VM L32 SW	Black	240		20	2.047	2022972
V-TEC VM L40 SW	Black	120		10	3.168	2022974
V-TEC VM L50 SW	Black	60		5	5.010	2022976
V-TEC VM L63 SW	Black	60		5	7.390	2022978

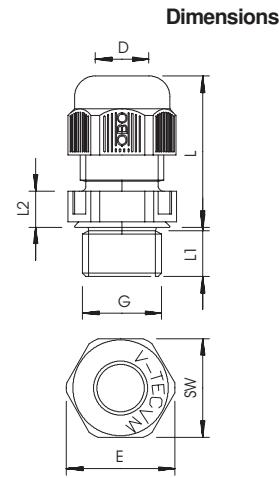


The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.

Temperature range: -20 °C to +65 °C.

Type	Thread	Sealing range		Dim. D		Dim. SW		Dim. E		Dim. min.		Dim. max.		Dim. L1		Dim. L2		In-stal-	Dimensions
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm					
V-TEC VM L12 SW	M12x1,5	3.5-7	15	16.5	17.5	24	15	5	5	2									
V-TEC VM L16 SW	M16x1,5	4.5-10	20	22	20.5	29.5	15	5	5	2.5									
V-TEC VM L20 SW	M20x1,5	6-13	24	27	22.5	32.5	15	5	5	3.75									
V-TEC VM L25 SW	M25x1,5	9-17	29	32	25.5	36	15	6	6	5									
V-TEC VM L32 SW	M32x1,5	15-21	36	41	28	40	15	6	6	7.5									
V-TEC VM L40 SW	M40x1,5	16-28	44	50	32	46	18	7	7	10									
V-TEC VM L50 SW	M50x1,5	23-35	54	60	37.5	54.3	18	8	8	12									
V-TEC VM L63 SW	M63x1,5	36-48	68	75	41.5	60.3	18	9	9	12									



Cap nut cable gland, plastic metric

Cap nut cable gland, metric thread, extra long, black



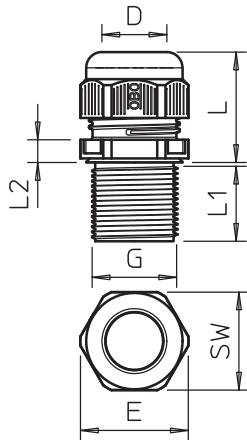
Type	Colour	Shipping box Piece	Pack	Weight	Item no.
			Piece	kg/100 pc.	
V-TEC VM LL16 SW	Black	500	50	0.800	2022985
V-TEC VM LL20 SW	Black	600	50	1.000	2022987
V-TEC VM LL25 SW	Black	300	25	1.700	2022989
V-TEC VM LL32 SW	Black	240	20	2.200	2022991
V-TEC VM LL40 SW	Black	120	10	2.200	2022993
V-TEC VM LL50 SW	Black	60	5	5.500	2022995
V-TEC VM LL63 SW	Black	60	5	7.500	2022997

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. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection threads are metric. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.

Temperature range: -20 °C to +65 °C.

Dimensions



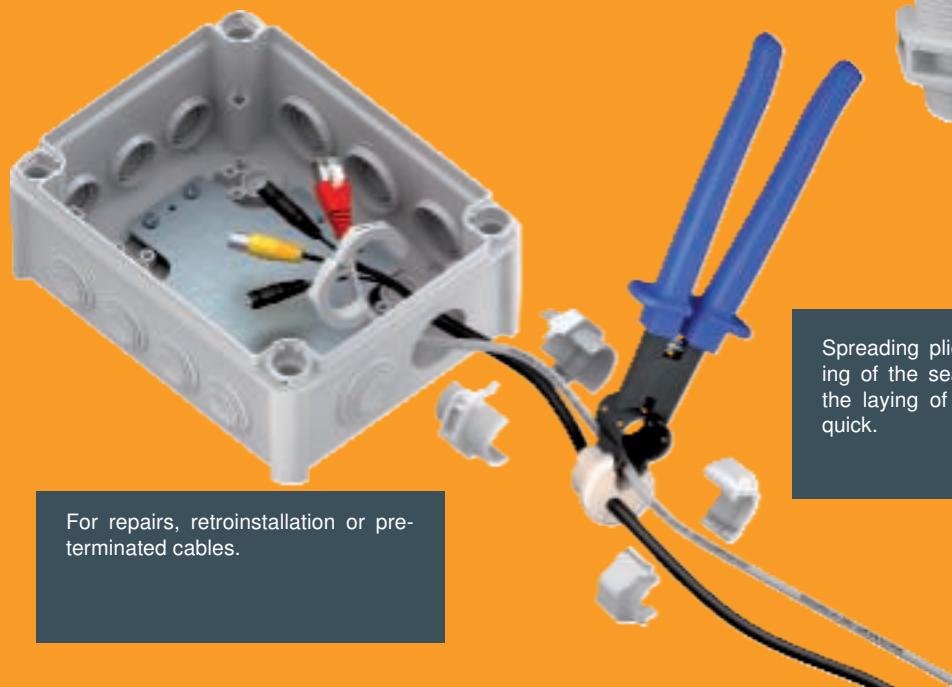
Type	Sealing range	Dim.			Dim.			In-stal-		
		Thread D mm	SW mm	E mm	min. L mm	max. L mm	L1 mm	L2 mm	torque Nm	
V-TEC VM LL16 SW	M16x1,5	4.5-10	20	22	20.5	29.5	24	5	2.5	
V-TEC VM LL20 SW	M20x1,5	6-13	24	27	22.5	32.5	24	5	3.75	
V-TEC VM LL25 SW	M25x1,5	9-17	29	32	25.5	36	24	6	5	
V-TEC VM LL32 SW	M32x1,5	15-21	36	41	28	40	24	6	7.5	
V-TEC VM LL40 SW	M40x1,5	16-28	44	50	36	46	24	7	10	
V-TEC VM LL50 SW	M50x1,5	23-35	54	60	37.5	54.3	24	8	12	
V-TEC VM LL63 SW	M63x1,5	36-48	68	75	41.5	60.3	24	9	12	



Cable glands

Separable cable glands

The separable cable gland allows easy and quick installation, for example, of pre-terminated cables with connectors. In an existing installation, a missing or defective cable gland can be replaced or supplemented without dismantling and interruption.



Spreading pliers for the best opening of the sealing inserts – making the laying of each cable easy and quick.



M20

M25

M30

IP
67

Separable cable gland, plastic

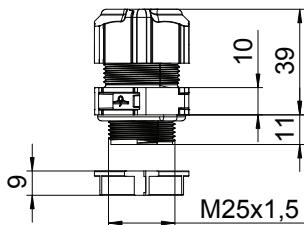
Divisible cable gland, seal insert enclosed, light grey



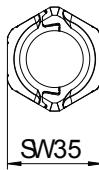
Type	Colour	Piece	Shipping box	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB25	Light grey	50		5	3.440	2024910

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland. The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	Dim. Dim.					
	SW	L	L	Dim.	Dim.	
mm	mm	mm	min.	max.	L1 L2	
V-TEC TB25	35	39	31.5	40	11	10



Divisible cable gland, seal insert, 1 cable, light grey

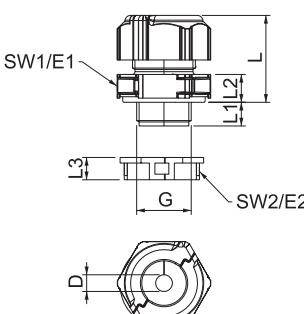


Type	Colour	Piece	Shipping box	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB20 06-08	Light grey	50		5	2.133	2024942
V-TEC TB20 08-10	Light grey	50		5	2.063	2024944
V-TEC TB20 09-13	Light grey	50		5	1.973	2024946
V-TEC TB20 11-14	Light grey	50		5	1.853	2024948

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.

The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	Sealing range					
	D mm	SW 1 mm	SW 2 mm	Dim. L1 mm	Dim. L2 mm	Dim. L mm
V-TEC TB20 06-08	6-8	30	27	10	8.5	30
V-TEC TB20 08-10	8-10.5	30	27	10	8.5	30
V-TEC TB20 09-13	9-13	30	27	10	8.5	30
V-TEC TB20 11-14	11.5-14.5	30	27	10	8.5	30



Divisible cable gland, seal insert, 1 cable, light grey

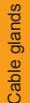
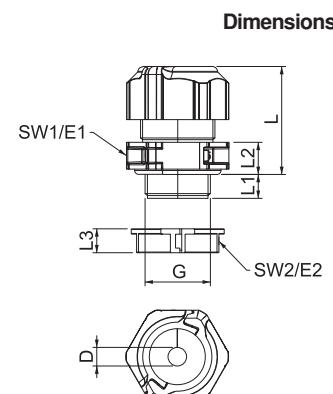
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB25 06-09	Light grey	50	5	2.900	2024912
V-TEC TB25 09-11	Light grey	50	5	2.900	2024913
V-TEC TB25 11-13	Light grey	50	5	3.110	2024916
V-TEC TB25 12-15	Light grey	50	5	2.980	2024919
V-TEC TB25 14-18	Light grey	50	5	2.510	2024922
V-TEC TB25 18-20	Light grey	50	5	2.290	2024925

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.

The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.



Type	Sealing						
	range	SW		Dim.		Dim.	
	D	1	SW	2	L1	L2	L
	mm	mm	mm	mm	mm	mm	mm
V-TEC TB25 06-09	6-7.5	35	31	11	10	41	
V-TEC TB25 09-11	9-11	35	31	11	10	41	
V-TEC TB25 11-13	11-13	35	31	11	10	41	
V-TEC TB25 12-15	12-15	35	31	11	10	41	
V-TEC TB25 14-18	14-18	35	31	11	10	41	
V-TEC TB25 18-20	18-20	35	31	11	10	41	



Divisible cable gland, seal insert, 1 cable, light grey

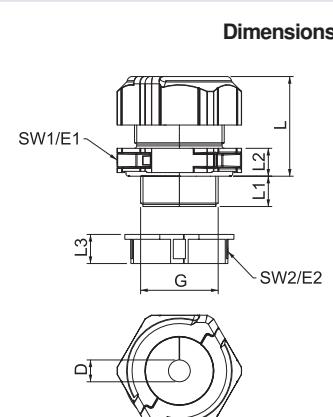
Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB32 09-13	Light grey	60	5	7.416	2024972
V-TEC TB32 11-15	Light grey	60	5	7.246	2024974
V-TEC TB32 14-18	Light grey	60	5	7.069	2024976
V-TEC TB32 17-20	Light grey	60	5	7.156	2024978
V-TEC TB32 20-25	Light grey	60	5	6.396	2024980
V-TEC TB32 24-26	Light grey	60	5	6.026	2024982

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.

The V-TEC TB is also unbeatable when retrofitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.



Type	Sealing range		SW		Dim.		Dim.	
	D		1	SW 2	L1	L2	L	
	mm	mm	mm	mm	mm	mm	mm	mm
V-TEC TB32 09-13	9-13		46	40	14	10	41	
V-TEC TB32 11-15	11.5-15.5		46	40	14	10	41	
V-TEC TB32 14-18	14-18		46	40	14	10	41	
V-TEC TB32 17-20	17-20.5		46	40	14	10	41	
V-TEC TB32 20-25	20-25		46	40	14	10	41	
V-TEC TB32 24-26	24-26.5		46	40	14	10	41	



Separable cable gland, plastic

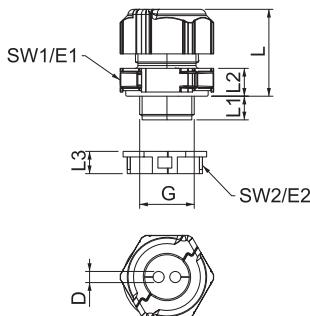
Separable cable gland, sealing insert, multiple, light grey



Type	Colour	Shipping box Piece	Pack	Weight	Item no.
			Piece	kg/100 pc.	
V-TEC TB20 2x4	Light grey	50	5	2.187	2024950
V-TEC TB20 2x5	Light grey	50	5	2.153	2024952
V-TEC TB20 2x6	Light grey	50	5	2.113	2024954
V-TEC TB20 4x4	Light grey	50	5	2.123	2024956
V-TEC TB20 6x4	Light grey	50	5	2.083	2024958

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	Number of drill holes	Dim. D		Dim. L		Dim. L		Dim. L		Dim. E1		Dim. SW	
		mm	mm	min.	max.	L1	L2	E1	1	mm	mm	mm	mm
V-TEC TB20 2x4	2	4	24.5	30.5	10	8.5	33.5	30					
V-TEC TB20 2x5	2	5	24.5	30.5	10	8.5	33.5	30					
V-TEC TB20 2x6	2	6	24.5	30.5	10	8.5	33.5	30					
V-TEC TB20 4x4	4	4	24.5	30.5	10	8.5	33.5	30					
V-TEC TB20 6x4	6	4	24.5	30.5	10	8.5	33.5	30					

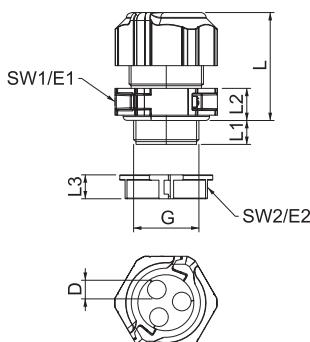
Separable cable gland, sealing insert, multiple, light grey



Type	Colour	Shipping box Piece	Pack	Weight	Item no.
			Piece	kg/100 pc.	
V-TEC TB25 3x7	Light grey	50	5	2.449	2024927
V-TEC TB25 3x9	Light grey	50	5	2.640	2024928
V-TEC TB25 4x5	Light grey	50	5	2.539	2024929
V-TEC TB25 4x6	Light grey	50	5	2.439	2024930
V-TEC TB25 4x8	Light grey	50	5	2.950	2024931

The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.
The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Dimensions



Type	Number of drill holes	Dim. D		Dim. L		Dim. L		Dim. L		Dim. E1		Dim. SW	
		mm	mm	min.	max.	L1	L2	E1	1	mm	mm	mm	mm
V-TEC TB25 3x7	3	7	31.5	40	11	10	39	35					
V-TEC TB25 3x9	3	9	31.5	40	11	10	39	35					
V-TEC TB25 4x5	4	5	31.5	40	11	10	39	35					
V-TEC TB25 4x6	4	6	31.5	40	11	10	39	35					
V-TEC TB25 4x8	4	8	31.5	40	11	10	39	35					



Separable cable gland, sealing insert, multiple, light grey

Type	Colour	Piece	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC TB32 2x11	Light grey	60	5	7.196	2024984
V-TEC TB32 3x9	Light grey	60	5	7.196	2024986
V-TEC TB32 3x11	Light grey	60	5	7.196	2024988
V-TEC TB32 4x8	Light grey	60	5	7.211	2024990
V-TEC TB32 6x6	Light grey	60	5	7.284	2024992

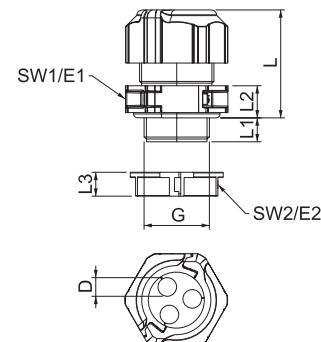


The splittable cable gland V-TEC TB.. ensures - like all V-TEC glands - a secure sealing of the cable. The installation of pre-terminated cables or function cables, for example, is easy and quick, thanks to the splitting of the cable gland.

The V-TEC TB is also unbeatable when refitting an existing installation and as a "repair gland". There is no need to disassemble pre-mounted cables, it can be installed without interrupting the production process.

Type	Number of drill holes	Dim. L		Dim. D		Dim. SW	Dim. Dim.
		min.	max.	min.	max.		
V-TEC TB32 2x11	2	11	32	41	14	10	46
V-TEC TB32 3x9	3	9	32	41	14	10	46
V-TEC TB32 3x11	3	11	32	41	14	10	46
V-TEC TB32 4x8	4	8	32	41	14	10	46
V-TEC TB32 6x6	6	6	32	41	14	10	46

Dimensions



Cap nut cable gland, PG thread, light grey

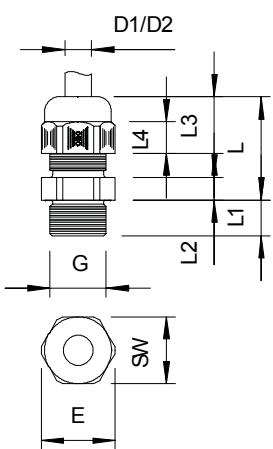


Type	Colour	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
		Piece	Box			
V-TEC PG7 LGR	Light grey	500		50	0.410	2024705
V-TEC PG9 LGR	Light grey	500		50	0.630	2024713
V-TEC PG11 LGR	Light grey	500		50	0.890	2024721
V-TEC PG13 LGR	Light grey	400		50	1.020	2024748
V-TEC PG16 LGR	Light grey	250		25	1.380	2024756
V-TEC PG21 LGR	Light grey	300		25	2.290	2024764
V-TEC PG29 LGR	Light grey	240		20	4.020	2024772
V-TEC PG36 LGR	Light grey	120		10	6.030	2024780
V-TEC PG42 LGR	Light grey	60		5	7.650	2024799
V-TEC PG48 LGR	Light grey	60		5	9.460	2024802

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. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection thread is a PG thread. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.
Temperature range: -20 °C to +65 °C.

Dimensions



Type	Thread	Sealing range	Dim. D		Dim. SW		Dim. E		Dim. min.		Dim. max.		Dim. L1		Dim. L2		In-sta-tion
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm
V-TEC PG7 LGR	Pg 7	2.5-6.5	15	16.5	18	23	8	5	5	1.67							
V-TEC PG9 LGR	Pg 9	2.5-8	19	21	21	27	8	5	5	2.5							
V-TEC PG11 LGR	Pg 11	3.5-10	22	25	22	29	8	5	5	2.5							
V-TEC PG13 LGR	Pg 13.5	5-12	24	27	23	30	9	5	5	2.5							
V-TEC PG16 LGR	Pg 16	7-14	27	30	25	33	10	6	6	3.67							
V-TEC PG21 LGR	Pg 21	9-18	33	37.5	28	38	11	6	6	5							
V-TEC PG29 LGR	Pg 29	14-25	42	47.5	32	43	11	7	7	5							
V-TEC PG36 LGR	Pg 36	18-32	53	60	39	54	13	8	8	5							
V-TEC PG42 LGR	Pg 42	24-38	60	68	42	57	13	9	9	5							
V-TEC PG48 LGR	Pg 48	30-44	65	74	42	58	14	9	9	5							



Cap nut cable gland, PG thread, set with lock nut, light grey

Type	Colour	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
		Piece	Piece			
V-TEC PG7+ LGR	Light grey	600		50	0.503	2024655
V-TEC PG9+ LGR	Light grey	500		50	0.799	2024657
V-TEC PG11+ LGR	Light grey	500		50	1.074	2024659
V-TEC PG13,5+LGR	Light grey	400		50	1.276	2024661
V-TEC PG16+ LGR	Light grey	250		25	1.705	2024663
V-TEC PG21+ LGR	Light grey	300		25	2.756	2024665
V-TEC PG29+ LGR	Light grey	240		20	5.120	2024667
V-TEC PG36+ LGR	Light grey	120		10	7.713	2024669
V-TEC PG42+ LGR	Light grey	60		5	9.406	2024671
V-TEC PG48+ LGR	Light grey	60		5	11.290	2024673

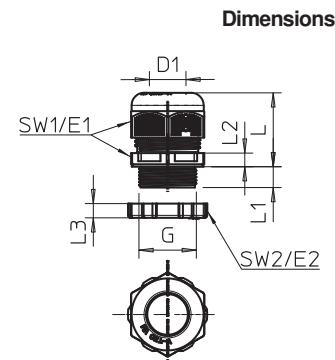


The quickest and most convenient way of providing strain relief and tightness with cable glands on junction boxes and housings is with the tried-and-trusted V-TEC VM cable glands from OBO. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slat technology. Strain relief and tightness have been tested to DIN EN 62444. The connection thread is a PG thread. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.

Temperature range: -20 °C to +65 °C.

Type	Thread	Sealing range		Dim. SW	Dim. L				
		D	1	min.	max.	L1	L3	L2	
V-TEC PG7+ LGR	Pg 7	2.5-6.5	15	18	23	8	5	5	
V-TEC PG9+ LGR	Pg 9	2.5-8	19	21	27	8	5	5	
V-TEC PG11+ LGR	Pg 11	3.5-10	22	22	29	8	5	5	
V-TEC PG13,5+LGR	Pg 13,5	5-12	24	23	30	9	6	5	
V-TEC PG16+ LGR	Pg 16	7-14	27	25	33	10	6	6	
V-TEC PG21+ LGR	Pg 21	9-18	33	28	38	11	7	6	
V-TEC PG29+ LGR	Pg 29	14-25	42	32	43	11	7	7	
V-TEC PG36+ LGR	Pg 36	18-32	53	39	54	13	8	8	
V-TEC PG42+ LGR	Pg 42	24-38	60	42	57	13	6	9	
V-TEC PG48+ LGR	Pg 48	30-44	65	42	58	14	8	9	



Cap nut cable gland, plastic PG

Cap nut cable gland, PG thread, long, light grey



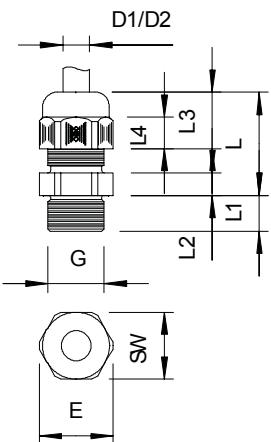
Type	Colour	Shipping box Piece	Pack	Weight	Item no.
			Piece	kg/100 pc.	
V-TEC L PG7 LGR	Light grey	500	50	0.410	2024284
V-TEC L PG9 LGR	Light grey	500	50	0.670	2024292
V-TEC L PG11 LGR	Light grey	500	50	0.930	2024306
V-TEC L PG13 LGR	Light grey	600	50	1.090	2024314
V-TEC L PG16 LGR	Light grey	250	25	1.490	2024322
V-TEC L PG21 LGR	Light grey	300	25	2.330	2024330
V-TEC L PG29 LGR	Light grey	240	20	3.860	2024349
V-TEC L PG36 LGR	Light grey	120	10	7.750	2024357
V-TEC L PG42 LGR	Light grey	60	5	10.070	2024365

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. A protection rating of IP68 is achieved through the integrated sealing lip and the special OBO slot technology. Strain relief and tightness have been tested to DIN EN 62444. The connection thread is a PG thread. Once screwed in place, the installation is there forever, as the optimum thread adjustment with the right pitch ensures permanent resistance to shaking.

Applications: From private housing with junction boxes up to industrial applications in the distributor cabinet.

Temperature range: -20 °C to +65 °C.

Dimensions



Type	Thread	Sealing range		Dim. D		Dim. SW		Dim. E		Dim. min.		Dim. max.		Dim. L1		Dim. L2	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
		V-TEC L PG7 LGR	Pg 7	2.5-6.5	15	16.5	18	23	15	5							
V-TEC L PG9 LGR	Pg 9	2.5-8	19	21	21	27	15	5									
V-TEC L PG11 LGR	Pg 11	3.5-10	22	25	22	29	15	5									
V-TEC L PG13 LGR	Pg 13.5	5-12	24	27	23	30	15	5									
V-TEC L PG16 LGR	Pg 16	7-14	27	30	25	33	15	6									
V-TEC L PG21 LGR	Pg 21	9-18	33	37.5	28	38	15	6									
V-TEC L PG29 LGR	Pg 29	14-25	42	47.5	32	43	15	7									
V-TEC L PG36 LGR	Pg 36	18-32	53	60	39	54	18	8									
V-TEC L PG42 LGR	Pg 42	24-38	60	68	42	57	18	9									



Cap nut cable gland, EX area, metric thread, black

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VTEC EX M12 SW	Black	50	0.360	2050307
VTEC EX M16 SW	Black	50	0.630	2050315
VTEC EX M20 SW	Black	50	0.891	2050323
VTEC EX M25 SW	Black	25	2.350	2050331
VTEC EX M32 SW	Black	20	3.900	2050358
VTEC EX M40 SW	Black	10	7.500	2050366
VTEC EX M50 SW	Black	5	9.200	2050374
VTEC EX M63 SW	Black	5	9.460	2050382



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.

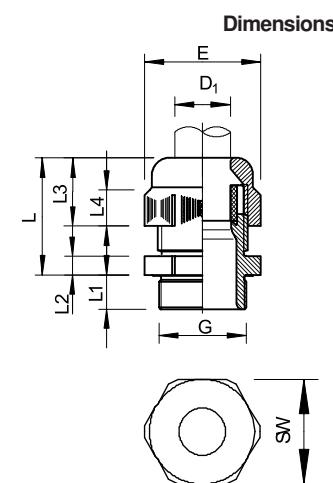
With metric connecting thread to IEC 423.

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.

Type	Sealing range		Dim. D		Dim. SW		L min.		L max.		Dim. L1		Dim. L2		Dim. L3	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
	VTEC EX M12 SW	3.5 - 6.5	15	16.5	18	23	8	5	12.6							
VTEC EX M16 SW	5 - 8	19	21	21	27	8	5	15.5								
VTEC EX M20 SW	7 - 12	24	27	23	30	9	5	18								
VTEC EX M25 SW	12 - 18	33	37.5	28	38	11	6	22								
VTEC EX M32 SW	17 - 25	42	47.5	32	43	11	7	24.5								
VTEC EX M40 SW	21 - 32	53	60	39	54	13	8	31								
VTEC EX M50 SW	24 - 37	60	68.5	42	57	13	9	32.5								
VTEC EX M63 SW	30 - 44	65	74	42	58	14	9	33								



Cap nut cable gland, plastic, EX area

Cap nut cable gland, EX area, PG thread, black



Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VTEC EX PG7 SW	Black	50	0.410	2050005
VTEC EX PG9 SW	Black	50	0.630	2050013
VTEC EX PG11 SW	Black	50	0.890	2050021
VTEC EX PG13.5SW	Black	50	1.020	2050048
VTEC EX PG16 SW	Black	25	1.380	2050056
VTEC EX PG21 SW	Black	25	2.290	2050064
VTEC EX PG29 SW	Black	20	4.020	2050072
VTEC EX PG36 SW	Black	10	6.030	2050080
VTEC EX PG42 SW	Black	5	7.650	2050099
VTEC EX PG48 SW	Black	5	9.460	2050102

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.

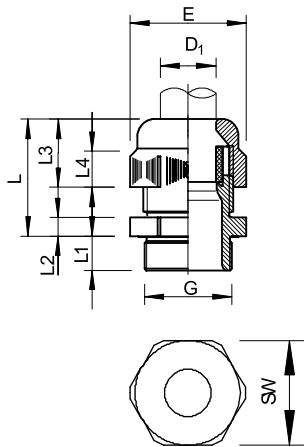
With PG connection thread according to IEC 423.

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.

Dimensions



Type	Sealing range		Dim. D	Dim. SW	Dim. E	Dim. L min.	Dim. max.	Dim. L1	Dim. L2	Dim. L3
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
VTEC EX PG7 SW	3.5-6.5	15	16.5	18	23	8	5	12.6		
VTEC EX PG9 SW	5-8	19	21	21	27	8	5	17		
VTEC EX PG11 SW	4.5-10	22	25	22	29	8	5	17		
VTEC EX PG13.5SW	6.5-12	24	27	23	30	9	5	18		
VTEC EX PG16 SW	7-14	27	30	25	33	10	6	19		
VTEC EX PG21 SW	12-18	33	37.5	28	38	11	6	22		
VTEC EX PG29 SW	17-25	42	47.5	32	43	11	7	24.5		
VTEC EX PG36 SW	21-32	53	60	39	54	13	8	31		
VTEC EX PG42 SW	24-38	60	68.5	42	57	13	9	32.5		
VTEC EX PG48 SW	30-44	65	74	42	58	14	9	33		



Cap nut cable gland, EX area, PG thread, long, black

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
VTEC EXL PG9 SW	Black	50	0.670	2050145
VTEC EXL PG11 SW	Black	50	0.930	2050153
VTEC EXL PG13 SW	Black	50	1.090	2050161
VTEC EXL PG16 SW	Black	25	1.490	2050188
VTEC EXL PG21 SW	Black	25	2.330	2050196

Cable gland with EG design type approval certificate for products and protection systems for use in accordance with the regulations in potentially explosive areas.

Directive 94/9/EC EC design type approval certificate number: PTB 99 ATEX 3112X and... 3113X.

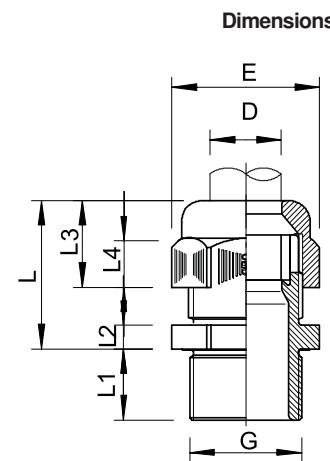
Robust cap-nut cable gland with large sealing area, as well as strain relief and torsion protection for high sealing demands.

Sealing ring of chloroprene/nitrile rubber, tapered sealing lips, so no connection thread sealing ring is needed. Tested to VDE standards

Protection IP 68 at 5 bar.



Type	Sealing range		Dim. D		Dim. SW		Dim. E		Dim. min.		Dim. max.		Dim. L1		Dim. L2		Dim. L3	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
VTEC EXL PG9 SW	5-8	19	21	21	27	15	5	155										
VTEC EXL PG11 SW	4.5-10	22	25	22	29	15	5	17										
VTEC EXL PG13 SW	6.5-12	24	27	23	30	15	5	18										
VTEC EXL PG16 SW	7-14	27	30	25	33	15	6	19										
VTEC EXL PG21 SW	12-18	33	37.5	28	38	15	6	22										



Cap nut cable gland, brass

Cap nut cable gland, metric thread, silver grey, long, nickel-plated

CuZn
37
N
IP
68
M
VDE



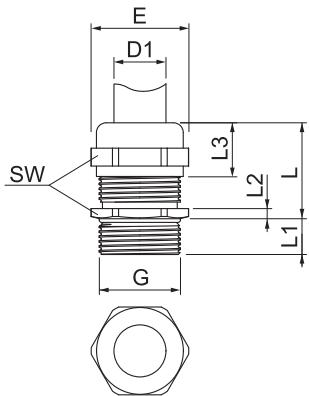
Type	Material				Pack Piece	Weight kg/100 pc.	Item no.
	V-TEC VM LM12 MS	V-TEC VM LM16 MS	V-TEC VM LM20 MS	V-TEC VM LM25 MS			
V-TEC VM LM32 MS	Brass				50	1.300	2086111
V-TEC VM LM40 MS	Brass				50	2.059	2086117
V-TEC VM LM50 MS	Brass				25	3.360	2086123
V-TEC VM LM63 MS	Brass				25	4.800	2086129
V-TEC VM LM75MS1	Brass				10	9.150	2086135
V-TEC VM LM75MS2	Brass				5	13.400	2086141
					5	24.000	2086147
					5	32.100	2086153
					3	112.300	2086156
					3	98.200	2086159

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.

Dimensions



Type	Sealing range	Dim.					
		D	SW	L	Dim. max.	Dim. L1	Dim. L3
	mm	mm	mm	mm	mm	mm	mm
V-TEC VM LM12 MS	3-6	14	15.5	20	10	3	11.5
V-TEC VM LM16 MS	5-9	17	19	24	10	3	15
V-TEC VM LM20 MS	9-13	22	24	27	10	3.5	16.5
V-TEC VM LM25 MS	11-16	27	30	29.5	11	4	17
V-TEC VM LM32 MS	14-21	34	36	30	13	4.5	18.5
V-TEC VM LM40 MS	19-27	43	46	33	13	4.5	21
V-TEC VM LM50 MS	24-35	55	60	38.5	14	4.5	25
V-TEC VM LM63 MS	32-42	65	65	44.5	14	5	31
V-TEC VM LM75MS1	48-55	90	97	42	18	7	25
V-TEC VM LM75MS2	53-60	90	97	42	18	7	25



Cap nut cable gland, metric thread, silver grey, nickel-plated

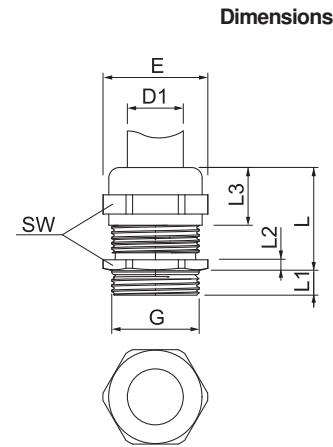
Type	Material	Pack Piece	Weight kg/100 pc.	Item no.	
V-TEC VM12 MS	Brass	50	1.305	2086018	
V-TEC VM16 MS	Brass	50	1.640	2086024	
V-TEC VM20 MS	Brass	25	3.140	2086030	
V-TEC VM25 MS	Brass	25	4.260	2086036	
V-TEC VM32 MS	Brass	20	8.457	2086042	
V-TEC VM40 MS	Brass	5	12.240	2086048	
V-TEC VM50 MS	Brass	5	22.700	2086054	
V-TEC VM63 MS	Brass	5	30.300	2086060	



With metric connecting thread to IEC 423, robust cap-nut cable gland with large sealing area. Strain relief, wringing protection and tightness over the whole clamping area. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted O sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP68 at 5 bar for 1 hr, max. permitted ambient temperature -20 - 100°C.

* Prices according to DEL notation.

Type	Sealing range		Dim.				
	D mm	SW mm	L mm	Dim. max. mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm
	mm	mm	mm	mm	mm	mm	mm
V-TEC VM12 MS	3-6	14	15.5	20	5	3	11.5
V-TEC VM16 MS	5-9	17	19	24	5	3	15
V-TEC VM20 MS	9-13	22	24	27	6	3.5	16.5
V-TEC VM25 MS	11-16	27	30	29.5	7	4	17
V-TEC VM32 MS	14-21	34	36	30	8	4.5	18.5
V-TEC VM40 MS	19-27	43	46	33	8	4.5	21
V-TEC VM50 MS	24-35	55	60	38.5	9	4.5	25
V-TEC VM63 MS	32-42	65	70	44.5	10	5	31



Cap nut cable gland, brass

CuZn
37 N

Cap nut cable gland, EMC, metric thread, nickel-plated

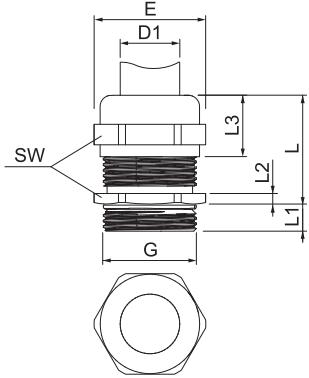


Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
	V-TEC VM12 EMV	Brass			
V-TEC VM16 EMV	Brass		50	1.837	2086207
V-TEC VM20 EMV	Brass		25	3.473	2086211
V-TEC VM25 EMV	Brass		25	5.280	2086215
V-TEC VM32 EMV	Brass		20	7.662	2086219
V-TEC VM40 EMV	Brass		5	12.880	2086223
V-TEC VM50 EMV	Brass		5	26.165	2086227
V-TEC VM63 EMV	Brass		5	33.990	2086231

With metric connecting thread to IEC 423, robust EMV cap-nut cable gland with large sealing area. Strain relief, wringing protection and tightness over the whole clamping area. Neoprene sealing ring. Polyamide terminal insert. With pre-mounted O sealing ring on connection thread, VDE-tested to DIN EN 50262, protection rating IP 68 at 5 bar for 1 hr.

* Prices according to DEL notation.

Dimensions



Type	Sealing range	Dim.					
		D	SW	E	max.	L1	L2
	mm	mm	mm	mm	mm	mm	mm
V-TEC VM12 EMV	3-6	14	15.5	25	5	3	11.5
V-TEC VM16 EMV	5-9	17	19	30	5	3	15
V-TEC VM20 EMV	9-13	22	24	33.5	6	3.5	16.5
V-TEC VM25 EMV	11-16	27	30	36.5	7	3.5	16.5
V-TEC VM32 EMV	14-21	34	36	38	8	4.5	18.5
V-TEC VM40 EMV	19-27	43	46	49.5	8	4.5	21
V-TEC VM50 EMV	24-35	55	60	49.5	9	4.5	25
V-TEC VM63 EMV	32-42	65	70	52.5	10	6.5	26

Cap nut cable gland, EMC spring contact, metric thread, nickel-plated

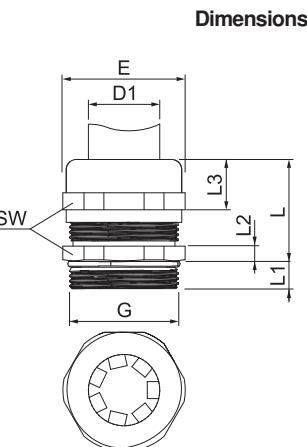
Type	Material	Pack Piece	Weight kg/100 pc.	Item no.
V-TEC VM16 EMV-K	Brass	50	2.010	2086165
V-TEC VM20 EMV-K	Brass	25	3.564	2086169
V-TEC VM25 EMV-K	Brass	25	5.693	2086173
V-TEC VM32 EMV-K	Brass	20	9.880	2086177
V-TEC VM40 EMV-K	Brass	5	17.200	2086181
V-TEC VM50 EMV-K	Brass	5	13.735	2086185
V-TEC VM63 EMV-K	Brass	5	16.780	2086189



With metric connecting thread to IEC 423, robust EMV cap-nut cable gland with large sealing area. The contact 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.

Type	Sealing range		Dim.		
	D	SW	L	max.	L1
	mm	mm	mm	mm	mm
V-TEC VM16 EMV-K	5-9	17	19	25	5
V-TEC VM20 EMV-K	9-13	22	24	27.5	6
V-TEC VM25 EMV-K	11-16	27	30	29	7
V-TEC VM32 EMV-K	14-21	34	36	30	8
V-TEC VM40 EMV-K	19-27	43	46	31	8
V-TEC VM50 EMV-K	24-35	55	60	40.5	9
V-TEC VM63 EMV-K	38-48	65	65	42.5	10



Cap nut cable gland, brass

Cap nut cable gland, PG thread, nickel-plated

CuZn 37	N
IP 68	Pg



Type	Material					Pack Piece	Weight kg/100 pc.	Item no.
V-TEC PG7 MS	Brass					50	1.044	2085607
V-TEC PG9 MS	Brass					50	1.600	2085615
V-TEC PG11 MS	Brass					50	2.300	2085623
V-TEC PG13 MS	Brass					50	2.800	2085631
V-TEC PG16 MS	Brass					25	3.400	2085658
V-TEC PG21 MS	Brass					25	6.000	2085666
V-TEC PG29 MS	Brass					20	13.000	2085674
V-TEC PG36 MS	Brass					10	21.195	2085682
V-TEC PG42 MS	Brass					5	23.500	2085690
V-TEC PG48 MS	Brass					5	31.500	2085704

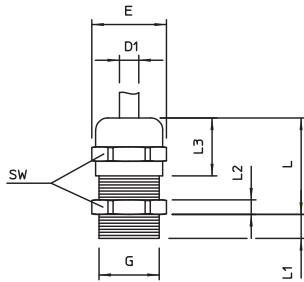
Cable gland of cap-nut design with large sealing area, and strain relief and torsion protection for high sealing demands with Pg connection thread to DIN 40430, polyamide terminal insert, sealing ring of chloroprene/nitrile rubber, with pre-mounted O ring on the connection thread.

Protection rating IP 68 at 5 bar: 1 hr, tested to VDE 0619.

"Normal" connection thread length, according to DIN 46320.

* Prices according to DEL notation.

Dimensions



Type	Sealing range		Dim.				
	D	SW	Dim. L	Dim. max.	Dim. L1	Dim. L2	Dim. L3
	mm	mm	mm	mm	mm	mm	mm
V-TEC PG7 MS	2.5-6.5	14	15.5	20	5	3	12
V-TEC PG9 MS	2.5-8	17	18.9	22	6	3	14
V-TEC PG11 MS	3.5-10	20	22.2	24	6	3	15
V-TEC PG13 MS	5-12	22	24.4	25	6.5	3.5	15
V-TEC PG16 MS	7-14	24	26.7	27	6.5	4	17
V-TEC PG21 MS	9-18	30	33.5	33	7	4.5	20
V-TEC PG29 MS	14-25	40	43.5	39	8	5	23.5
V-TEC PG36 MS	18-32	50	54	49	9	5.5	29
V-TEC PG42 MS	24-38	57	61	52	10	6	31
V-TEC PG48 MS	30-44	64	69	52.5	10	6.5	31



CuZn 37	N
IP 68	Pg

Cap nut cable gland, PG thread, long, nickel-plated

Type	Material	Pack Piece	Weight kg/100 pc.	Item no.	
				Brass	Brass
V-TEC L PG9 MS	Brass	50	1.795	2085739	
V-TEC L PG11 MS	Brass	50	2.550	2085747	
V-TEC L PG13 MS	Brass	50	3.030	2085755	
V-TEC L PG16 MS	Brass	25	3.660	2085763	
V-TEC L PG21 MS	Brass	25	6.580	2085771	
V-TEC L PG29 MS	Brass	10	12.792	2085798	
V-TEC L PG48 MS	Brass	5	37.900	2085836	



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.

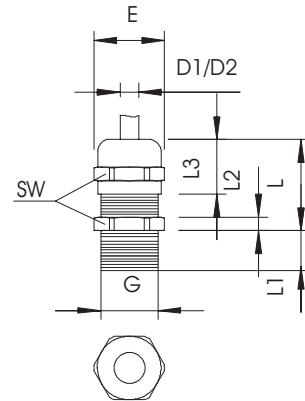
Tested to VDE 0619.

With long connection thread.

* Prices according to DEL notation.

Type	Sealing range		Dim.				
	D	SW	L	Dim. max.	L1	L2	L3
	mm	mm	mm	mm	mm	mm	mm
V-TEC L PG9 MS	2.5-8	17	18.9	22	10	3	14
V-TEC L PG11 MS	3.5-10	20	22.2	24	10	3	15
V-TEC L PG13 MS	5-12	22	24.4	25	10	3.5	16
V-TEC L PG16 MS	7-14	24	26.7	27	10	4	17
V-TEC L PG21 MS	9-18	30	33.5	33	12	4.5	20
V-TEC L PG29 MS	14-25	40	43.5	39	12	5	23
V-TEC L PG48 MS	30-44	64	69	52.5	15	6.5	31

Dimensions



Cone cable glands, brass

Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with metric connection thread to DIN EN 60423 and ISO 68.

Cable glands



Robust EMC cap-nut cable gland

**With metric connecting thread to
IEC 423 for meeting high tightness
requirements**

CuZn 37	N
IP 54	IP 65
	M

Cone cable gland, metric thread, cutting ring, nickel-plated

Type	Material	Pack Piece	Weight kg/100 pc.	Item no.	
				162 MS M12	Brass
162 MS M16	Brass	50	1.200	2083706	
162 MS M20	Brass	50	1.814	2083712	
162 MS M25	Brass	25	2.294	2083716	
162 MS M32	Brass	25	3.388	2083720	
162 MS M40	Brass	10	5.004	2083724	
162 MS M50	Brass	10	14.881	2083728	
162 MS M50	Brass	5	15.800	2083732	
162 MS M63	Brass	5	21.600	2083736	



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.

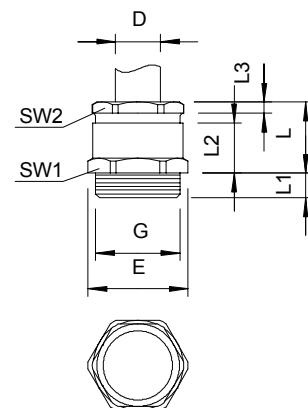
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.

With cutting ring.

* Prices according to DEL notation.

Type	Sealing range	SW		Dim. D	Dim. E	Dim. L	Dim. L1	Dim. L2	Dim. L3
		D	1	mm	mm	mm	mm	mm	mm
162 MS M12	5-7	14	13	15.5	15	7	16	2.5	
162 MS M16	5-8	18	15	20.2	16	7	16	3	
162 MS M20	7.5-13.5	22	20	24.4	18	7	18	3	
162 MS M25	10-20.5	32	28	35.5	22	8	22	2.5	
162 MS M32	18-29	40	37	43.5	24	8.5	24	3.5	
162 MS M40	24-31	50	47	54	29	8.5	29	3.5	
162 MS M50	30-42	57	54	61	33	9.5	33	4	
162 MS M63	36-47	65	60	69	35	10	10	4	

Dimensions



Conical cable gland, brass

Cone cable gland, PG thread, cutting ring,nickel-plated

CuZn 37	N
IP 54	IP 65
	Pg



Type	Material		Pack Piece	Weight kg/100 pc.	Item no.
	Brass				
162 MS PG 9	Brass		50	1.232	2082519
162 MS PG11	Brass		50	1.960	2082500
162 MS PG13.5	Brass		50	2.630	2082527
162 MS PG16	Brass		25	3.190	2082543
162 MS PG21	Brass		25	5.240	2082578
162 MS PG29	Brass		10	9.260	2082594
162 MS PG36	Brass		10	13.156	2082616

Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with Pg connection thread to DIN 40430.

Pressure rings made of electrogalvanised and transparently passivated steel.

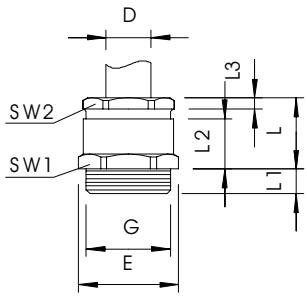
NR/SBR sealing ring.

Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.

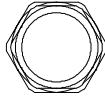
With cutting ring.

* Prices according to DEL notation.

Dimensions



Type	Sealing range					
	Dim. D	Dim. E	Dim. L	Dim. L1	Dim. L2	Dim. L3
	mm	mm	mm	mm	mm	mm
162 MS PG 9	5-9.5		18.9	16	6	10.5
162 MS PG11	7.5-11.5		22.2	17	6	11
162 MS PG13.5	7.5-13.5		24.4	18	6.5	12.5
162 MS PG16	7.5-15.5		26.7	19	6.5	13.5
162 MS PG21	10-20.5		33.5	22	7	15
162 MS PG29	18-29		43.5	24	8	16.5
162 MS PG36	24-37		54	29	9	19.5
						4.5



CuZn 37	N
IP 54	IP 65
	M

Cone cable gland, metric thread, small cutting ring, nickel-plated

Type	Material	Surface	Pack	Weight	
Type			Piece	kg/100 pc.	Item no.
163 MS M12	Brass	Nickel-plated	50	0.850	2083612
163 MS M16	Brass	Nickel-plated	50	1.160	2083620
163 MS M20	Brass	Nickel-plated	25	2.210	2083639
163 MS M25	Brass	Nickel-plated	25	4.550	2083647
163 MS M32	Brass	Nickel-plated	10	8.210	2083655
163 MS M40	Brass	Nickel-plated	10	14.230	2083663
163 MS M50	Brass	Nickel-plated	5	20.540	2083671
163 MS M63	Brass	Nickel-plated	5	30.000	2083698



Cable gland with hexagonal intermediate connector, shape C4, to DIN 46320 with metric connection thread to DIN EN 60423 and ISO 68. Pressure rings made of electrogalvanised and transparently passivated steel.

NR/SBR sealing ring.

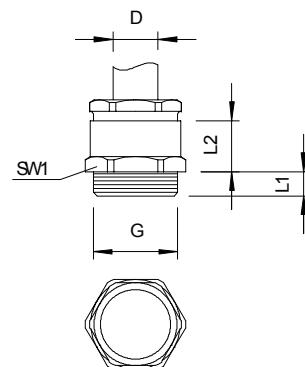
Protection rating: with connection thread sealing ring IP 65, without connection thread sealing ring IP 54.

With simple sealing ring, with small internal diameter.

* Prices according to DEL notation.

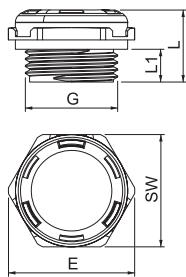
Type	Sealing range					
	D	SW	Dim. 1	Dim. E	Dim. L1	Dim. L2
mm	mm	mm	mm	mm	mm	mm
163 MS M12	5-7	14	15.5	7	10	
163 MS M16	6-8	17	18.9	7	10.5	
163 MS M20	8-10	22	24.4	7	12.5	
163 MS M25	17-19	34	35.5	8	15	
163 MS M32	24-26	42	43.5	8.5	16.5	
163 MS M40	31-33	52	54	8.5	19.5	
163 MS M50	37-39	57	62.1	10.5	23	
163 MS M63	43-45	65	69	10.5	23	

Dimensions



Pressure compensation component

Pressure compensation element



Type
109 M20 LGR

Item no.
2034680

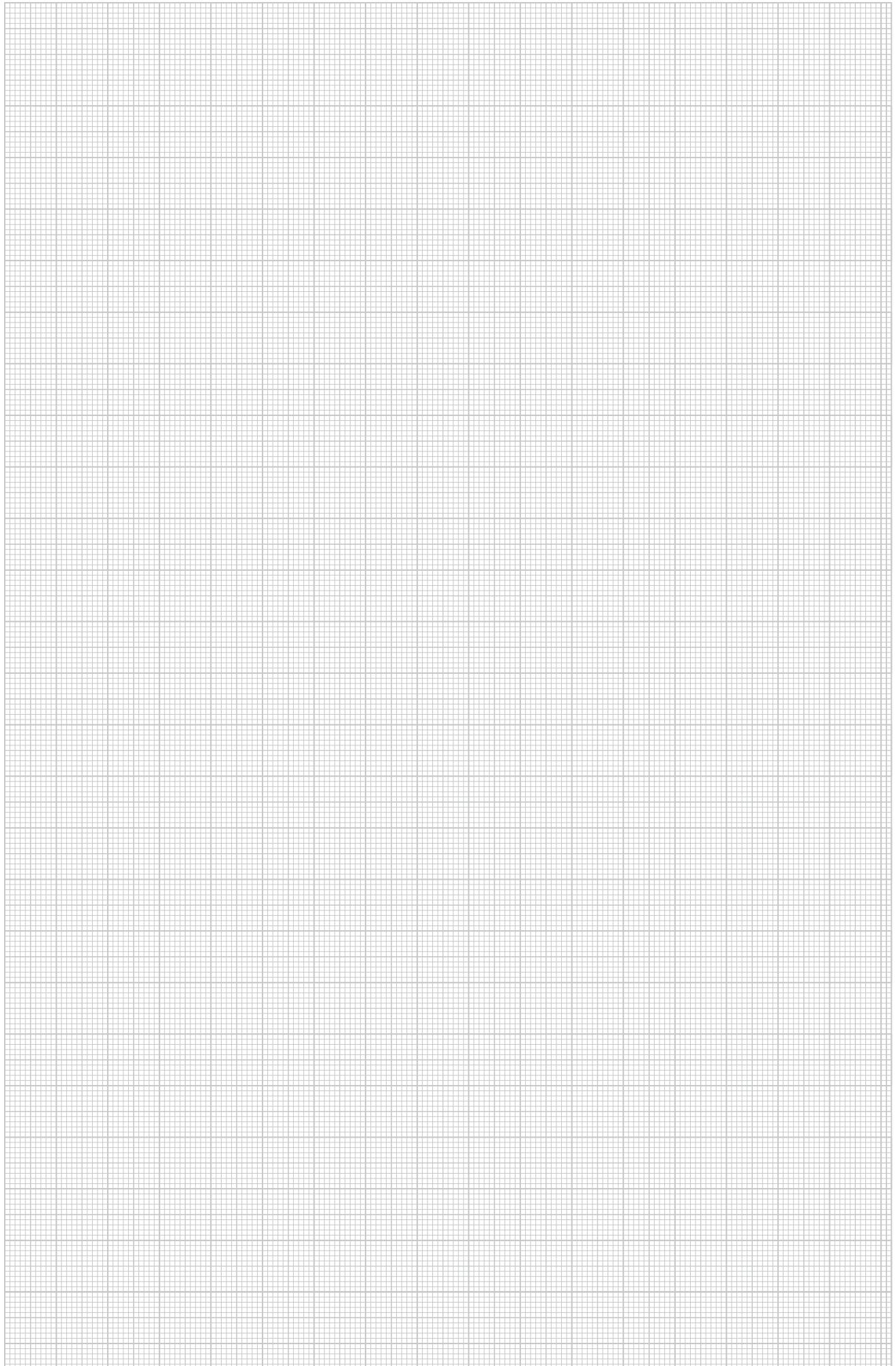
Cable glands



OBO

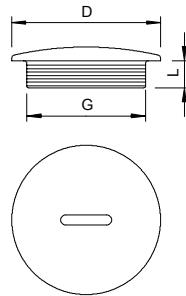
230

Always indicate the item number when ordering.



Screw plugs

Screw plug, metric thread

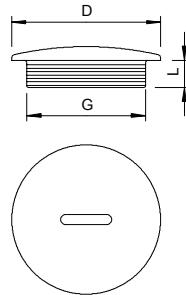


Type	Thread	Dim. D mm	Dim. L mm	Dim. Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
108 M12 PS	M12x1,5	15	6	Light grey	3000	100	0.047	2033003
108 M16 PS	M16x1,5	20	6	Light grey	1800	100	0.085	2033007
108 M20 PS	M20x1,5	24	6	Light grey	1200	100	0.128	2033011
108 M25 PS	M25x1,5	30	8	Light grey	1000	100	0.210	2033016
108 M32 PS	M32x1,5	37	8	Light grey	500	50	0.339	2033021
108 M40 PS	M40x1,5	46	8	Light grey	300	25	0.564	2033026
108 M50 PS	M50x1,5	56	10	Light grey	300	25	0.939	2033032
108 M63 PS	M63x1,5	70	12	Light grey	300	25	1.492	2033038

Screw plug in accordance with DIN 46320, with metric thread to IEC 423.



Screw plug, PG thread

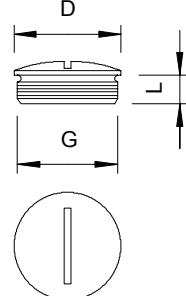


Type	Thread	Dim. D mm	Dim. L mm	Dim. Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
108 PG 7	Pg 7	14	6	Light grey	2400	100	0.056	2033070
108 PG 9	Pg 9	19	6	Light grey	1800	100	0.096	2033097
108 PG11	Pg 11	22	6	Light grey	2000	100	0.128	2033119
108 PG13.5	Pg 13.5	25	6.5	Light grey	1200	100	0.164	2033135
108 PG16	Pg 16	27	6.5	Light grey	1000	100	0.184	2033151
108 PG21	Pg 21	34	8	Light grey	1200	100	0.345	2033216
108 PG29	Pg 29	44	8	Light grey	600	50	0.646	2033291
108 PG36	Pg 36	58	10	Light grey	200	25	1.057	2033364
108 PG42	Pg 42	67	10	Light grey	300	25	1.479	2033429
108 PG48	Pg 48	73	12	Light grey	300	25	1.832	2033488

Screw plug in accordance with DIN 46320, with PG thread to DIN 40430.



Screw plug, metric thread



Type	Thread	Dim. D mm	Dim. L mm	Dim. Material	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
168 MS M12	M12x1,5	16	5	Brass	3000	100	0.390	2090511
168 MS M16	M16x1,5	20	6	Brass	2000	100	0.640	2090538
168 MS M20	M20x1,5	22	6.5	Brass	1000	100	0.930	2090546
168 MS M25	M25x1,5	28	7	Brass	500	50	1.850	2090554
168 MS M32	M32x1,5	35	8	Brass	200	50	2.810	2090562
168 MS M40	M40x1,5	45	8	Brass	100	50	5.290	2090570
168 MS M50	M50x1,5	55	9	Brass	100	25	6.310	2090589
168 MS M63	M63x1,5	68	10	Brass	50	25	12.570	2090597

Screw plug N in accordance with DIN 46320, with metric thread to DIN EN 60423 or ISO 68.

In conjunction with sealing ring, types 107, 170 or 171, protection rating IP68 (5 bar/1 hr). Sealing ring not contained in the scope of delivery.

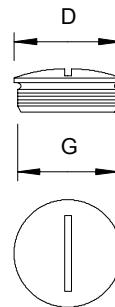
* Prices according to DEL notation.

IP68

CuZn
37
N
Pg

Type	Thread	Dim. D mm	Dim. L mm	Material	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
168 MS PG 7	Pg 7	14	5	Brass	3000	100	0.410	2090074
168 MS PG 9	Pg 9	17	6	Brass	2000	100	0.530	2090090
168 MS PG 11	Pg 11	20	6	Brass	1000	100	0.840	2090112
168 MS PG 13	Pg 13.5	22	6.5	Brass	1000	100	0.930	2090139
168 MS PG 16	Pg 16	24	6.5	Brass	1000	100	1.300	2090163
168 MS PG 21	Pg 21	30	7	Brass	500	50	2.420	2090201
168 MS PG 29	Pg 29	39	8	Brass	200	50	4.310	2090295
168 MS PG 36	Pg 36	50	9	Brass	100	50	7.800	2090368
168 MS PG 42	Pg 42	57	10	Brass	100	25	11.710	2090422
168 MS PG 48	Pg 48	64	10	Brass	50	25	15.260	2090481

Screw plug, PG thread



Screw plug N in accordance with DIN 46320, with PG thread to DIN 40430.
In conjunction with sealing ring, types 107, 170 or 171, protection rating IP68 (5 bar/1 hr).
Sealing ring not contained in the scope of delivery.
* Prices according to DEL notation.

Expansion pieces

PA
M

Intermediate expansion connector, metric thread

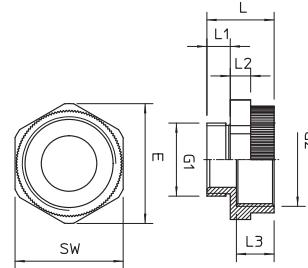
Type	External thread	Internal thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
107 E M 12-16 PA	M12	M16	Light grey	50	0.300	2031450
107 E M 16-20 PA	M16	M20	Light grey	50	0.380	2031451
107 E M 20-25 PA	M20	M25	Light grey	50	0.630	2031452
107 E M 25-32 PA	M25	M32	Light grey	50	0.970	2031453
107 E M 32-40 PA	M32	M40	Light grey	25	1.300	2031454

Intermediate expansion connector, metric internal and external thread.



Type	Dim. L mm	Dim. L1 mm	Dim. L2 mm	Dim. L3 mm	Dim. SW mm	Dim. E mm
107 E M 12-16 PA	20.5	8	5	10.5	20	22
107 E M 16-20 PA	20.5	8	5	10.5	24	26.5
107 E M 20-25 PA	21	8	6	10.5	30	33
107 E M 25-32 PA	23	8	7	12.5	37	41
107 E M 32-40 PA	25	10	7	12.5	45	49.5

Dimensions



Expansion pieces

Expansion piece, metric thread

CuZn
37 N
M

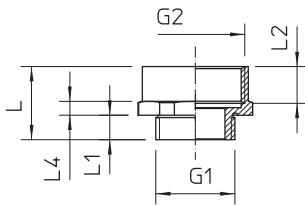


Type	External thread	Internal thread	Pack Piece	Weight kg/100 pc.	Item no.
165 ADA M12-16	M12	M16	50	1.030	2088280
165 ADA M16-20	M16	M20	50	1.430	2088281
165 ADA M20-25	M20	M25	50	2.090	2088282
165 ADA M25-32	M25	M32	50	2.710	2088283
165 ADA M32-40	M32	M40	25	5.180	2088284
165 ADA M40-50	M40	M50	10	10.150	2088285
165 ADA M 50-63	M50	M63	5	13.060	2088286

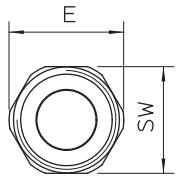
The areas of application for brass cable glands range from junction boxes as a distribution-/connection box up to large industrial applications for safe floor routing to switchgear cabinets with a control and distribution function. For high mechanical requirements, OBO can offer the entire family of extensions (Part K) to DIN 46320.

* Prices according to DEL notation.

Dimensions



Type	Dim. Dim. Dim. Dim. Dim.					
	SW	E	L	L1	L2	D
	mm	mm	mm	mm	mm	mm
165 ADA M12-16	18	20	16	5	7	8
165 ADA M16-20	22	24.5	16.7	5	8	12
165 ADA M20-25	27	29	18.5	6.4	9	15
165 ADA M25-32	34	35.8	20.7	7.4	8	20.8
165 ADA M32-40	42	45.5	23.8	8	10	26
165 ADA M40-50	52	58	30.5	8.2	12.5	33.8
165 ADA M 50-63	65	69.9	33	9.2	16	43.4





M

FESTOOL
HOLZWEINER

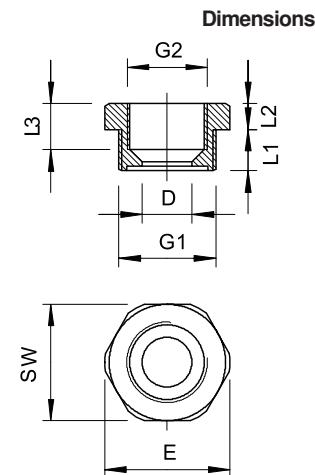
Type	External thread	Internal thread	Colour	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
107 R M20-12 PA	M20	M12	Light grey	24	100	0.500	2030616
107 R M20-16 PA	M20	M16	Light grey	24	100	0.700	2030619
107 R M25-12 PA	M25	M12	Light grey	29	100	0.850	2030624
107 R M25-16 PA	M25	M16	Light grey	29	100	0.850	2030626
107 R M25-20 PA	M25	M20	Light grey	29	100	0.650	2030628
107 R M32-12 PA	M32	M12	Light grey	36	50	1.200	2030632
107 R M32-16 PA	M32	M16	Light grey	36	50	1.100	2030634
107 R M32-20 PA	M32	M20	Light grey	36	50	1.050	2030637
107 R M32-25 PA	M32	M25	Light grey	36	50	0.783	2030640
107 R M40-16 PA	M40	M16	Light grey	46	50	2.000	2030643
107 R M40-20 PA	M40	M20	Light grey	46	50	1.850	2030646
107 R M40-25 PA	M40	M25	Light grey	46	50	1.950	2030649
107 R M40-32 PA	M40	M32	Light grey	46	50	1.400	2030652
107 R M50-20 PA	M50	M20	Light grey	55	25	2.300	2030655
107 R M50-25 PA	M50	M25	Light grey	55	25	2.250	2030659
107 R M50-32 PA	M50	M32	Light grey	55	25	2.200	2030661
107 R M50-40 PA	M50	M40	Light grey	55	25	2.050	2030664
107 R M63-25 PA	M63	M25	Light grey	68	25	3.050	2030667
107 R M63-32 PA	M63	M32	Light grey	68	25	3.070	2030670
107 R M63-40 PA	M63	M40	Light grey	68	25	3.100	2030673
107 R M63-50 PA	M63	M50	Light grey	68	25	3.000	2030675

Reduction, metric thread



Reduction, with metric internal and external thread.

Type	Dim. SW	Dim. E	Dim. L	Dim. L1	Dim. L2	Dim. L3
	mm	mm	mm	mm	mm	mm
107 R M20-12 PA	24	26.5	12	8	4	12
107 R M20-16 PA	24	26.5	12	8	4	12
107 R M25-12 PA	29	32	14	8	6	14
107 R M25-16 PA	29	32	14	8	6	14
107 R M25-20 PA	29	32	14	8	6	14
107 R M32-12 PA	36	40	16	10	6	16
107 R M32-16 PA	36	40	16	10	6	16
107 R M32-20 PA	36	40	16	10	6	16
107 R M32-25 PA	36	40	16	10	6	16
107 R M40-16 PA	46	50.5	16	10	6	16
107 R M40-20 PA	46	50.5	16	10	6	16
107 R M40-25 PA	46	50.5	16	10	6	16
107 R M40-32 PA	46	50.5	16	10	6	16
107 R M50-20 PA	55	60	18	12	6	18
107 R M50-25 PA	55	60	18	12	6	18
107 R M50-32 PA	55	60	18	12	6	18
107 R M50-40 PA	55	60	18	12	6	18
107 R M63-25 PA	68	75	18	12	6	18
107 R M63-32 PA	68	75	18	12	6	18
107 R M63-40 PA	68	75	18	12	6	18
107 R M63-50 PA	68	75	18	12	6	18



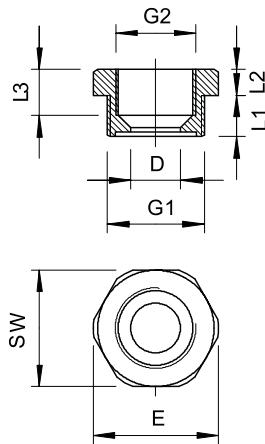
Reduction, PG thread



Type	External thread	Internal thread	Colour	Pack Piece	Weight kg/100 pc.	Item no.
107 R PG11- 7 PA	Pg 11	Pg 7	Light grey	50	0.400	2030705
107 R PG13- 9 PA	Pg 13.5	Pg 9	Light grey	50	0.450	2030713
107 R PG16- 9 PA	Pg 16	Pg 9	Light grey	50	0.600	2030748
107 R PG16-11 PA	Pg 16	Pg 11	Light grey	50	0.480	2030756
107 R PG21-11 PA	Pg 21	Pg 11	Light grey	50	0.910	2030764
107 R PG21-13 PA	Pg 21	Pg 13.5	Light grey	50	0.800	2030772
107 R PG21-16 PA	Pg 21	Pg 16	Light grey	50	0.650	2030780
107 R PG29-16 PA	Pg 29	Pg 16	Light grey	50	1.460	2030799
107 R PG29-21 PA	Pg 29	Pg 21	Light grey	25	1.500	2030802
107 R PG36-21 PA	Pg 36	Pg 21	Light grey	25	2.350	2030829
107 R PG36-29 PA	Pg 36	Pg 29	Light grey	25	2.200	2030810
107 R PG42-29 PA	Pg 42	Pg 29	Light grey	25	2.350	2030837

Reduction, Pg internal and external thread to DIN 40430.

Dimensions



Type	Dim.	Dim.	Dim.	Dim.	Dim.	
	SW	D	E	L1	L2	L3
107 R PG11- 7 PA	22	7.5	24	8	6	9.5
107 R PG13- 9 PA	24	9.5	26	8.5	6	9.5
107 R PG16- 9 PA	27	9.5	29	9.5	6	11.5
107 R PG16-11 PA	27	11.5	29	9.5	6	11
107 R PG21-11 PA	32	11.5	35.5	10.5	5	11
107 R PG21-13 PA	32	13.5	35.5	10.5	5	11
107 R PG21-16 PA	32	16.5	35.5	10.5	5	11
107 R PG29-16 PA	40	16.5	40	12	6	12.5
107 R PG29-21 PA	39	21.5	40	12.5	6	13.5
107 R PG36-21 PA	50	21	54	13	6	13.5
107 R PG36-29 PA	50	28.5	54	18	6	18
107 R PG42-29 PA	55	27.5	59	16	6	17

CuZn
37
N

M

Reduction, metric thread

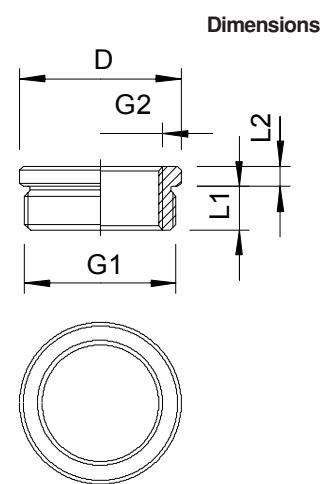
Type	External thread	Internal thread	Dim. D mm	Thread length mm	Dim. L2 mm	Pack Piece	Weight kg/100 pc.	Item no.
167 R MS M16-12	M16	M12	20	6	2.5	50	0.880	2089505
167 R MS M20-12	M20	M12	24	6.5	3.5	50	1.340	2089513
167 R MS M20-16	M20	M16	24	6.5	3.5	50	1.134	2089521
167 R MS M25-16	M25	M16	30	7	3	50	3.220	2089548
167 R MS M25-20	M25	M20	30	7	3	50	2.102	2089556
167 R MS M32-20	M32	M20	39	8	3.5	50	6.120	2089564
167 R MS M32-25	M32	M25	39	8	3.5	50	4.500	2089572
167 R MS M40-25	M40	M25	50	6	3.5	25	9.960	2089580
167 R MS M40-32	M40	M32	50	9	3.5	25	6.840	2089599
167 R MS M50-32	M50	M32	57	10	4	25	16.300	2089602
167 R MS M50-40	M50	M40	57	10	4	25	10.250	2089610
167 R MS M63-40	M63	M40	64	10	4	10	30.080	2089629
167 R MS M63-50	M63	M50	64	10	4	10	10.090	2089637



Reduction (Part H) in accordance with DIN 46320, with metric thread to DIN EN 60423 or ISO 68.

* Prices according to DEL notation.

Type	Dim. mm	Dim. mm	Dim. mm
	L1	L2	D
167 R MS M16-12	6	2.5	20
167 R MS M20-12	6.5	3.5	24
167 R MS M20-16	6.5	3.5	24
167 R MS M25-16	7	3	30
167 R MS M25-20	7	3	30
167 R MS M32-20	8	3.5	39
167 R MS M32-25	8	3.5	39
167 R MS M40-25	9	3.5	50
167 R MS M40-32	9	3.5	50
167 R MS M50-32	10	4	57
167 R MS M50-40	10	4	57
167 R MS M63-40	10	4	64
167 R MS M63-50	10	4	64



Reducers

Reduction, PG thread

CuZn
37 N
Pg

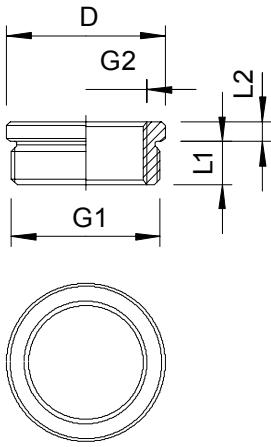


Type	Thread length mm		Pack Piece	Weight kg/100 pc.	Item no.
	6	6.5			
167 R MS PG9-7	6		50	0.430	2089025
167 R MS PG11-7	6		50	1.030	2089041
167 R MS PG11-9	6		50	0.650	2089076
167 R MS PG13-7	6.5		50	1.520	2089092
167 R MS PG13-9	6.5		50	1.120	2089114
167 R MS PG13-11	6.5		50	0.470	2089130
167 R MS PG16-9	6.5		50	1.730	2089157
167 R MS PG16-11	6.5		50	1.050	2089173
167 R MS PG16-13	6.5		50	0.656	2089203
167 R MS PG21-11	7		50	2.960	2089238
167 R MS PG21-13	7		50	2.520	2089254
167 R MS PG21-16	7		50	1.964	2089270
167 R MS PG29-16	8		50	6.560	2089297
167 R MS PG29-21	8		50	4.273	2089319
167 R MS PG36-21	9		25	11.660	2089335
167 R MS PG36-29	9		25	6.980	2089351
167 R MS PG42-36	10		25	6.750	2089408
167 R MS PG48-36	10		25	12.840	2089424
167 R MS PG48-42	10		25	6.230	2089440

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.

Dimensions

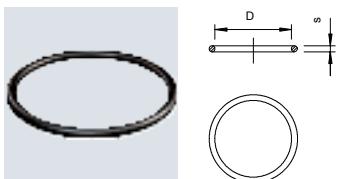


Type	Dim. Dim. Dim.			
	External thread	Internal thread	L1	D
	mm	mm	mm	mm
167 R MS PG9-7	Pg 9	Pg 7	6	2.5
167 R MS PG11-7	Pg 11	Pg 7	6	2.5
167 R MS PG11-9	Pg 11	Pg 9	6	2.5
167 R MS PG13-7	Pg 13.5	Pg 7	6.5	2.5
167 R MS PG13-9	Pg 13.5	Pg 9	6.5	2.5
167 R MS PG13-11	Pg 13.5	Pg 11	6.5	2.5
167 R MS PG16-9	Pg 16	Pg 9	6.5	3
167 R MS PG16-11	Pg 16	Pg 11	6.5	3
167 R MS PG16-13	Pg 16	Pg 13.5	6.5	3
167 R MS PG21-11	Pg 21	Pg 11	7	3
167 R MS PG21-13	Pg 21	Pg 13.5	7	3
167 R MS PG21-16	Pg 21	Pg 16	7	3
167 R MS PG29-16	Pg 29	Pg 16	8	3.5
167 R MS PG29-21	Pg 29	Pg 21	8	3.5
167 R MS PG36-21	Pg 36	Pg 21	9	3.5
167 R MS PG36-29	Pg 36	Pg 29	9	3.5
167 R MS PG42-36	Pg 42	Pg 36	10	4
167 R MS PG48-36	Pg 48	Pg 36	10	4
167 R MS PG48-42	Pg 48	Pg 42	10	4
				64

Sealing rings

O sealing ring for metric connection thread

NBR
M



Type	Dim. Dim.			Pack Piece	Weight kg/100 pc.	Item no.
	Size D mm	S mm	mm			
171 M12	M12	10	1.5	100	0.007	2088703
171 M16	M16	13	1.5	100	0.008	2088711
171 M20	M20	18	1.5	100	0.011	2088738
171 M25	M25	22	1.5	100	0.012	2088746
171 M32	M32	29	2	100	0.035	2088754
171 M40	M40	36	2	50	0.045	2088762
171 M50	M50	46	2	50	0.052	2088770
171 M63	M63	59	2	25	0.056	2088789

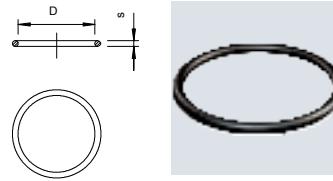
O sealing rings, suitable as connection thread sealing rings for all plastic and brass cable glands with metric connection thread to DIN EN 60423 or ISO 68. The rings can be captively pre-mounted.

NBR

Pg

O sealing ring for PG connection thread

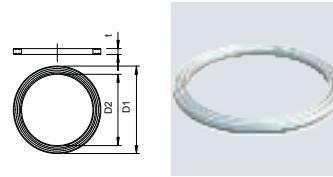
Type	Size mm	Dim. D mm	Dim. S mm	Pack Piece	Weight kg/100 pc.	Item no.
171 PG 9	Pg 9	13	1.5	100	0.008	2088819
171 PG11	Pg 11	16	1.5	100	0.010	2088827
171 PG13.5	Pg 13.5	18	1.5	100	0.011	2088835
171 PG16	Pg 16	20	1.5	100	0.012	2088843
171 PG21	Pg 21	25	2	100	0.027	2088851
171 PG29	Pg 29	33	2	100	0.035	2088878
171 PG36	Pg 36	43	2	50	0.045	2088886
171 PG42	Pg 42	50	2	50	0.052	2088894



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.

PE
M**Connection thread sealing ring, metric**

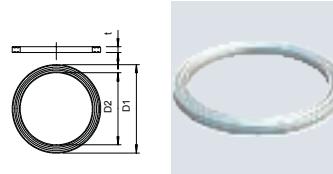
Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 F M12 PE	M12	16.3	12	1	100	0.017	2030004
107 F M16 PE	M16	20.9	16	1.1	100	0.015	2030008
107 F M20 PE	M20	25.1	20	1.1	100	0.030	2030012
107 F M25 PE	M25	31.3	25	1.4	100	0.038	2030016
107 F M32 PE	M32	37.6	32	1.7	100	0.105	2030020
107 F M40 PE	M40	49.1	40	1.7	100	0.200	2030024
107 F M50 PE	M50	60.1	50	2	100	0.250	2030028
107 F M63 PE	M63	73.8	63	2	100	0.290	2030032



Connection thread sealing ring, suitable for all plastic cable glands with metric 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 pre-mounted in a captive manner.

PE
Pg**Connection thread sealing ring, PG**

Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. t mm	Pack Piece	Weight kg/100 pc.	Item no.
107 F PG7 PE	Pg 7	16.5	12.1	1.6	100	0.010	2030071
107 F PG9 PE	Pg 9	19	14.7	1.6	100	0.013	2030098
107 F PG11 PE	Pg 11	23	18	1.8	100	0.022	2030101
107 F PG13.5 PE	Pg 13.5	25	19.8	1.8	100	0.030	2030136
107 F PG16 PE	Pg 16	27	21.8	1.8	100	0.038	2030160
107 F PG21 PE	Pg 21	34	27.5	2.2	100	0.049	2030217
107 F PG29 PE	Pg 29	44	36.2	2.2	100	0.105	2030292
107 F PG36 PE	Pg 36	55.5	46.2	2.7	100	0.200	2030365
107 F PG48 PE	Pg 48	69.5	58.5	3.2	100	0.225	2030489

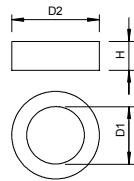


Connection thread sealing ring, in accordance with Part 9 to DIN 46320, however, dimensions may, according to material or function, deviate, suitable for all plastic cable glands with PG connection thread to DIN EN 40430, the internal diameter of the sealing rings are designed so that they can be captively pre-mounted.

Sealing rings

Reducing sealing insert, metric

NBR
SBR
M



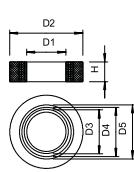
Type	Sealing range		Dim. D1	Dim. D2	Dim. H		Pack Piece	Weight kg/100 pc.	Item no.
	Size mm	D mm							
107CR VM 12	M12	2-5	5	8.9	7.2		50	0.050	2029560
107CR VM 16	M16	2.5-7	7	12.7	8.1		50	0.115	2029563
107CR VM 20	M20	4-9	9	16	9.3		50	0.205	2029566
107CR VM 25	M25	6-13	13	20.7	10.5		50	0.340	2029569
107CR VM 32	M32	11-16	16	25.7	12.3		25	0.625	2029572
107CR VM 40	M40	12-23	23	33.7	15		25	1.140	2029575
107CR VM 50	M50	18-29	29	41.7	18.5		25	2.080	2029578
107CR VM 63	M63	29-40	40	54.8	20.2		25	3.560	2029581

Reduces the sealing area D of the cable gland V-TEC VM and V-TEC VM L.

Cutting rings

Cutting ring

NBR
SBR
Pg



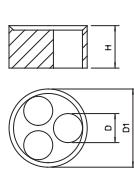
Type	Size mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm	Dim. D5 mm	Dim. H mm		Pack Piece	Weight kg/100 pc.	Item no.
107 B PG9	Pg 9	5	13.3	7.5	10	0	5.5		100	0.090	2029103
107 B PG11	Pg 11	7.5	16.5	10	12.5	0	6		100	0.132	2029111
107 B PG13.5	Pg 13.5	7.5	18.3	10	12.5	0	6		100	0.172	2029138
107 B PG16	Pg 16	7.5	20.4	10	12.5	15	7		100	0.265	2029162
107 B PG21	Pg 21	10	25.9	13	16	19	8		100	0.490	2029219
107 B PG29	Pg 29	18	34.7	21	24	27	9.5		100	0.803	2029294
107 B PG36	Pg 36	24	44.7	27	30	33	12		50	1.733	2029367
107 B PG42	Pg 42	30	51.7	33	36	39	14		50	2.345	2029421
107 B PG48	Pg 48	36	56.9	39	42	45	14		50	2.615	2029480

Rubber cutting ring (cuttable sealing ring) to DIN 46320 for cone cable gland.

Multiple sealing inserts

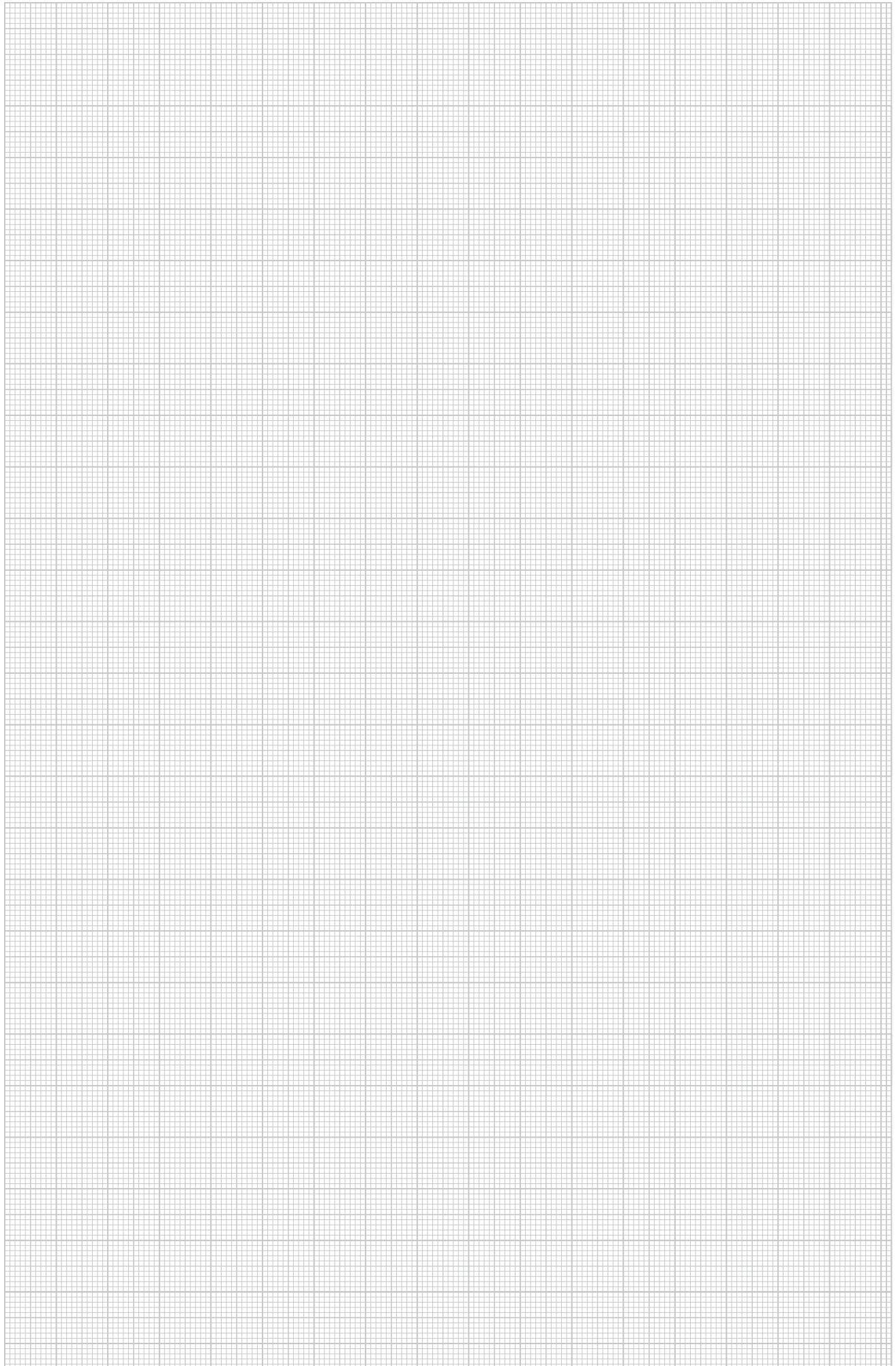
Multi-way seal insert, metric

NBR
SBR
M



Type	Size mm	Dim. D mm	Dim. H mm	Dim. D1 mm	Number of drill holes		Pack Piece	Weight kg/100 pc.	Item no.
107 C VM 20 2x4	M20	4	8.1	15.1	2		50	0.130	2029672
107 C VM 20 4x5	M20	5	8.1	15.1	4		50	0.080	2029675
107 C VM 20 2x6	M20	6	8.1	15.1	2		50	0.100	2029677
107 C VM 25 5x4	M25	4	10	19.8	5		50	0.180	2029679
107 C VM 25 3x6	M25	6	10	19.8	3		50	0.210	2029682
107 C VM 25 2x6	M25	6	10	19.8	2		50	0.260	2029685
107 C VM 25 3x7	M25	7	10	19.8	3		50	0.180	2029688
107 C VM 25 2x8	M25	8	10	19.8	2		50	0.200	2029690
107 C VM 32 2x8	M32	8	13.4	25.1	2		25	0.530	2029693
107 C VM 32 4x8	M32	8	13.4	25.1	4		25	0.400	2029696

Use to insert multiple thin cables in the V-TEC VM cable glands, is replaced with the simple sealing ring of the cable gland.



Plug-in seals

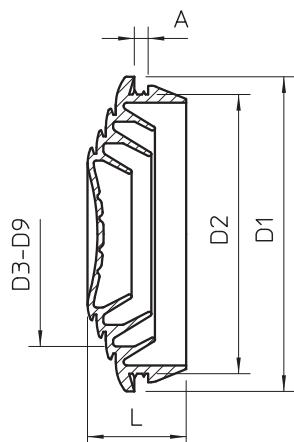
EDK plug-in seal



Type	Size mm	For Ø	Pack Piece	Weight kg/100 pc.	Item no.
EDK 25 LGR	M25	0-22	Light grey	100	0.214
EDK 32 LGR	M32	0-27	Light grey	50	0.328
EDK 40 LGR	M40	0-34	Light grey	25	0.534
EDK 25 RW	M25	0-22	Pure white	100	0.214
EDK 32 RW	M32	0-27	Pure white	50	0.328
EDK 40 RW	M40	0-34	Pure white	25	0.534

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

Dimensions



Type	Dim. mm											
	L	A	D1	Dim. mm	Dimension D6 mm	Dimension D7 mm	Dimension D8 mm	Dimension D9 mm				
EDK 25 LGR	10.1	2.2	29.5	25.4	5	10	15	18	22	—	—	—
EDK 32 LGR	11.4	2.2	36.4	32.3	5	10	15	18	22	27	—	—
EDK 40 LGR	13.4	2.2	44.1	40.2	5	10	15	18	22	27	34	—
EDK 25 RW	10.1	2.2	29.5	25.4	5	10	15	18	22	—	—	—
EDK 32 RW	11.4	2.2	36.4	32.3	5	10	15	18	22	27	—	—
EDK 40 RW	13.4	2.2	44.1	40.2	5	10	15	18	22	27	34	—

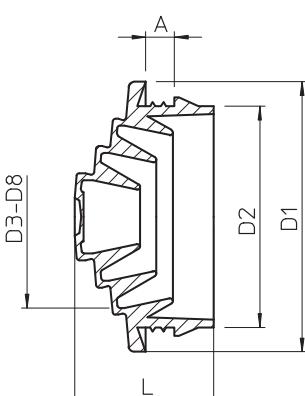
EDS plug-in seal



Type	For Ø			Pack	Weight	Item no.
	Size mm	mm	Colour	Piece	kg/100 pc.	
EDS M20 LGR	M20	0-17	Light grey	100	0.125	2012350
EDS M25 LGR	M25	0-22	Light grey	100	0.185	2012354
EDS M32 LGR	M32	0-28	Light grey	50	0.295	2012358

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

Dimensions



Type	Dim. mm										
	L	A	D1	Dim. mm	Dimension D6 mm	Dimension D7 mm	Dimension D8 mm				
EDS M20 LGR	12.8	3.1	24.8	20.3	6	10	15	17	—	—	—
EDS M25 LGR	14.5	3.1	29.5	25.3	6	10	15	20	22	—	—
EDS M32 LGR	17.8	3.1	36.3	32.3	6	10	15	20	25	28	—



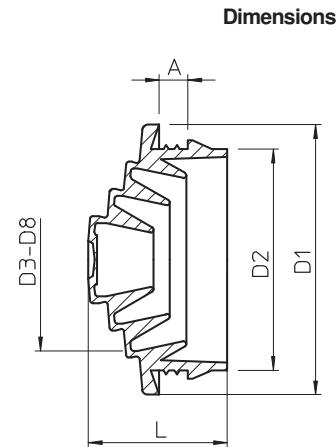
Type	Size mm	For Ø	Pack Piece	Weight kg/100 pc.	Item no.
EDVS M20 LGR	M20	0-17	Light grey	100	0.117
EDVS M25 LGR	M25	0-22	Light grey	100	0.179
EDVS M32 LGR	M32	0-28	Light grey	50	0.295

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

Plug-in seal EDVS



Type	Dim. mm									
	L	A	D1	D2	D3	D4	D5	Dimension D6	Dimension D7	Dimension D8
EDVS M20 LGR	12.8	3.4	24.8	20.3	6	10	15	17	—	—
EDVS M25 LGR	14.5	4.3	29.5	25.3	6	10	15	20	22	—
EDVS M32 LGR	17.8	4.4	36.3	32.3	6	10	15	20	25	28



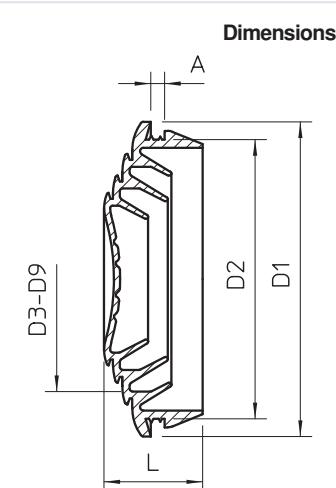
Plug-in seal for FireBox T series

Type	For Ø		Pack Piece	Weight kg/100 pc.	Item no.
	Size mm	mm			
EDK 25 OR	M25	0-22	10	0.214	7205675
EDK 32 OR	M32	0-27	10	0.328	7205677
EDK 40 OR	M40	0-34	10	0.534	7205679

The soft plug-in seal can be cut back step by step to suit the relevant cable diameter.
Colour: Pastel orange.



Type	Sealing range				
	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D mm
EDK 25 OR	10.1	2.2	29.5	25.4	0-22
EDK 32 OR	11.4	2.2	36.4	32.3	0-27
EDK 40 OR	13.4	2.2	44.1	40.2	0-34



Plug-in seals

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

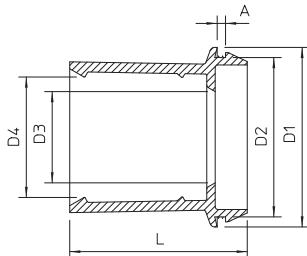
TPE
IP 55 M25 M32 M40



Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
EDR 25 16-20 LGR	M25	Light grey	50	0.520	2011506
EDR 25 20-25 LGR	M25	Light grey	50	0.680	2011514
EDR 32 25-32 LGR	M32	Light grey	50	1.170	2011530
EDR 40 32-40 LGR	M40	Light grey	25	2.200	2011546

Plug-in seal for junction boxes for direct insertion of metric pipes

Dimensions

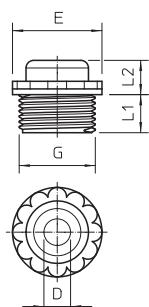


Type	Dim. L mm	Dim. A mm	Dim. D1 mm	Dim. D2 mm	Dim. D3 mm	Dim. D4 mm
EDR 25 16-20 LGR	30	2.2	29.5	25.3	15	18.4
EDR 25 20-25 LGR	30	2.2	29.5	25.3	18.5	24.2
EDR 32 25-32 LGR	36	2.2	37	32.3	24	31.2
EDR 40 32-40 LGR	49	2.2	46	42.3	31	39.2

Nipple

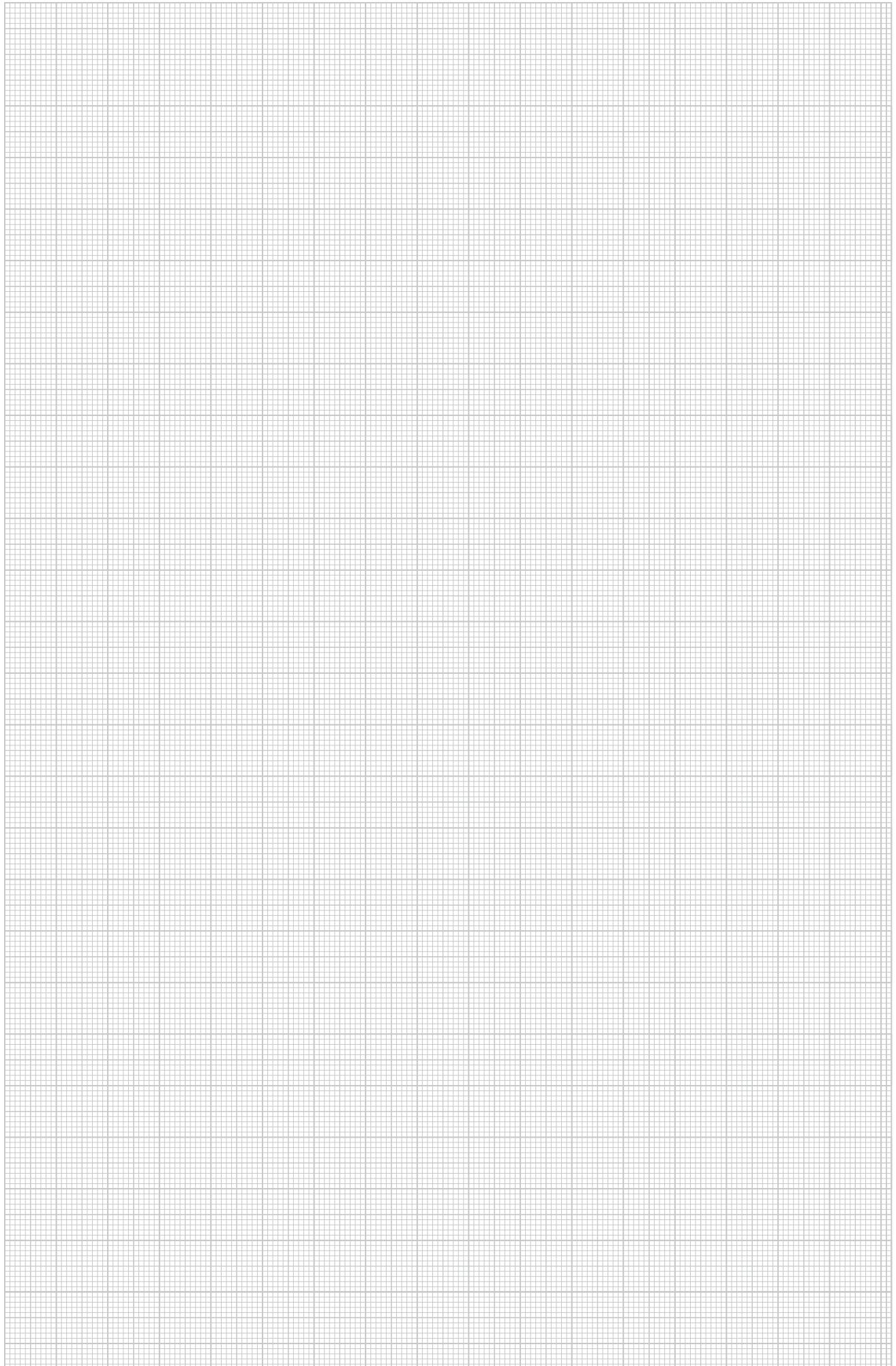
Screw-in nipple, metric thread, with perforation membrane

PE
IP 54 M

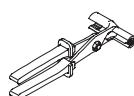


Type	Thread	Colour	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
90 M12 GE	M12x1,5	Light grey	13	100	0.170	2032378
90 M16 GE	M16x1,5	Light grey	16	100	0.192	2032380
90 M20 GE	M20x1,5	Light grey	21	100	0.268	2032382
90 M25 GE	M25x1,5	Light grey	30	50	0.513	2032384
90 M32 GE	M32x1,5	Light grey	34	25	0.694	2032386
90 M40 GE	M40x1,5	Light grey	44	10	0.875	2032388

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.



Special tongs for cable glands



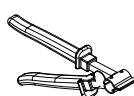
Type
186

Pack	Weight	Piece	kg/100 pc.	Item no.
1	47.000			3010104

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.

M25

Spreading pliers for sealing insert, splittable cable gland



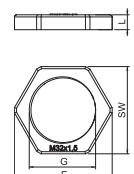
Type
V-TEC TBZ

Pack	Weight	Piece	kg/100 pc.	Item no.
1	26.000			2024900

The ideal aiding tool is the pair of spreading pliers which can be used to open the sealing insert. With this tool, inserting the individual cables is quick and easy.
Place the cable in the spreading pliers, insert the spreading pliers into the sealing separation and then open them.
Now the cable can easily be placed into the seal.

Locknuts

Locknut, metric thread

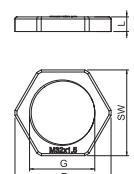


Type	Thread	Colour	Dim.			Pack	Weight	Item no.
			SW	E	L			
116 M12 LGR PA	M12x1,5	Light grey	17	19	5	100	0.100	2048906
116 M16 LGR PA	M16x1,5	Light grey	22	25	5	100	0.160	2048914
116 M20 LGR PA	M20x1,5	Light grey	26	29	6	100	0.173	2048922
116 M25 LGR PA	M25x1,5	Light grey	32	36	6.5	100	0.297	2048930
116 M32 LGR PA	M32x1,5	Light grey	41	46	7	50	0.610	2048949
116 M40 LGR PA	M40x1,5	Light grey	50	56	7	25	1.683	2048957
116 M50 LGR PA	M50x1,5	Light grey	60	68	8	25	0.890	2048965
116 M63 LGR PA	M63x1,5	Light grey	75	83	8	25	1.467	2048973

Locknut DIN 46319, with metric thread IEC 423.



Locknut, metric thread



Type	Thread	Colour	Dim.			Pack	Weight	Item no.
			SW	E	L			
116 M12 SW PA	M12x1,5	Black	17	19	5	100	0.079	2049066
116 M16 SW PA	M16x1,5	Black	22	25	5	100	0.118	2049074
116 M20 SW PA	M20x1,5	Black	26	29	6	100	0.170	2049082
116 M25 SW PA	M25x1,5	Black	32	36	6.5	100	0.266	2049090
116 M32 SW PA	M32x1,5	Black	41	46	7	50	0.610	2049104
116 M40 SW PA	M40x1,5	Black	50	56	7	25	0.602	2049112
116 M50 SW PA	M50x1,5	Black	60	68	8	25	0.896	2049120
116 M63 SW PA	M63x1,5	Black	75	83	8	25	1.259	2049139

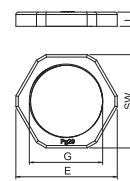
Locknut DIN 46319, with metric thread IEC 423.



PA
Pg

Locknut, PG thread

Type	Thread	Colour	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
			SW mm	E mm	L mm			
116 VDE PG7 PA	Pg 7	Light grey	19	21	5	100	0.093	2048078
116 VDE PG9 PA	Pg 9	Light grey	22	24	5	100	0.169	2048094
116 VDE PG11 PA	Pg 11	Light grey	24	26	5	100	0.184	2048116
116 VDE PG13.5PA	Pg 13.5	Light grey	27	29	6	100	0.256	2048132
116 VDE PG16 PA	Pg 16	Light grey	30	33	6	100	0.325	2048167
116 VDE PG21 PA	Pg 21	Light grey	36	39	7	100	0.466	2048221
116 VDE PG29 PA	Pg 29	Light grey	46	50	7	50	1.100	2048299
116 VDE PG36 PA	Pg 36	Light grey	60	66	8	25	1.683	2048361
116 VDE PG42 PA	Pg 42	Light grey	65	73	8	25	1.756	2048426
116 VDE PG48 PA	Pg 48	Light grey	70	78	8	25	1.830	2048485

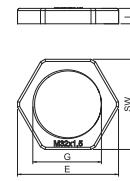


Locknut DIN 46320, with PG thread DIN 40430.

PS
M

Locknut, metric thread

Type	Thread	Colour	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
			SW mm	E mm	L mm			
116 M12 LGR PS	M12x1.5	Light grey	17	19	5	100	0.075	2049503
116 M16 LGR PS	M16x1.5	Light grey	22	25	5	100	0.120	2049511
116 M20 LGR PS	M20x1.5	Light grey	26	29	6	100	0.167	2049538
116 M25 LGR PS	M25x1.5	Light grey	32	36	6.5	100	0.260	2049546
116 M32 LGR PS	M32x1.5	Light grey	41	46	7	50	0.484	2049554
116 M40 LGR PS	M40x1.5	Light grey	50	56	7	25	0.491	2049562
116 M50 LGR PS	M50x1.5	Light grey	60	68	8	25	0.732	2049570
116 M63 LGR PS	M63x1.5	Light grey	75	83	8	25	1.029	2049589



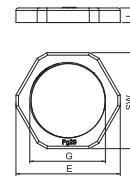
Locknut to DIN 46319, with metric thread IEC 423.

Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

PS
Pg

Locknut, PG thread

Type	Thread	Colour	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
			SW mm	E mm	L mm			
116 PG 7	Pg 7	Light grey	19	21	5	100	0.099	2043076
116 PG 9	Pg 9	Light grey	22	24	5	100	0.118	2043092
116 PG11	Pg 11	Light grey	24	26	5	100	0.113	2043114
116 PG13.5	Pg 13.5	Light grey	27	29	6	100	0.178	2043130
116 PG16	Pg 16	Light grey	30	33	6	100	0.226	2043165
116 PG21	Pg 21	Light grey	36	39	7	100	0.346	2043211
116 PG29	Pg 29	Light grey	46	50	7	50	0.573	2043297
116 PG36	Pg 36	Light grey	60	66	8	25	1.184	2043351
116 PG42	Pg 42	Light grey	65	73	8	25	1.089	2043424
116 PG48	Pg 48	Light grey	70	78	8	25	1.175	2043483



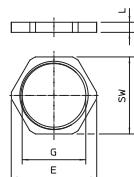
Locknut DIN 46320, with PG thread DIN 40430.

Note: Only tighten polystyrene cable glands lightly due to the risk of stress crack formation.

Locknuts

Locknut, metric thread

CuZn
37 N
M



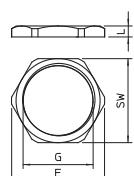
Type	Thread	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		SW mm	E mm	L mm			
169 MS M12	M12x1,5	15	16.6	3	100	0.220	2091607
169 MS M16	M16x1,5	20	22.1	2.8	100	0.310	2091615
169 MS M20	M20x1,5	24	25.6	3	100	0.580	2091623
169 MS M25	M25x1,5	30	33.2	3.5	100	0.880	2091631
169 MS M32	M32x1,5	35	38.7	4	100	1.016	2091658
169 MS M40	M40x1,5	45	49.8	4.5	50	1.920	2091666
169 MS M50	M50x1,5	55	60.4	5.5	50	3.070	2091674
169 MS M63	M63x1,5	70	77.6	6	25	5.628	2091682
169 MS M75	M75x1,5	90	100	8	3	16.800	2091685

Locknuts DIN 46319 with metric thread IEC 423.

* Prices according to DEL notation.

Locknut, PG thread

CuZn
37 N
Pg



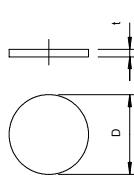
Type	Thread	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		SW mm	E mm	L mm			
169 MS PG 7	Pg 7	15	16.6	2.8	100	0.180	2091070
169 MS PG 9	Pg 9	18	20	2.8	100	0.260	2091097
169 MS PG11	Pg 11	21	23.5	3	100	0.290	2091119
169 MS PG13.5	Pg 13.5	23	25.5	3	100	0.364	2091135
169 MS PG16	Pg 16	26	29	3	100	0.460	2091151
169 MS PG21	Pg 21	32	35.5	3.5	100	0.720	2091216
169 MS PG29	Pg 29	41	45	4	100	1.320	2091291
169 MS PG36	Pg 36	51	56	5	50	2.100	2091364
169 MS PG42	Pg 42	60	65	5	50	3.266	2091429
169 MS PG48	Pg 48	64	69	5.5	25	3.270	2091488

Locknuts, part M to DIN 46320 with Pg thread to DIN 40430. * Price according to DEL notation.

Dust protection plate

Dust protection plate, metric

ZELL
PE
M



Type	Size	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		D mm	t mm	mm			
107 S VTEC M12	M12	12	1.5		100	0.001	2028870
107 S VTEC M16	M16	16	1.5		100	0.002	2028873
107 S VTEC M20	M20	20	1.5		100	0.010	2028875
107 S VTEC M25	M25	25	1.5		100	0.008	2028877
107 S VTEC M32	M32	32	1.5		100	0.012	2028880
107 S VTEC M40	M40	40	1.5		100	0.022	2028883
107 S VTEC M50	M50	50	1.5		100	0.040	2028885

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.

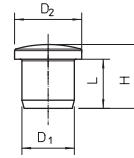
Application: the discs are pre-mounted between the cap nut and the seal. They do not need to be removed when the cable is installed, but are simply passed through to the interior with the cable.

Note: the discs do not provide any mechanical protection.

PA

Screw plug, metric and PG

Type	Size	Dim. D1 mm	Dim. L mm	Dim. D2 mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
107VS VM 5 PA	M12/Pg9	5.5	9	10	12.5	50	0.047	2029511
107VS VM 9 PA	M16/Pg13,5	9.5	12	13.5	16	50	0.090	2029514
107VS VM 12 PA	M20/Pg16	12	12	16.5	16.5	50	0.130	2029517
107VS VM 16 PA	M25/Pg21	16	15	20.5	19.5	50	0.190	2029520
107VS VM 20 PA	M32/Pg29	20	17	24.5	21.5	25	0.250	2029523
107VS VM 27 PA	M40/Pg36	27	20	32	24	10	0.353	2029529
107VS VM 35 PA	M50/Pg42	35	25	39	29	5	0.500	2029533



Screw plug in for dust-proof and waterproof closure of installed but (as yet) unfilled V-TEC... cable glands.

Sealing kit**Electrical insulating and sealing compound**

Type	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
115 GR-GN	Natural	90	10	11.020	2340038



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

Installation and fastening clips

Installation and fastening clips

Installation and fastening clips

	Quick clips	252
	Push-fit clips	262
	Fastening clips	264
	Nail fastening clips	280
	Clamp clips	282
	Accessories, clamp clips	288
	Grouped supports	290
	Pressure clips	296
	Accessories, grouped supports and pressure clips	302





Quick clip

The high-speed clip

- Extreme loading capacity
- Maximum stability
- Extremely easy mounting
- Insertion slopes
- Slot fastening
- Suitable for lining up
- Latch-in hole/middle stopper





M

VIECHT & SÖHNE

HALBZUGCLIPS

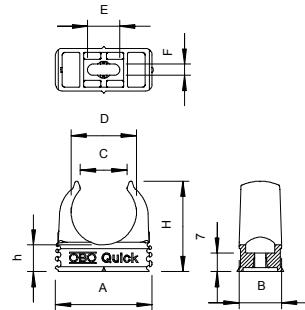
Type	Nominal size	Colour	Shipping box		Pack Piece	Weight kg/100 pc.	Item no.
2955 M16	M16	Light grey	1200		100	0.252	2149004
2955 M20	M20	Light grey	1200		100	0.325	2149010
2955 M25	M25	Light grey	1200		100	0.430	2149016
2955 M32	M32	Light grey	600		50	0.630	2149022
2955 M40	M40	Light grey	600		50	0.835	2149028
2955 M50	M50	Light grey	300		25	1.454	2149034
2955 M63	M63	Light grey	240		20	2.203	2149040

Flush-mounted clip to accept metric steel armoured pipes and heavy-duty insulating pipes, as well as Quick Pipe electrical installation pipes. Universal fastening options on walls and ceilings, both in indoor and protected outdoor areas. With slot for side alignment during mounting with wood screw or knock-in anchor. Toolless pipe mounting. Can also be arranged with OBO Multi-Quick or starQuick clip. M16 - M32 size can be screwed onto M6 thread. Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.



Type	Nominal size	Pull-out value									
		Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. N mm	Dim. value	
2955 M16	M16	25.3	16	11.5	15.5	7	4.2	25	10	75	
2955 M20	M20	30.3	16	14	19.4	9	4.2	29.5	10	90	
2955 M25	M25	36.3	16	17.5	24.3	12	4.2	34	10	100	
2955 M32	M32	46.3	16	22.4	31.4	12	4.2	42	11	120	
2955 M40	M40	57.3	16	26	39.2	11	4.6	51	12	140	
2955 M50	M50	70.3	18	32	49	12	6	63	14	165	
2955 M63	M63	87.3	20	43	61.5	12	6	74.5	15	230	

Dimensions



M

VIECHT & SÖHNE

HALBZUGCLIPS

Type	Nominal size	Colour	Pack		Weight kg/100 pc.	Item no.
2955 M16 SW	M16	Jet black	100		0.252	2149559
2955 M20 SW	M20	Jet black	100		0.325	2149563
2955 M25 SW	M25	Jet black	100		0.430	2149567
2955 M32 SW	M32	Jet black	50		0.630	2149571
2955 M40 SW	M40	Jet black	50		0.835	2149575
2955 M50 SW	M50	Jet black	25		1.454	2149579
2955 M63 SW	M63	Jet black	20		2.203	2149583

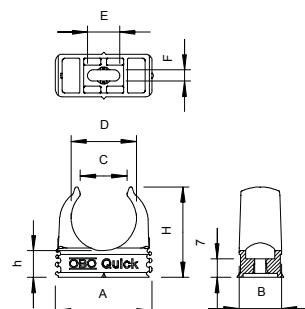
Flush-mounted clip to accept metric steel armoured pipes and heavy-duty insulating pipes, as well as Quick Pipe electrical installation pipes. Universal fastening options on walls and ceilings, both in indoor and protected outdoor areas. With slot for side alignment during mounting with wood screw or knock-in anchor. Toolless pipe mounting. Can also be arranged with OBO Multi-Quick or starQuick clip. M16 - M32 size can be screwed onto M6 thread. Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.

Quick clip, black



Type	Nominal size	Pull-out value									
		Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. N mm	Dim. value	
2955 M16 SW	M16	15	21.5	11.2	15.7	7	4.2	17.6	10	75	
2955 M20 SW	M20	30.3	16	14	19.4	9	4.2	29.5	10	90	
2955 M25 SW	M25	36.3	16	17.5	24.3	12	4.2	34	10	100	
2955 M32 SW	M32	46.3	16	22.4	31.4	12	4.2	42	11	120	
2955 M40 SW	M40	57.3	16	26	39.2	11	4.6	51	12	140	
2955 M50 SW	M50	70.3	18	32	49	12	6	63	14	165	
2955 M63 SW	M63	87.3	20	43	61.5	12	6	74.5	15	230	

Dimensions



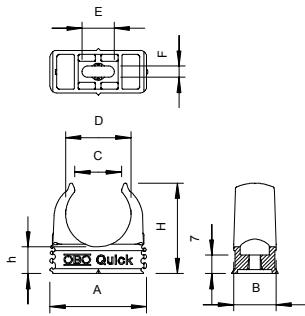
Quick clip, flame-resistant, pure white



Type	Nominal size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2955 F M16 RW	M16	Pure white	100	0.252	2149351
2955 F M20 RW	M20	Pure white	100	0.325	2149357
2955 F M25 RW	M25	Pure white	100	0.430	2149363
2955 F M32 RW	M32	Pure white	50	0.630	2149369
2955 F M40 RW	M40	Pure white	50	0.835	2149375

Flame-resistant, flush-mounted clip to accept metric steel armoured pipes and heavy-duty insulating pipes, as well as Quick Pipe electrical installation pipes. Universal fastening options on walls and ceilings, both in indoor and protected outdoor areas. With slot for side alignment during mounting with wood screw or knock-in anchor. Toolless pipe mounting. Can also be arranged with OBO Multi-Quick or starQuick clip. M16 - M32 size can be screwed onto M6 thread. Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.

Dimensions



Type	Nominal size	Pull-out								
		Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. N mm	
2955 F M16 RW	M16	25.3	16	11,5	15,5	7	4,2	25	10	75
2955 F M20 RW	M20	30,3	16	14	19,4	9	4,2	29,5	10	90
2955 F M25 RW	M25	36,3	16	17,5	24,3	12	4,2	34	10	100
2955 F M32 RW	M32	46,3	16	22,4	31,4	12	4,2	42	11	120
2955 F M40 RW	M40	57,3	16	26,0	39,2	11	4,6	51	12	140



Multi-Quick clip

The universal clamp

- PG and metric
- Easy fastening
- Secure locking
- Radial arrangement
- Simplified storage
- Clamping ranges from 15–37 mm
- Universal application



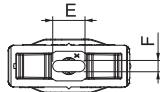
Multi-Quick clip, metric



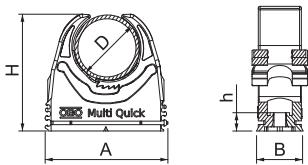
Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
M-Quick M20 LGR	16-20	Light grey	100	0.600	2153718
M-Quick M25 LGR	20-25	Light grey	50	0.930	2153726
M-Quick M32 LGR	25-32	Light grey	50	1.390	2153734

Flush-mounted clip to accept metric pipes and Quick Pipe electrical installation pipes. Flexible clamping range of several millimetres. Universal fastening options on walls and ceilings, both indoors and outdoors. Toolless pipe mounting. Can also be arranged with OBO Quick or starQuick clip.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim.
	mm	mm	mm	mm	mm	mm
M-Quick M20 LGR	27.5	15.5	8	4.1	32	7
M-Quick M25 LGR	33	15.5	8	4.1	37	7
M-Quick M32 LGR	43	15.5	8	4.1	46	7





starQuick clip

The safety clamp

- Snap lock with patented safety system
- All sizes clip together, up to size SQ28
- UV- and weatherproof polyamide
- Wall and ceiling mounting



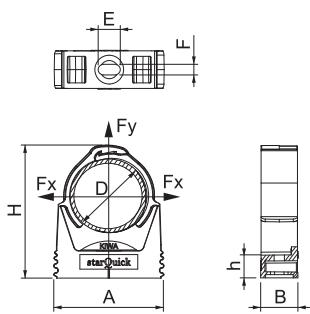
starQuick clip



Type	Clamping range D mm	Dim. Colour	Dim. E mm	Dim. F mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
SQ-10 LGR	9.5-12	Light grey	10	4.5	10.5	100	0.568	2146053
SQ-12 LGR	11.5-15	Light grey	10	4.5	10.5	100	0.540	2146061
SQ-15 LGR	14-16.5	Light grey	10	4.5	10.5	100	0.584	2146096
SQ-17 LGR	16-20	Light grey	10	4.5	10.5	100	0.640	2146118
SQ-20 LGR	19.5-23.5	Light grey	10	4.5	10.5	50	0.670	2146134
SQ-25 LGR	24-28	Light grey	10	4.5	10.5	50	0.970	2146207
SQ-28 LGR	27.5-32	Light grey	10	4.5	10.5	50	1.070	2146215
SQ-32 LGR	31.2-35.8	Light grey	10	4.5	10.5	50	1.230	2146258
SQ-36 LGR	35-40.1	Light grey	10	4.5	10.5	25	1.510	2146290
SQ-40 LGR	39.3-44.5	Light grey	10	4.5	10.5	25	1.710	2146320
SQ-47 LGR	44-50	Light grey	10	4.5	10.5	25	1.980	2146363
SQ-51 LGR	48-55	Light grey	10	4.5	10.5	15	2.250	2146444
SQ-59 LGR	58.5-65	Light grey	10	4.5	10.5	15	3.300	2146487

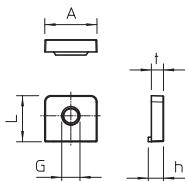
Highly stable clip to accept plastic and metal electrical and sanitary pipes, as well as the Quick Pipe electrical installation pipe. Universal fastening options on walls, ceilings and steel structures, both indoors and outdoors. Flexible clamping range of several millimetres. Tool-less pipe mounting. Can be arranged up to \varnothing 28 mm, also with OBO Quick starQuick clip. For high load values, can be combined with double bracket. Can be mounted on profile rails for variable spacings and numbers of clips.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. H mm	Dim. load kN
SQ-10 LGR	9.5-12	29	17	31.6	0.5
SQ-12 LGR	11.5-15	29	17	34.5	0.55
SQ-15 LGR	14-16.5	29	17	35.7	0.6
SQ-17 LGR	16-20	29	17	39.8	0.7
SQ-20 LGR	19.5-23.5	29	17	43.5	0.8
SQ-25 LGR	24-28	40	17	49.5	0.85
SQ-28 LGR	27.5-32	40	17	52.8	0.9
SQ-32 LGR	31.2-35.8	43	17	57.3	1
SQ-36 LGR	35-40.1	47	17	65.8	1.1
SQ-40 LGR	39.3-44.5	52	17	69.5	1.2
SQ-47 LGR	44-50	57	17	75.5	1.2
SQ-51 LGR	48-55	63	17	81	1.4
SQ-59 LGR	58.5-65	74	20	94.3	1.5

starQuick nut



Type	Nominal size	Dim. A mm	Dim. L mm	Dim. Dim. t mm	Dim. dim. mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SQ M6	M6	17	15	5	4	Light grey	100	0.070	2146509

Nut for insertion in starQuick clip, to mount the clip on an M6 thread.



Installation and fastening clips



Quick clip, aluminium

OBO's aluminium Quick clip offers installers a high-quality means of fastening electrical installation pipes. The ingenious design of this product allows fast, easy installation on walls and ceilings. The clip boasts impressively high holding forces.

- Strong clip holding forces thanks to optimised geometry
- Centre mark around slot for easy alignment
- Pipe centring aids for easy insertion of the pipe
- Modern, attractive design



Quick clip, aluminium

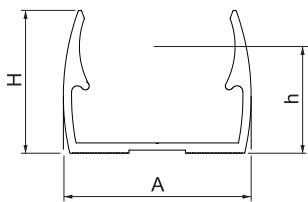


Type	Nominal size	Shipping		Pack Piece	Weight kg/100 pc.	Item no.
		box	Piece			
ALQ M16	16	1200		100	0.780	2149916
ALQ M20	20	1200		100	0.900	2149920
ALQ M25	25	100		100	1.110	2149925
ALQ M32	32	600		50	1.600	2149932
ALQ M40	40	50		50	2.400	2149940
ALQ M50	50	300		25	2.730	2149950
ALQ M63	63	20		20	3.340	2149963

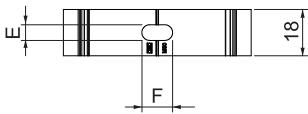
OBO Quick clip, type ALQ M, for all metric ALU pipe systems, as well as light-duty and heavy-duty insulation pipes. Suitable for mounting the OBO pipe system, material: aluminium. Pipe centring aids allow optimal attachment of the pipe and automatically turn the clip into the correct position.

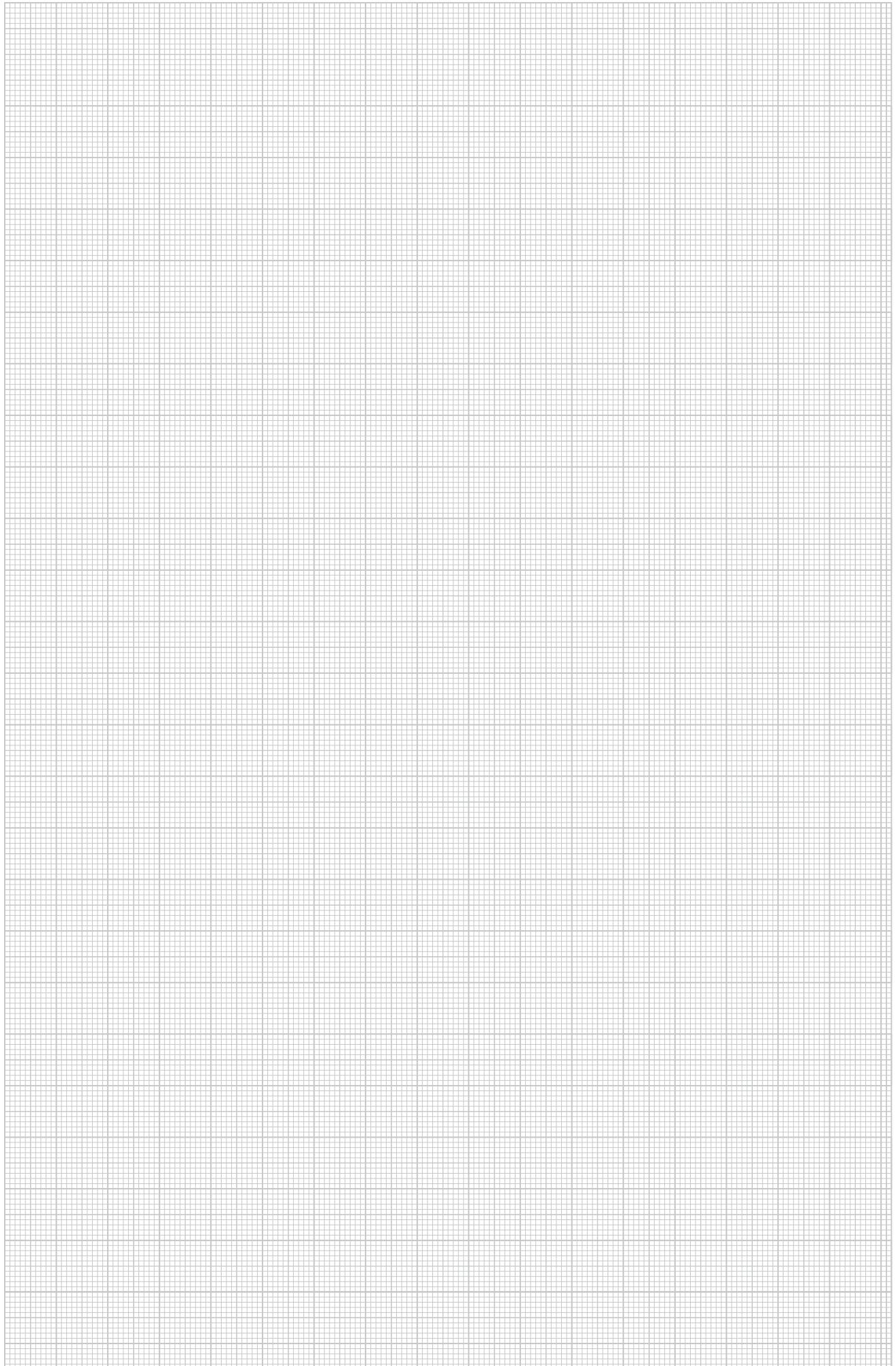
Slot for side alignment during mounting with wood screw or knock-in anchor.
Recommended fastening spacing 50–60 cm.

Dimensions



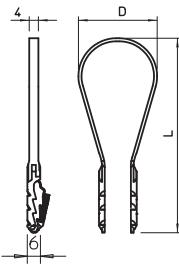
Type	Dim. Dim. Dim. Dim. Dim.					
	A	B	E	F	H	Dim.
ALQ M16	22	18	5.1	9.5	25	18.5
ALQ M20	25	18	5.1	9.5	27.5	20
ALQ M25	31	18	5.1	9.5	30	22
ALQ M32	39	18	5.1	9.5	35	26
ALQ M40	50	18	6.1	12	42	30.5
ALQ M50	60	18	6.1	12	46.5	33.5
ALQ M63	73	18	6.1	12	55.5	41.5





Push-fit anchor

BKS clamp clip

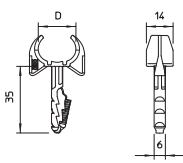


Type	Clamping range D mm	Dim. L mm	Dim. D mm	Dim. N	Pull-value	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1973 3-13 LGR	3-13	52	13	500	Light grey	100	0.089	2148803	
1973 8-28 LGR	8-28	70	27	500	Light grey	100	0.122	2148846	
1973 20-40 LGR	20-40	89	36	500	Light grey	100	0.150	2148862	

For cables, flexible pipes and all kinds of insulating and armoured steel pipes, suitable for concrete, calcareous limestone and full brick. Use in gas concrete masonry is possible, but reduced load capacities must be expected.



Snap clip

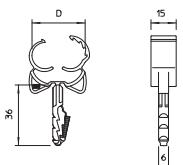


Type	Clamping range D mm	Drill hole depth mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1975 12-15	12-15	40	Light grey	100	0.251	2148021
1975 16-19	16-19	40	Light grey	100	0.372	2148048
1975 19-22	19-22.5	40	Light grey	100	0.533	2148056

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

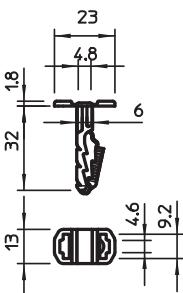


Type	Clamping range D mm	Breaking load for concrete N	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1976 12-15	12-15.5	190 N	Light grey	100	0.245	2148501
1976 16-21	16-21.5	500 N	Light grey	100	0.443	2148528
1976 22-28	22.5-28.5	500 N	Light grey	100	0.781	2148536

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.



Push-fit anchor for cable ties



Type	Drill hole depth mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
910 STK 6x30	35	Light grey	100	0.108	2351609

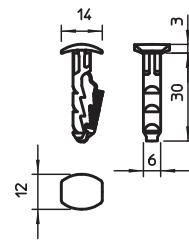
The push-fit anchor can accept a cable tie (type 550 or 555) up to 9 mm wide, which can be used to install several cables and pipes. Suitable for concrete, lime sandstone and brickwork as solid brick. Use in gas concrete masonry is possible, but reduced load capacities must be expected.





Type	Dowel Ø mm	Length mm	Drill hole depth mm	Pack Piece	Weight kg/100 pc.	Item no.
910 STP 6x30	6	30	35	100	0.101	2351412

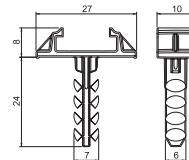
The push-fit anchor allows simple mounting, e.g. of labelling panels or small WDK ducts. Suitable for concrete, lime sandstone and brickwork as solid brick. Use in gas concrete masonry is possible, but reduced load capacities must be expected.



Ø6

Type	Dowel Ø mm	Length mm	Drill hole depth mm	Pack Piece	Weight kg/100 pc.	Item no.
910 STQS 6x26	6	26	30	100	0.110	2351650

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.



Cable and pipe spacer clips

Safe fastening of cables and pipe systems on walls, on floors and on ceilings. The distance from the fastening substrate can be adjusted variably using the thread on the screw or a custom-length threaded rod. M6 bolt ties, angler anchors or Sprint screws (to be

ordered separately) are required for fastening. Tested and approved in systems for maintaining electrical functionality of classes E30 to E90 according to DIN 4102 Part 12.



**Cable and pipe spacer clip 732
with M6 threaded connection**

E30 E90



Cable and pipe spacer clip 733



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 G	5-6	25	1.136	1362404
ASG 732 7 G	6-7	25	1.341	1362406
ASG 732 8 G	7-8	25	1.349	1362408
ASG 732 10 G	8-10	25	1.504	1362410
ASG 732 12 G	10-12	25	1.567	1362412
ASG 732 14 G	12-14	25	1.638	1362414
ASG 732 17 G	14-17	25	1.793	1362417
ASG 732 20 G	17-20	25	1.895	1362420
ASG 732 25 G	20-25	25	2.145	1362424
ASG 732 30 G	25-30	20	3.157	1362428
ASG 732 36 G	30-36	20	3.664	1362432
ASG 732 44 G	36-44	20	4.002	1362436
ASG 732 53 G	44-53	20	4.713	1362440
ASG 732 63 G	53-63	20	5.231	1362444

Spacer clip 732

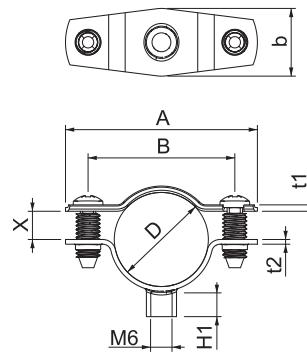


Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via attachment piece with internal thread.

Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Type	Clamping range D mm	Dim. A mm		Dim. B mm		Dim. x mm		Dim. b mm		Dimen. sion1 mm		Dimen. sion2 mm		Dim. H1 mm	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
ASG 732 6 G	5-6	35	23	1.5	18	1	1.25	6.5							
ASG 732 7 G	6-7	35	23	1.5	18	1	1.25	6.5							
ASG 732 8 G	7-8	35	23	1.5	18	1	1.25	6.5							
ASG 732 10 G	8-10	37	25	3	18	1	1.25	6.5							
ASG 732 12 G	10-12	39	27	3	18	1	1.25	6.5							
ASG 732 14 G	12-14	41	29	3	18	1	1.25	6.5							
ASG 732 17 G	14-17	44	32	4.5	18	1	1.25	6.5							
ASG 732 20 G	17-20	47	35	4.5	18	1	1.25	6.5							
ASG 732 25 G	20-25	51	39	7.5	18	1	1.25	6.5							
ASG 732 30 G	25-30	59	45	7.5	18	1.5	1.5	6.5							
ASG 732 36 G	30-36	65	51	9	18	1.5	1.5	6.5							
ASG 732 44 G	36-44	73	59	12	18	1.5	1.5	6.5							
ASG 732 53 G	44-53	84	70	13.5	18	1.5	1.5	6.5							
ASG 732 63 G	53-63	94	80	15	18	1.5	1.5	6.5							

Dimensions



Spacer fastening clips

Spacer clip 732



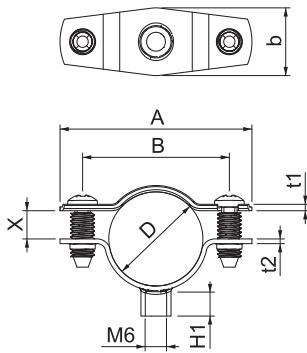
St	FT				
E30	E60	E90	Wrench	Nail gun	Icon

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 FT	5-6	25	1.398	1362354
ASG 732 7 FT	6-7	25	1.415	1362356
ASG 732 8 FT	7-8	25	1.424	1362358
ASG 732 10 FT	8-10	25	1.585	1362360
ASG 732 12 FT	10-12	25	1.653	1362362
ASG 732 14 FT	12-14	25	1.729	1362364
ASG 732 17 FT	14-17	25	1.892	1362367
ASG 732 20 FT	17-20	25	2.002	1362369
ASG 732 25 FT	20-25	25	2.261	1362372
ASG 732 30 FT	25-30	20	3.309	1362374
ASG 732 36 FT	30-36	20	3.840	1362378
ASG 732 44 FT	36-44	20	4.197	1362382
ASG 732 53 FT	44-53	20	4.942	1362386
ASG 732 63 FT	53-63	20	5.492	1362389

Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Surfaces G and FT from a clip size of 20 are suitable for the installation with a nail device or a bolt-firing tool.

Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90.

Dimensions



Type	Clamping range D mm	Dim. A mm		Dim. B mm		Dim. x mm		Dim. b mm		Dimen- sion t1 mm		Dimen- sion t2 mm		Dim. H1 mm	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
ASG 732 6 FT	5-6	35	23	1.5	18	1	1	1.25	6.5						
ASG 732 7 FT	6-7	35	23	1.5	18	1	1	1.25	6.5						
ASG 732 8 FT	7-8	35	23	1.5	18	1	1	1.25	6.5						
ASG 732 10 FT	8-10	37	25	3	18	1	1	1.25	6.5						
ASG 732 12 FT	10-12	39	27	3	18	1	1	1.25	6.5						
ASG 732 14 FT	12-14	41	29	3	18	1	1	1.25	6.5						
ASG 732 17 FT	14-17	44	32	4.5	18	1	1	1.25	6.5						
ASG 732 20 FT	17-20	47	35	4.5	18	1	1	1.25	6.5						
ASG 732 25 FT	20-25	51	39	7.5	18	1	1	1.25	6.5						
ASG 732 30 FT	25-30	59	45	7.5	18	1.5	1.5	1.5	6.5						
ASG 732 36 FT	30-36	65	51	9	18	1.5	1.5	1.5	6.5						
ASG 732 44 FT	36-44	73	59	12	18	1.5	1.5	1.5	6.5						
ASG 732 53 FT	44-53	84	70	13.5	18	1.5	1.5	1.5	6.5						
ASG 732 63 FT	53-63	94	80	15	18	1.5	1.5	1.5	6.5						



Spacer clip 732

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 A2	5-6	25	1.537	1362622
ASG 732 7 A2	6-7	25	1.553	1362624
ASG 732 8 A2	7-8	25	1.561	1362626
ASG 732 10 A2	8-10	25	1.749	1362628
ASG 732 12 A2	10-12	25	1.796	1362630
ASG 732 14 A2	12-14	25	1.859	1362632
ASG 732 17 A2	14-17	25	2.007	1362634
ASG 732 20 A2	17-20	25	2.110	1362636
ASG 732 25 A2	20-25	25	2.361	1362638
ASG 732 30 A2	25-30	20	3.321	1362640
ASG 732 36 A2	30-36	20	3.728	1362642
ASG 732 44 A2	36-44	20	4.099	1362644
ASG 732 53 A2	44-53	20	4.781	1362646
ASG 732 63 A2	53-63	20	5.301	1362648

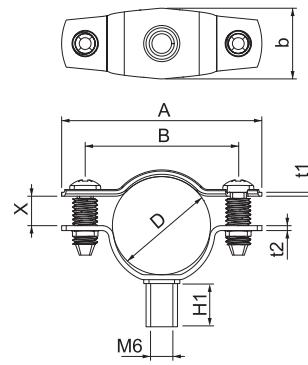


Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Surfaces G and FT from a clip size of 20 are suitable for the installation with a nail device or a bolt-firing tool.

Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. x mm	Dim. b mm	Dim. t1 mm	Dim. t2 mm	Dim. H1 mm
ASG 732 6 A2	5-6	35	23	1.5	18	1	1.25	12
ASG 732 7 A2	6-7	35	23	1.5	18	1	1.25	12
ASG 732 8 A2	7-8	35	23	1.5	18	1	1.25	12
ASG 732 10 A2	8-10	37	25	3	18	1	1.25	12
ASG 732 12 A2	10-12	39	27	3	18	1	1.25	12
ASG 732 14 A2	12-14	41	29	3	18	1	1.25	12
ASG 732 17 A2	14-17	44	32	4.5	18	1	1.25	12
ASG 732 20 A2	17-20	47	35	4.5	18	1	1.25	12
ASG 732 25 A2	20-25	51	39	7.5	18	1	1.25	12
ASG 732 30 A2	25-30	59	45	7.5	18	1.5	1.5	12
ASG 732 36 A2	30-36	65	51	9	18	1.5	1.5	12
ASG 732 44 A2	36-44	73	59	12	18	1.5	1.5	12
ASG 732 53 A2	44-53	84	70	13.5	18	1.5	1.5	12
ASG 732 63 A2	53-63	94	80	15	18	1.5	1.5	12

Dimensions



Spacer clip 733



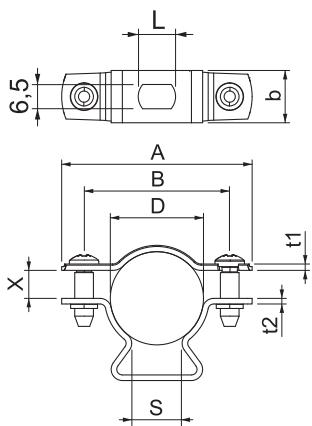
St	G		
E30	E60	E90	Y

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 G	8-10	25	1.794	1362754
ASL 733 12 G	10-12	25	1.857	1362756
ASL 733 14 G	12-14	25	1.936	1362758
ASL 733 17 G	14-17	25	2.099	1362762
ASL 733 20 G	17-20	25	2.201	1362764
ASL 733 25 G	20-25	25	2.419	1362768
ASL 733 30 G	25-30	20	3.401	1362772
ASL 733 36 G	30-36	20	3.774	1362776
ASL 733 44 G	36-44	20	4.151	1362780
ASL 733 53 G	44-53	20	5.616	1362784
ASL 733 63 G	53-63	20	6.212	1362788

Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via slot

Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. x mm	Dim. sion t1 mm	Dim. sion t2 mm	Dim. L mm	Dim. b mm	Dim. sion s mm
ASL 733 10 G	37	25	3	1	1.5	10	16	5.5
ASL 733 12 G	39	27	3	1	1.5	10	14	6.9
ASL 733 14 G	41	29	3	1	1.5	10	14	8
ASL 733 17 G	44	32	4.5	1	1.5	10	14	9.5
ASL 733 20 G	47	35	4.5	1	1.5	10	14	12
ASL 733 25 G	51	39	7.5	1	1.5	10	14	13.5
ASL 733 30 G	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 G	65	51	9	1.5	1.5	10	16	20
ASL 733 44 G	73	59	12	1.5	1.5	10	16	24
ASL 733 53 G	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 G	94	80	15	1.5	2	10	16	35.3



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 FT	8-10	25	1.883	1362704
ASL 733 12 FT	10-12	25	1.951	1362706
ASL 733 14 FT	12-14	25	2.035	1362708
ASL 733 17 FT	14-17	25	2.206	1362712
ASL 733 20 FT	17-20	25	2.000	1362714
ASL 733 25 FT	20-25	25	2.540	1362718
ASL 733 30 FT	25-30	20	3.567	1362722
ASL 733 36 FT	30-36	20	3.956	1362726
ASL 733 44 FT	36-44	20	4.356	1362730
ASL 733 53 FT	44-53	20	5.850	1362734
ASL 733 63 FT	53-63	20	6.477	1362738

Spacer clip 733

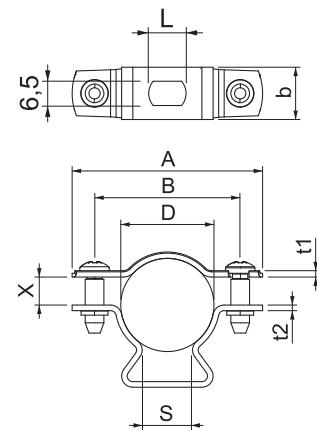


Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via slot

Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Type	Dim. A mm	Dim. B mm	Dim. x mm	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. L mm	Dim. b mm	Dimen- sion s mm
ASL 733 10 FT	37	25	3	1	1.5	10	16	5.5
ASL 733 12 FT	39	27	3	1	1.5	10	14	6.9
ASL 733 14 FT	41	29	3	1	1.5	10	14	8
ASL 733 17 FT	44	32	4.5	1	1.5	10	14	9.5
ASL 733 20 FT	47	35	4.5	1	1.5	10	14	12
ASL 733 25 FT	51	39	7.5	1	1.5	10	14	13.5
ASL 733 30 FT	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 FT	65	51	9	1.5	1.5	10	16	20
ASL 733 44 FT	73	59	12	1.5	1.5	10	16	24
ASL 733 53 FT	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 FT	94	80	15	1.5	2	10	16	35.3

Dimensions



Spacer clip 733

VA
E30 E60 E90 

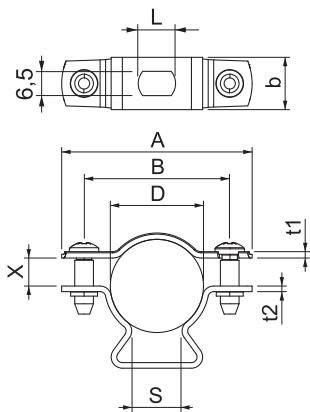


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 A2	8-10	25	1.804	1362976
ASL 733 12 A2	10-12	25	1.867	1362978
ASL 733 14 A2	12-14	25	1.946	1362980
ASL 733 17 A2	14-17	25	2.110	1362982
ASL 733 20 A2	17-20	25	2.213	1362984
ASL 733 25 A2	20-25	25	2.432	1362986
ASL 733 30 A2	25-30	20	3.416	1362988
ASL 733 36 A2	30-36	20	3.792	1362990
ASL 733 44 A2	36-44	20	4.170	1362992
ASL 733 53 A2	44-53	20	5.643	1362994
ASL 733 63 A2	53-63	20	6.242	1362996

Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking cover. Fastening via slot

Approved for the maintenance of electrical function according to DIN 4102 Part 12, maintenance of electrical function classes E 30 to E 90.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. x mm	Dimen- sion t1 mm	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. L mm	Dim. b mm	Dimen- sion s mm
ASL 733 10 A2	37	25	3	1	1	1.5	10	16	5.5
ASL 733 12 A2	39	27	3	1	1.5	1.5	10	14	6.9
ASL 733 14 A2	41	29	3	1	1.5	1.5	10	14	8
ASL 733 17 A2	44	32	4.5	1	1.5	1.5	10	14	9.5
ASL 733 20 A2	47	35	4.5	1	1.5	1.5	10	14	12
ASL 733 25 A2	51	39	7.5	1	1.5	1.5	10	14	13.5
ASL 733 30 A2	59	45	7.5	1.5	1.5	1.5	10	16	16.5
ASL 733 36 A2	65	51	9	1.5	1.5	1.5	10	16	20
ASL 733 44 A2	73	59	12	1.5	1.5	1.5	10	16	24
ASL 733 53 A2	84	70	13.5	1.5	2	2	10	16	29.5
ASL 733 63 A2	94	80	15	1.5	2	2	10	16	35.3



Spacer clip 733

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 ALU	8-10	25	0.917	1362804
ASL 733 12 ALU	10-12	25	0.938	1362806
ASL 733 14 ALU	12-14	25	0.965	1362808
ASL 733 17 ALU	14-17	25	1.062	1362812
ASL 733 20 ALU	17-20	25	1.097	1362814
ASL 733 25 ALU	20-25	25	1.254	1362818
ASL 733 30 ALU	25-30	20	1.592	1362822
ASL 733 36 ALU	30-36	20	1.802	1362826
ASL 733 44 ALU	36-44	20	1.931	1362830
ASL 733 53 ALU	44-53	20	2.537	1362834
ASL 733 63 ALU	53-63	20	2.742	1362838

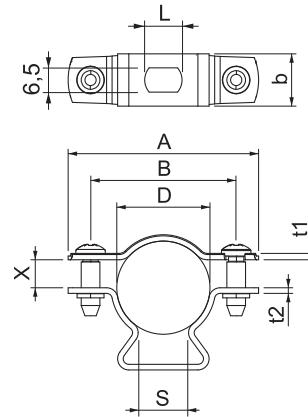


Spacer clip for the installation of pipes and cables on walls, ceilings and floors. With self-locking upper part. Fastening via slot. From the clip size of 20 suitable for the installation with a nail device or bolt-firing device.

Approved for the maintenance of electrical function to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90 (except ALU).

Type	Dim. A mm	Dim. B mm	Dim. x mm	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. L mm	Dim. b mm	Dimen- sion s mm
ASL 733 10 ALU	37	25	3	1	1.5	10	16	5.5
ASL 733 12 ALU	39	27	3	1	1.5	10	14	6.9
ASL 733 14 ALU	41	29	3	1	1.5	10	14	8
ASL 733 17 ALU	44	32	4.5	1	1.5	10	14	9.5
ASL 733 20 ALU	47	35	4.5	1	1.5	10	14	12
ASL 733 25 ALU	51	39	7.5	1	1.5	10	14	13.5
ASL 733 30 ALU	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 ALU	65	51	9	1.5	1.5	10	16	20
ASL 733 44 ALU	73	59	12	1.5	1.5	10	16	24
ASL 733 53 ALU	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 ALU	94	80	15	1.5	2	10	16	35.3

Dimensions



Fastening clip 604, light-duty



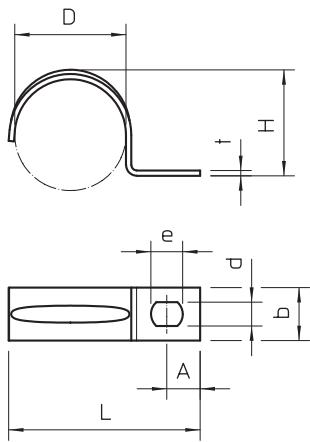
Type	For Ø mm	Hole size mm	Material thickness mm	Pack	Weight	Item no.
				Piece	kg/100 pc.	
604 3 G	3	4,5x6	0.7	100	0.052	1003038
604 4 G	4	4,5x6	0.7	100	0.067	1003046
604 5 G	5	4,5x6	0.7	100	0.084	1003054
604 6 G	6	4,5x6	0.7	100	0.099	1003062
604 7 G	7	4,5x6	0.7	100	0.120	1003070
604 8 G	8	4,5x6	0.7	100	0.123	1003089
604 9 G	9	4,5x6	0.7	100	0.139	1003097
604 10 G	10	4,5x6	0.7	100	0.150	1003100
604 11 G	11	4,5x6	1	100	0.270	1003119
604 12 G	12	4,5x6	0.7	100	0.240	1003127
604 13 G	13	4,5x6	1	100	0.280	1003135
604 16 G	16	4,5x6	1	100	0.348	1003178
604 19 G	19	4,5x6	1	100	0.411	1003194
604 20 G	20	4,5x6	1	100	0.431	1003208
604 21 G	21	4,5x6	1	100	0.447	1003216
604 23 G	23	4,5x6	1	100	0.490	1003232
604 25 G	25	4,5x6	1	100	0.900	1003259
604 28 G	28	4,5x6	1	100	0.874	1003283
604 32 G	32	4,5x6	1	100	1.462	1003321
604 35 G	35	5,5x7	1.5	100	1.355	1003356
604 37 G	37	5,5x7	1.5	100	1.567	1003372
604 40 G	40	5,5x7	1.5	100	1.860	1003402
604 47 G	47	5,5x7	1.5	50	2.484	1003461

Single-lobe fastening clip for cables and pipes.

* Sizes 3 and 4 are not suitable for nail device

* Sizes 3 to 21 are not suitable for bolt-firing tool

Dimensions



Type	Dim. L mm	Dim. A mm	Dim. e mm	Dim. d mm	Dim. b mm	Dim. D mm	Dim. t mm	Dim. H mm
	mm							
604 3 G	12	4	6	4.5	7	3	0.7	2.4
604 4 G	14	4	6	4.5	7	4	0.7	3.3
604 5 G	16.5	5	6	4.5	7	5	0.7	4.5
604 6 G	17.5	5	6	4.5	8	6	0.7	5.2
604 7 G	19.5	5	6	4.5	8	7	0.7	6.5
604 8 G	21	5.5	6	4.5	8	8	0.7	7
604 9 G	21.5	5.75	6	4.5	8	9	0.7	8
604 10 G	22	5	6	4.5	8	10	0.7	9
604 11 G	24	5.5	6	4.5	10	11	1	10
604 12 G	27	6.5	6	4.5	10	12	0.7	11
604 13 G	27	6	6	4.5	10	13	1	11.5
604 16 G	31	6.5	6	4.5	10	16	1	14.5
604 19 G	33	6.5	6	4.5	10	19	1	17
604 20 G	35	6.3	6	4.5	10	20	1	18
604 21 G	36	6.3	6	4.5	10	21	1	19
604 23 G	39	7	6	4.5	10	23	1	21.5
604 25 G	41.34	7	6	4.5	15	25	1	23
604 28 G	45	7	6	4.5	15	28	1	24.8
604 32 G	48.82	8	7	5.5	15	32	1.5	30
604 35 G	54	8.75	7	5.5	14	35	1.5	30
604 37 G	56	7.5	7	5.5	14	37	1.5	34
604 40 G	63	10.5	7	5.5	14	40	1.5	38
604 47 G	69	10	7	5.5	14	47	1.5	43.8



Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
1015 6 A2	6	6,5	1,5	100	0.341	1008633
1015 7 A2	7	6,5	1,5	100	0.420	1008641
1015 8 A2	8	6,5	1,5	100	0.428	1008668
1015 10 A2	10	6,5	1,5	100	0.560	1008684
1015 12 A2	12	6,5	1,5	100	0.672	1008706

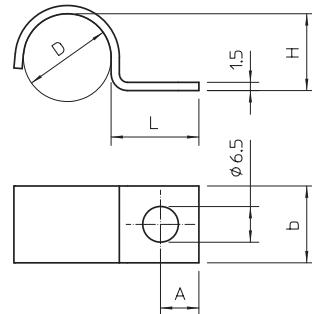
Single-lobe fastening clip for cables and pipes.

Fastening clip 1015



Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. b mm	Dim. A mm
1015 6 A2	6	16	5	12	7
1015 7 A2	7	16	6	12	7
1015 8 A2	8	16	7	12	7
1015 10 A2	10	16	9	12	7
1015 12 A2	12	16	11	14	7

Dimensions



Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
1015 5 G	5	6,5	1,5	100	0.325	1009028
1015 6 G	6	6,5	1,5	100	0.385	1009036
1015 7 G	7	6,5	1,5	100	0.418	1009044
1015 8 G	8	6,5	1,5	100	0.428	1009052
1015 9 G	9	6,5	1,5	100	0.468	1009060
1015 10 G	10	6,5	1,5	100	0.560	1009079
1015 11 G	11	6,5	1,5	100	0.632	1009087
1015 12 G	12	6,5	1,5	100	0.672	1009109
1015 13 G	13	6,5	1,5	100	0.683	1009117
1015 14 G	14	6,5	1,5	100	0.710	1009168
1015 15 G	15	6,5	1,5	100	0.744	1009184
1015 16 G	16	6,5	1,5	100	0.753	1009192
1015 17 G	17	6,5	1,5	100	0.764	1009206
1015 18 G	18	6,5	1,5	100	0.835	1009214
1015 20 G	20	6,5	1,5	100	0.921	1009230
1015 25 G	25	6,5	1,5	100	1.150	1009427
1015 28 G	28	6,5	1,5	100	1.250	1009362

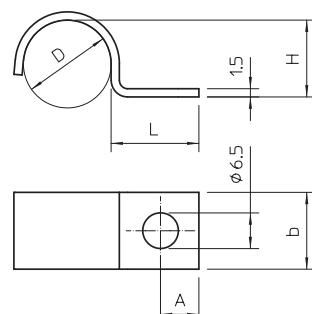
Fastening clip 1015, medium-duty



Single-lobe fastening clip for cables and pipes.
Beading from size 20.

Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. b mm	Dim. A mm
1015 5 G	5	16	4	12	7
1015 6 G	6	16	5	12	7
1015 7 G	7	16	6	12	7
1015 8 G	8	16	7	12	7
1015 9 G	9	16	8	12	7
1015 10 G	10	16	9	12	7
1015 11 G	11	16	10	14	7
1015 12 G	12	16	11	14	7
1015 13 G	13	16	12	14	7
1015 14 G	14	16	12,5	14	7
1015 15 G	15	16	13,5	14	7
1015 16 G	16	16	14	14	7
1015 17 G	17	16	15	14	7
1015 18 G	18	16	16	14	7

Dimensions



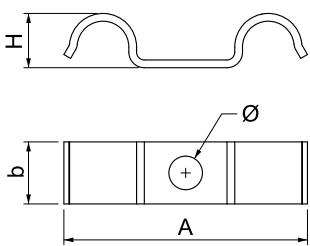
Fastening clip 1015 D



Type	Hole For Ø size mm mm		Pack Piece	Weight kg/100 pc.	Item no.
1015 D 5 G	5	6,5		100	0.600
1015 D 6 G	6	6,5		100	0.670
1015 D 7 G	7	6,5		100	1.070
1015 D 8 G	8	6,5		100	1.150
1015 D 9 G	9	6,5		100	1.220
1015 D 10 G	10	6,5		100	1.300
1015 D 12 G	12	6,5		100	1.700
1015 D 14 G	14	6,5		100	1.870
1015 D 15 G	15	6,5		100	1.980
1015 D 16 G	16	6,5		100	2.100
1015 D 18 G	18	6,5		100	2.250
1015 D 20 G	20	6,5		100	2.500
1015 D 22 G	22	6,5		100	2.650
1015 D 25 G	25	6,5		100	2.950

Fastening clip with a central fastening point for 2 cables or 2 pipes

Dimensions



Type	Dim.	Dim.	Dim.
	A	b	H
1015 D 5 G	33	12	6
1015 D 6 G	35	12	7
1015 D 7 G	41	12	8
1015 D 8 G	43	12	9
1015 D 9 G	45	12	10
1015 D 10 G	47	12	10,5
1015 D 12 G	51	14	12
1015 D 14 G	55	14	14
1015 D 15 G	58	14	15
1015 D 16 G	60	14	16
1015 D 18 G	64	14	18
1015 D 20 G	69	14	21
1015 D 22 G	72	14	22
1015 D 25 G	79	14	25





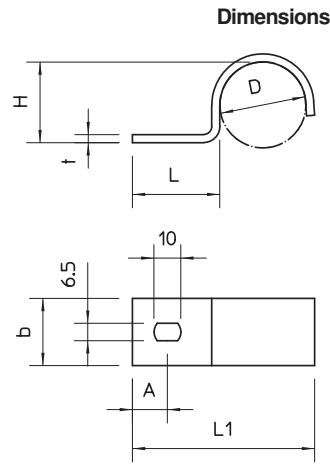
Fastening clip 822, heavy-duty

Type	For Ø mm	Hole size mm	Material thickness mm	Pack	Weight	Item no.
				Piece	kg/100 pc.	
822 6 FT	6	6.5x10	2	100	0.885	1014005
822 10 FT	10	6.5x10	2	100	1.075	1014013
822 12 FT	12	6.5x10	2	100	1.450	1014021
822 14 FT	14	6.5x10	2	100	1.600	1014048
822 16 FT	15.2	6.5x10	2	100	1.733	1014099
822 18 FT	18.6	6.5x10	2	100	1.946	1014110
822 20 FT	20	6.5x10	2	100	2.125	1014137
822 22.5 FT	22.5	6.5x10	2	50	2.338	1014161
822 25 FT	25	6.5x10	2	50	2.400	1014501
822 28.3 FT	28.3	6.5x10	2	50	4.420	1014218
822 32 FT	32	6.5x10	2	100	5.490	1014528
822 37 FT	37	6.5x10	2	100	7.100	1014293
822 40 FT	40	6.5x10	2	100	6.590	1014536
822 47 FT	47	6.5x10	3	100	8.500	1014366
822 50 FT	50	6.5x10	3	100	7.690	1014544
822 63 FT	63	6.5x10	3	100	9.260	1014552



Single-lobe fastening clip for cables and pipes.

Type	Dim. D	Dim. L	Dim. H	Dim. t	Dim. A	Dim. L1	Dim. b
	mm	mm	mm	mm	mm	mm	mm
822 6 FT	6	23.5	5	2	10	32	20
822 10 FT	10	23.5	9	2	10	36	20
822 12 FT	12	23.5	11	2	10	38.5	20
822 14 FT	14	23.5	13	2	10	40.5	20
822 16 FT	15.2	23.5	14	2	10	42	20
822 18 FT	18.6	23.5	17	2	10	45	20
822 20 FT	20	23.5	19.5	2	10	48	20
822 22.5 FT	22.5	23.5	21	2	11	49	20
822 25 FT	25	25.5	23.5	3	11	53	20
822 28.3 FT	28.3	27	26.5	3	11	60	20
822 32 FT	32	32.5	30	3	13	68	25
822 37 FT	37	30	35	3	13	70	25
822 40 FT	40	32.5	38	3	13	76	25
822 47 FT	47	30	45	3	13	81	25
822 50 FT	50	32.5	47	3	15	86	25
822 63 FT	63	33.5	60	3	15	100	25



Fastening clip 605, medium-duty

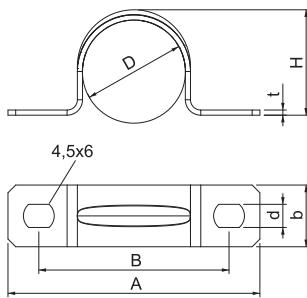


Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 7 G	7	4,5x6	1	100	0.183	1018078
605 8 G	8	4,5x6	1	100	0.203	1018086
605 9 G	9	4,5x6	1	100	0.246	1018094
605 10 G	10	4,5x6	1	100	0.432	1018108
605 11 G	11	4,5x6	1	100	0.462	1018116
605 12 G	12	4,5x6	1	100	0.485	1018124
605 13 G	13	4,5x6	1	100	0.532	1018132
605 14 G	14	4,5x6	1	100	0.560	1018140
605 15 G	15	4,5x6	1	100	0.584	1018159
605 16 G	16	4,5x6	1	100	0.585	1018167
605 17 G	17	4,5x6	1	100	0.604	1018175
605 18 G	18	4,5x6	1	100	0.640	1018183
605 19 G	19	4,5x6	1	100	0.671	1018191
605 20 G	20	4,5x6	1	100	0.664	1018205
605 21 G	21	4,5x6	1	100	0.678	1018213
605 23 G	23	4,5x6	1	100	0.826	1018221
605 25 G	25	4,5x6	1	100	0.960	1018256
605 26 G	26	4,5x6	1	100	0.975	1018264
605 28 G	28	4,5x6	1	100	1.067	1018280
605 30 G	30	4,5x6	1	100	1.150	1018302
605 32 G	32	4,5x6	1	100	1.260	1018337
605 35 G	35	5,5x7	1.5	100	1.921	1018353
605 37 G	37	5,5x7	1.5	100	2.007	1018361

Two lobe fastening clips for cables and pipes.

* Sizes 7 to 12 not suitable for bolt-firing tool.

Dimensions



Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 7 G	7	6	1	32	21	10	4.5	6
605 8 G	8	7	1	33	22	10	4.5	6
605 9 G	9	8	1	34	23	10	4.5	6
605 10 G	10	9	1	37	25	12	4.5	6
605 11 G	11	10	1	38	26	12	4.5	6
605 12 G	12	11	1	39	27	12	4.5	6
605 13 G	13	12	1	41	29	12	4.5	6
605 14 G	14	13	1	42	30	12	4.5	6
605 15 G	15	13.5	1	43	31	12	4.5	6
605 16 G	16	14.5	1	44	32	12	4.5	6
605 17 G	17	15.5	1	45	33	12	4.5	6
605 18 G	18	16.5	1	46	34	12	4.5	6
605 19 G	19	17.5	1	47	35	12	4.5	6
605 20 G	20	18.5	1	49	37	12	4.5	6
605 21 G	21	19.5	1	50	38	12	4.5	6
605 23 G	23	21	1	52	40	12	4.5	6
605 25 G	25	23	1	58	44	14	4.5	6
605 26 G	26	24	1	59	45	14	4.5	6
605 28 G	28	26	1	61	47	14	4.5	6
605 30 G	30	28	1	63	49	14	4.5	6
605 32 G	32	30	1	66	52	14	5.5	6
605 35 G	35	32	1.5	70	56	14	5.5	7
605 37 G	37	34	1.5	72	58	14	5.5	7



Fastening clip 605, medium-duty

Type	Hole For Ø mm	Material size mm	thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 40 G	40	5,5x7	1.5	50	1.900	1018396
605 43 G	43	5,5x7	1.5	50	2.324	1018434
605 47 G	47	5,5x7	1.5	50	2.366	1018477
605 50 G	50	5,5x7	1.5	25	2.770	1018507
605 55 G	55	5,5x7	1.5	25	3.840	1018558
605 60 G	60	5,5x7	1.5	25	3.800	1018604

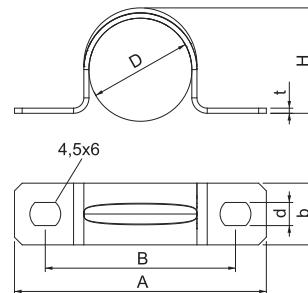
Two lobe fastening clips for cables and pipes.

* Sizes 7 to 12 not suitable for bolt-firing tool.



Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 40 G	40	37	1.5	75	61	14	5.5	7
605 43 G	43	40	1.5	78	64	14	5.5	7
605 47 G	47	44	1.5	82	68	14	5.5	7
605 50 G	50	46	1.5	88	74	16	5.5	7
605 55 G	55	51	1.5	94	78	16	5.5	7
605 60 G	60	56	1.5	99	83	16	5.5	7

Dimensions



Fastening clip 823, heavy-duty

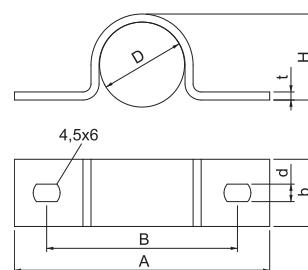
Type	Hole For Ø mm	Material size mm	thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
823 16 FT	16	6,5x10	2	50	2.260	1015095
823 18.3 FT	18.6	6,5x10	2	50	2.446	1015117
823 20 FT	20	6,5x10	2	50	2.662	1015133
823 22.5 FT	22.5	6,5x10	2	50	2.988	1015168
823 25 FT	25	6,5x10	3	25	6.770	1015494
823 28.3 FT	28.3	6,5x10	3	25	5.208	1015214
823 32 FT	32	6,5x10	3	100	7.469	1015496
823 37 FT	37	6,5x10	3	100	8.700	1015303
823 40 FT	40	6,5x10	3	100	8.460	1015498
823 47 FT	47	6,5x10	3	100	10.120	1015362
823 54 FT	54	6,5x10	3	100	10.760	1015427
823 59.3 FT	59.3	6,5x10	3	100	11.800	1015486
823 50 FT	50	6,5x10	3	100	9.050	1015500
823 63 FT	63	6,5x10	3	100	10.700	1015508

Two lobe fastening clips for cables and pipes.



Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm
823 16 FT	15.2	13	2	59	40	20
823 18.3 FT	18.6	16	2	62	43	20
823 20 FT	20.4	18	2	64	45	20
823 22.5 FT	22.5	20	2	67	48	20
823 25 FT	25	23.5	3	79	60	25
823 28.3 FT	28.3	25.5	3	75	56	20
823 32 FT	32	29	3	95	71	25
823 37 FT	37	34	3	93	69	25
823 40 FT	40	36	3	100	76	25
823 47 FT	47	43	3	103	79	25
823 54 FT	54	50	3	110	86	25
823 59.3 FT	59.3	55	3	116	92	25
823 50 FT	50	46	3	110	86	25
823 63 FT	63	59	3	120	96	25

Dimensions





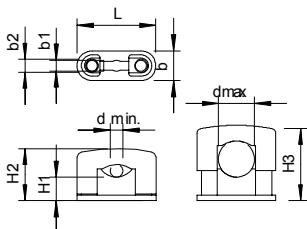
SOM clip, single



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3079 LGR	5-14	Light grey	50	0.431	2124149

With plastic screws, so corrosion-protected, with slot for fastening with wood screws or 5 mm knock-in anchors.

Dimensions



Type	Clamping range D	Dim. L	Dim. d min.	Dim. d max.	Dim. H1	Dim. H2	Dim. H3	Dim. b	Dim. b1	Bolt
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
3079 LGR	5-14	31	5	13	10.5	20	29	12	4.2	M5x14





Type	Dimen- sion mm	Max. bundle Ø mm	Minimum breaking load kN	Colour	Pack Piece	Weight kg/100 pc.	Item no.
CTC 7,5x180 LGR	16-32	32	0.36	Light grey	100	0.600	2332790
CTC 7,5x280 LGR	40-63	63	0.36	Light grey	100	0.900	2332794

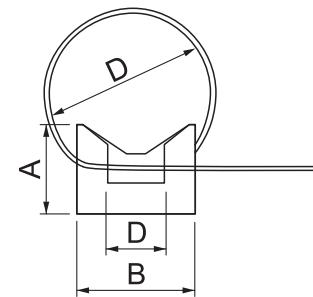
With the cable tie clip from OBO Bettermann, you can profit from faster and more reliable fastening of cables and pipes. The internally toothed cable tie ensures a secure hold and can be adapted to up to 4 pipe sizes. The CTC cable tie clip is made of halogen-free polyamide and can thus be used easily in interiors and protected external areas.

CTC cable tie clip



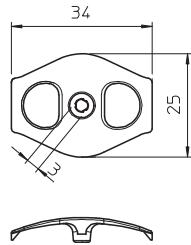
Type	Length mm	Width mm	Height mm
CTC 7,5x180 LGR	180	7.5	1.5
CTC 7,5x280 LGR	281	7.5	1.5

Dimensions



Nail clamp

Nail-Fix, without nail

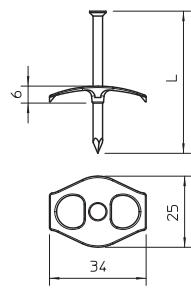


Type	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1996 O	3.0-3.5	Transparent	100	0.053	2222809

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.



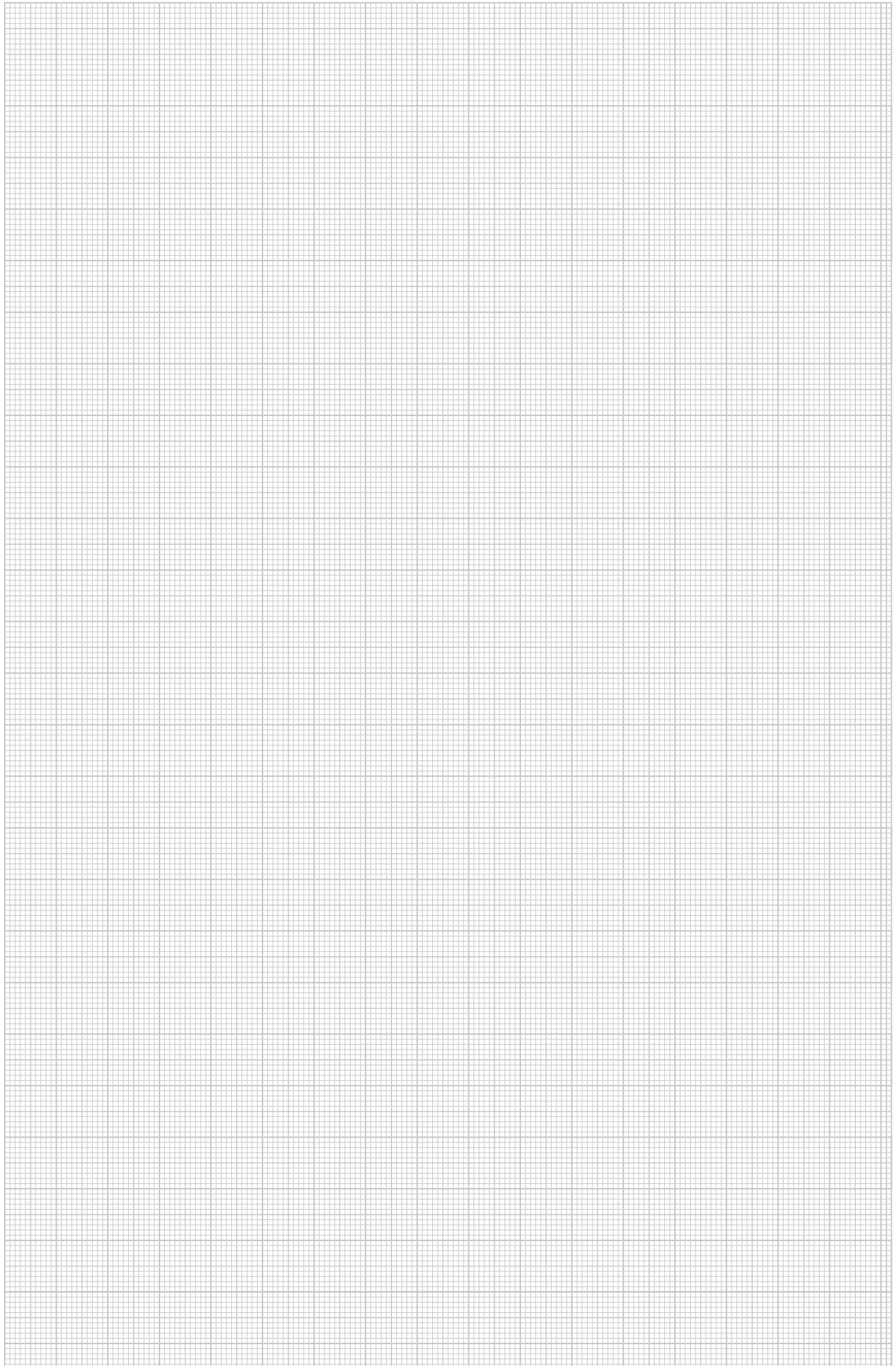
Nail-Fix, with nail



Type	For nail Ø x l mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
1996 40	3x40	Transparent	1200	100	0.267	2222833
1996 50	3.5x50	Transparent	1200	100	0.380	2222841
1996 60	3.5x60	Transparent	1200	100	0.443	2222868
1996 70	3.5x70	Transparent	1200	100	0.773	2222876

With pre-mounted, galvanised steel nail Ø 3 mm or 3.5 mm to fix cables in masonry slots and on masonry for one or two cables NYM 3 x 1.5/2.5 mm² or one or two cables NYM 5 x 1.5/2.5 mm².





Clamp clips, N base



Clamp clip, single, plastic pressure trough



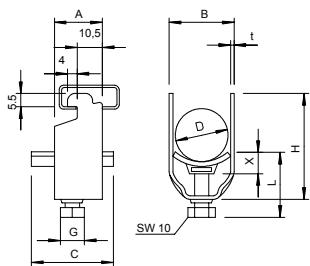
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056N 12 FT	8-12	100	2.500	1163124
2056N 16 FT	12-16	100	2.750	1163167
2056N 22 FT	16-22	100	3.100	1163221
2056N 28 FT	22-28	100	4.600	1163280
2056N 34 FT	28-34	100	5.900	1163345
2056N 40 FT	34-40	100	5.970	1163396
2056N 46 FT	40-46	100	6.640	1163469
2056N 52 FT	46-52	100	7.270	1163523
2056N 58 FT	52-58	50	10.560	1163582
2056N 64 FT	58-64	50	11.200	1163647
2056N 70 FT	64-70	50	12.330	1163701

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.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056N 12 FT	8-12	20	16	34	M6	1.5	5	34	34	3
2056N 16 FT	12-16	20	20	34	M6	1.5	5	38	34	3
2056N 22 FT	16-22	20	27	34	M6	1.5	5	44	34	3
2056N 28 FT	22-28	20	33	34	M6	2	5	51	34	3
2056N 34 FT	28-34	20	39	34	M8	2	5.5	59	37.5	5
2056N 40 FT	34-40	20	45	34	M8	2	5.5	66	37.5	5
2056N 46 FT	40-46	20	51	40	M8	2	5.5	72	37.5	5
2056N 52 FT	46-52	20	57	40	M8	2	6.5	79	37.5	5
2056N 58 FT	52-58	23	64	40	M8	2.5	6.5	86	45.5	5
2056N 64 FT	58-64	23	70	40	M8	2.5	6.5	92	45.5	5
2056N 70 FT	64-70	23	76	40	M8	2.5	6.5	99	45.5	5

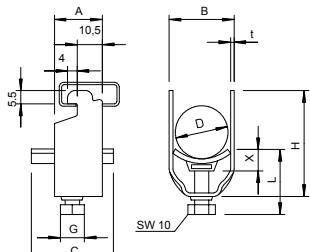
Clamp clip, single, metal pressure trough



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056N M 12 FT	8-12	100	2.450	1155407
2056N M 16 FT	12-16	100	2.800	1155415
2056N M 22 FT	16-22	100	3.150	1155423
2056N M 28 FT	22-28	100	4.900	1155431
2056N M 34 FT	28-34	100	6.400	1155458
2056N M 40 FT	34-40	100	7.000	1155466
2056N M 46 FT	40-46	100	8.500	1155474
2056N M 52 FT	46-52	100	9.150	1155482
2056N M 58 FT	52-58	100	12.100	1155490

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.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056N M 12 FT	8-12	20	16	30	M6	1.5	3.5	34	32.5	3
2056N M 16 FT	12-16	20	20	30	M6	1.5	3.5	38	32.5	3
2056N M 22 FT	16-22	20	27	30	M6	1.5	4.5	44	33.5	3
2056N M 28 FT	22-28	20	33	30	M6	2	4.5	51	33.5	3
2056N M 34 FT	28-34	20	39	35	M8	2	4.5	59	37	5
2056N M 40 FT	34-40	20	45	35	M8	2	5	66	37	5
2056N M 46 FT	40-46	20	51	35	M8	2	5	72	37	5
2056N M 52 FT	46-52	20	57	35	M8	2	5	79	37	5
2056N M 58 FT	52-58	23	64	35	M8	2.5	5	89	37	5



Clamp clip, single, plastic pressure trough

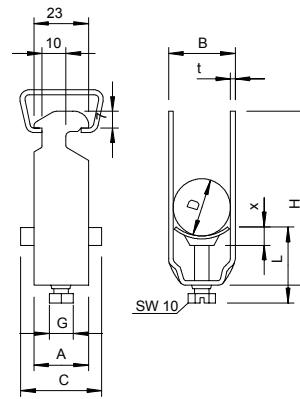
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 12 FT	8-12	100	3.540	1160125
2056 16 FT	12-16	100	3.820	1160168
2056 22 FT	16-22	100	4.508	1160222
2056 28 FT	22-28	100	6.240	1160281
2056 34 FT	28-34	100	7.680	1160346
2056 40 FT	34-40	100	8.260	1160400
2056 46 FT	40-46	100	10.900	1160451
2056 52 FT	46-52	100	11.900	1160524
2056 58 FT	52-58	100	14.300	1160583
2056 64 FT	58-64	100	15.600	1160648
2056 70 FT	64-70	50	18.200	1160702
2056 76 FT	70-76	25	20.600	1160761
2056 82 FT	76-82	25	22.000	1160826
2056 90 FT	82-90	25	26.200	1160907
2056 100 FT	90-100	25	21.296	1160990



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.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dimen- sion G	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056 12 FT	8-12	23	16	34	M6	1.5	5	40	34	3
2056 16 FT	12-16	23	20	34	M6	1.5	5	44	34	3
2056 22 FT	16-22	23	27	34	M6	1.5	5	50	34	3
2056 28 FT	22-28	23	33	34	M6	2	5	58	34	3
2056 34 FT	28-34	23	39	34	M8	2	5.5	66	34	5
2056 40 FT	34-40	23	45	34	M8	2	5.5	72	37.5	5
2056 46 FT	40-46	23	51	40	M8	2	5.5	79	44.5	5
2056 52 FT	46-52	23	57	40	M8	2	6.5	86	44.5	5
2056 58 FT	52-58	23	64	40	M8	2.5	6.5	93	45.5	5
2056 64 FT	58-64	23	70	40	M8	2.5	6.5	99	45.5	5
2056 70 FT	64-70	23	76	40	M8	2.5	6.5	106	45.5	5
2056 76 FT	70-76	25	82	40	M8	2.5	6.5	114	45.5	5
2056 82 FT	76-82	25	88	40	M8	2.5	6.5	121	45.5	5
2056 90 FT	82-90	25	97	40	M8	3	6.5	130	57.5	5
2056 100 FT	90-100	25	107	40	M8	3	6.5	140	57.5	5

Dimensions



Clamp clips, hammer head base

Clamp clip, single, metal pressure trough

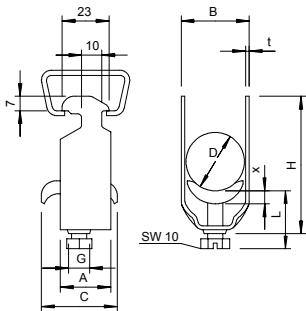
St FT
H 16-17 E30 E90



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 M 12 FT	8-12	100	3.200	1156004
2056 M 16 FT	12-16	100	3.500	1156012
2056 M 22 FT	16-22	100	4.400	1156020
2056 M 28 FT	22-28	100	6.100	1156039
2056 M 34 FT	28-34	100	7.700	1156047
2056 M 40 FT	34-40	100	8.600	1156055
2056 M 46 FT	40-46	100	9.600	1156063
2056 M 52 FT	46-52	100	10.400	1156071
2056 M 58 FT	52-58	100	13.100	1156098
2056 M 64 FT	58-64	100	14.500	1156101
2056 M 70 FT	64-70	50	16.100	1156128
2056 M 76 FT	70-76	25	18.300	1156136
2056 M 82 FT	76-82	25	19.100	1156144
2056 M 90 FT	82-90	25	23.300	1156152
2056 M 100 FT	90-100	25	24.500	1156160

Suitable for all C profile rails with slot width 16–17 mm.
Clip, bolt and pressure trough made of hot-dip galvanised steel.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. C mm	Dim. Dimen- sion G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056 M 12 FT	23	16	30	M6	1.5	3.5	40	32.5	3
2056 M 16 FT	23	20	30	M6	1.5	3.5	44	32.5	3
2056 M 22 FT	23	27	30	M6	1.5	4.5	50	46.5	3
2056 M 28 FT	23	33	30	M6	2	4.5	58	46.5	3
2056 M 34 FT	23	39	35	M8	2	5	66	44	5
2056 M 40 FT	23	45	35	M8	2	5	72	44	5
2056 M 46 FT	23	51	35	M8	2	5	79	44	5
2056 M 52 FT	23	57	35	M8	2	5	86	44	5
2056 M 58 FT	23	64	35	M8	2.5	5	93	44	5
2056 M 64 FT	23	70	35	M8	2.5	5	99	56	5
2056 M 70 FT	25	76	35	M8	2.5	5	106	56	5
2056 M 76 FT	25	82	40	M8	2.5	5	114	56	5
2056 M 82 FT	25	88	40	M8	2.5	5	121	56	5
2056 M 90 FT	25	97	40	M8	3	5	130	56	5
2056 M 100 FT	25	107	40	M8	3	5	140	56	5

Clamp clip, single, metal pressure trough

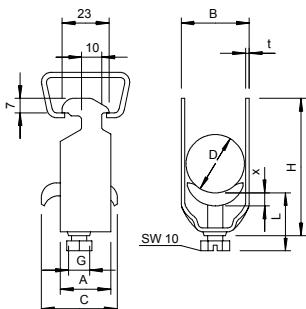
VA 2B
H 16-17



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 M 12 A2	8-12	50	3.200	1159712
2056 M 16 A2	12-16	50	3.500	1159716
2056 M 22 A2	16-22	50	4.400	1159722
2056 M 28 A2	22-28	25	6.100	1159728
2056 M 34 A2	28-34	25	7.700	1159734
2056 M 40 A2	34-40	25	8.600	1159740
2056 M 46 A2	40-46	25	9.600	1159746
2056 M 52 A2	46-52	25	10.400	1159752
2056 M 58 A2	52-58	15	13.100	1159758
2056 M 64 A2	58-64	15	14.500	1159764
2056 M 70 A2	64-70	15	16.100	1159770
2056 M 76 A2	70-76	10	18.300	1159776

Suitable for all C profile rails with slot width 16–17 mm.
Clip, bolt and pressure trough all made of rust-proof stainless steel.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. C mm	Dim. Dimen- sion G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056 M 12 A2	23	16	30	M6	1.5	3.5	44	32.5	3
2056 M 16 A2	23	20	30	M6	1.5	3.5	44	32.5	3
2056 M 22 A2	23	27	30	M6	1.5	3.5	60	32.5	3
2056 M 28 A2	23	33	30	M6	2	5	58	44	3
2056 M 34 A2	23	39	35	M8	2	5	66	44	5
2056 M 40 A2	23	45	35	M8	2	5	72	44	5
2056 M 46 A2	23	51	35	M8	2	5	79	44	5
2056 M 52 A2	23	57	35	M8	2	5	86	44	5
2056 M 58 A2	23	64	35	M8	2	5	93	44	5
2056 M 64 A2	23	70	35	M8	2.5	5	99	56	5
2056 M 70 A2	25	76	35	M8	2.5	5	106	56	5
2056 M 76 A2	25	82	40	M8	2.5	5	114	56	5



Clamp clip, single, plastic pressure trough

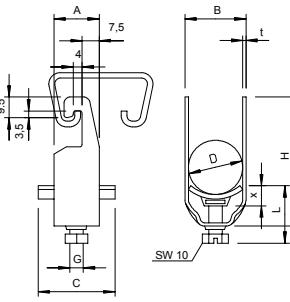
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U 12 FT	8-12	100	3.150	1175122
2056U 16 FT	12-16	100	3.600	1175165
2056U 22 FT	16-22	100	3.223	1175211
2056U 28 FT	22-28	100	4.344	1175289
2056U 34 FT	28-34	100	7.500	1175343
2056U 40 FT	34-40	100	8.100	1175408
2056U 46 FT	40-46	100	10.000	1175467
2056U 52 FT	46-52	100	8.300	1175521
2056U 58 FT	52-58	100	13.400	1175580
2056U 64 FT	58-64	100	14.300	1175645
2056U 70 FT	64-70	50	15.250	1175696
2056U 76 FT	70-76	25	20.600	1175769
2056U 82 FT	76-82	25	22.000	1175823
2056U 90 FT	82-90	25	26.200	1175904



Suitable for all C profile rails with slot width 18 mm and 22 mm.
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056U 12 FT	8-12	20	16	34	M6	1.5	5	42	34	3
2056U 16 FT	12-16	20	20	34	M6	1.5	5	46	34	3
2056U 22 FT	16-22	20	27	34	M6	1.5	5	53	34	3
2056U 28 FT	22-28	20	33	34	M6	2	5	59	34	3
2056U 34 FT	28-34	20	39	34	M8	2	5.5	67	37.5	5
2056U 40 FT	34-40	20	45	34	M8	2	5.5	73	37.5	5
2056U 46 FT	40-46	20	51	40	M8	2	5.5	79	37.5	5
2056U 52 FT	46-52	20	57	40	M8	2	6.5	85	38.5	5
2056U 58 FT	52-58	23	64	40	M8	2.5	6.5	91	38.5	5
2056U 64 FT	58-64	23	70	40	M8	2.5	6.5	97	38.5	5
2056U 70 FT	64-70	23	76	40	M8	2.5	6.5	103	38.5	5
2056U 76 FT	70-76	25	82	40	M8	2.5	6.5	110	45.5	5
2056U 82 FT	76-82	25	88	40	M8	2.5	6.5	116	45.5	5
2056U 90 FT	82-90	25	97	40	M8	3	6.5	125	45.5	5

Dimensions



Clamp clip, single, metal pressure trough

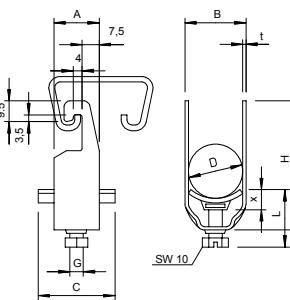
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U M 12 FT	8-12	100	3.300	1158007
2056U M 16 FT	12-16	100	3.520	1158015
2056U M 22 FT	16-22	100	3.960	1158023
2056U M 28 FT	22-28	100	5.890	1158031
2056U M 34 FT	28-34	100	7.650	1158058
2056U M 40 FT	34-40	100	8.360	1158066
2056U M 46 FT	40-46	100	10.890	1158074
2056U M 52 FT	46-52	100	11.660	1158082
2056U M 58 FT	52-58	100	14.740	1158090
2056U M 64 FT	58-64	100	15.730	1158104
2056U M 70 FT	64-70	50	18.200	1158112
2056U M 76 FT	70-76	25	20.600	1158120



Suitable for all C profile rails with slot width 18 mm and 22 mm.

Type	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056U M 12 FT	20	16	34	M6	1.5	5	42	34	3
2056U M 16 FT	20	20	34	M6	1.5	5	46	34	3
2056U M 22 FT	20	27	34	M6	1.5	5	53	34	3
2056U M 28 FT	20	33	34	M6	2	5	59	34	3
2056U M 34 FT	20	39	34	M8	2	5.5	67	37.5	5
2056U M 40 FT	20	45	34	M8	2	5.5	73	37.5	5
2056U M 46 FT	20	51	40	M8	2	5.5	79	37.5	5
2056U M 52 FT	20	57	40	M8	2	6.5	85	38.5	5
2056U M 58 FT	23	64	40	M8	2.5	6.5	91	38.5	5
2056U M 64 FT	23	70	40	M8	2.5	6.5	97	38.5	5
2056U M 70 FT	23	76	40	M8	2.5	6.5	103	38.5	5
2056U M 76 FT	25	82	40	M8	2.5	6.5	110	45.5	5

Dimensions



Clamp clips, fastening to flat iron



Clamp clip, single, plastic pressure trough



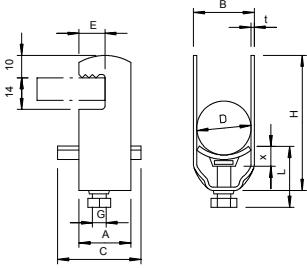
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056F 12 FT	8-12	100	3.700	1169122
2056F 16 FT	12-16	100	3.900	1169165
2056F 22 FT	16-22	100	4.500	1169211
2056F 28 FT	22-28	100	6.000	1169289
2056F 34 FT	28-34	100	8.740	1169343
2056F 40 FT	34-40	100	8.500	1169408
2056F 46 FT	40-46	100	10.600	1169467
2056F 52 FT	46-52	100	9.200	1169521
2056F 58 FT	52-58	50	13.050	1169580
2056F 64 FT	58-64	50	14.800	1169645

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.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056F 12 FT	8-12	23	16	34	M6	1.5	5	43	34	3
2056F 16 FT	12-16	23	20	34	M6	1.5	5	47	34	3
2056F 22 FT	16-22	23	27	34	M6	1.5	5	54	34	3
2056F 28 FT	22-28	23	33	34	M6	2	5	60	34	3
2056F 34 FT	28-34	23	39	34	M8	2	5.5	68	37.5	5
2056F 40 FT	34-40	23	45	34	M8	2	5.5	74	37.5	5
2056F 46 FT	40-46	25	51	40	M8	2	5.5	80	37.5	5
2056F 52 FT	46-52	25	57	40	M8	2	6.5	86	38.5	5
2056F 58 FT	52-58	25	64	40	M8	2.5	6.5	92	38.5	5
2056F 64 FT	58-64	25	70	40	M8	2.5	6.5	98	38.5	5

Clamp clips, special application



Clamp clip, single, metal pressure trough, round profiles/pipes

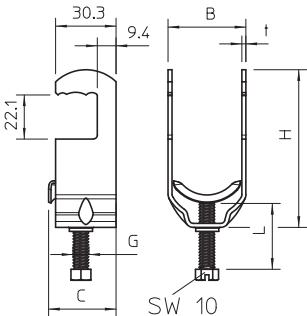


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056RS M 16 FT	12-16	100	4.000	1158305
2056RS M 22 FT	16-22	100	5.200	1158309
2056RS M 28 FT	22-28	100	7.500	1158313
2056RS M 34 FT	28-34	100	9.000	1158317
2056RS M 40 FT	34-40	100	10.000	1158321
2056RS M 46 FT	40-46	100	10.900	1158325
2056RS M 52 FT	46-52	100	12.200	1158329
2056RS M 58 FT	52-58	100	15.000	1158333
2056RS M 64 FT	58-64	100	16.500	1158337

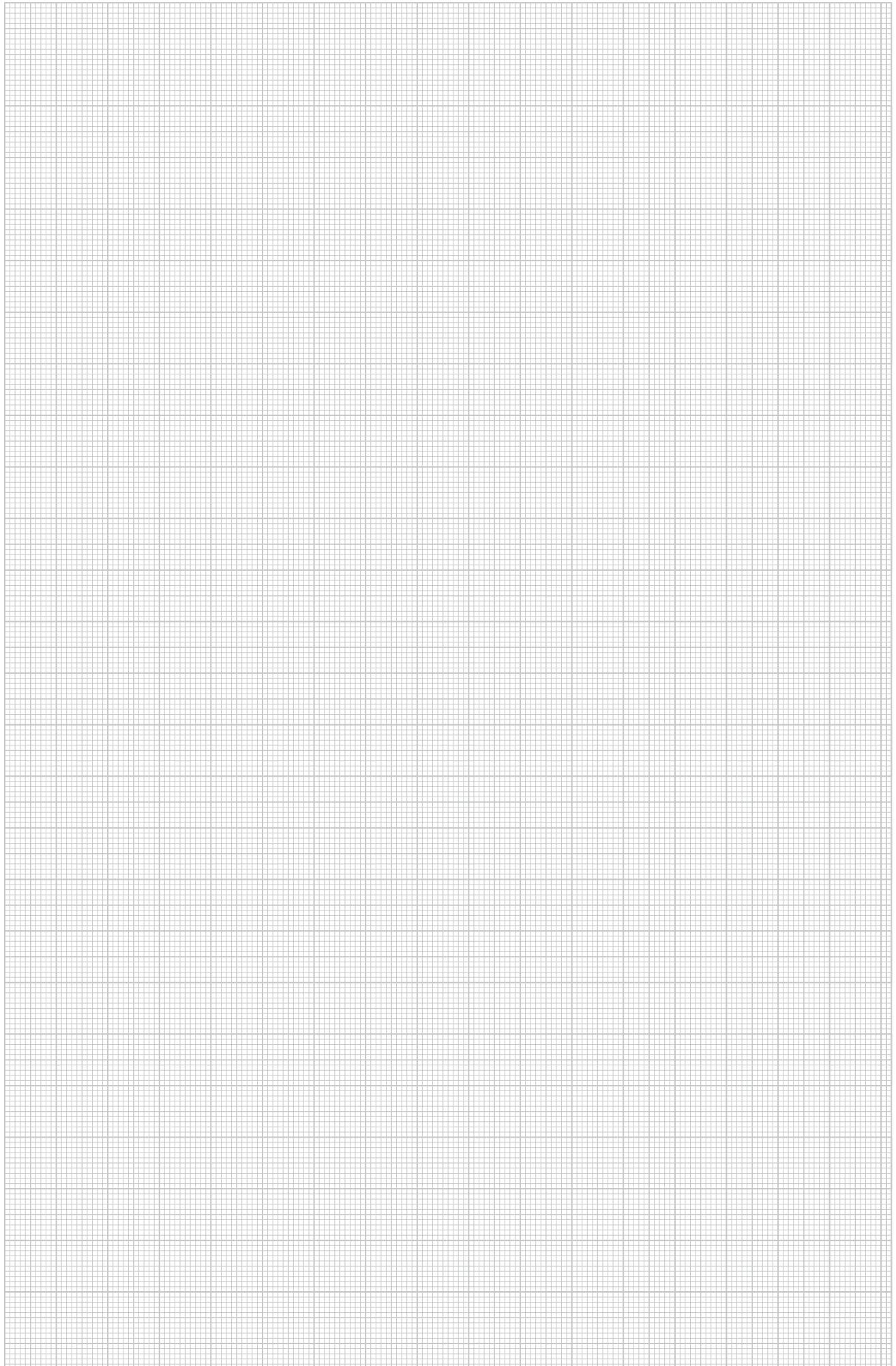
Suitable for all round profile irons or pipes of diameters to 22 mm; clip, pressure trough and bolt made of steel, hot-dip galvanised;

the metal troughs have strongly rounded edges on all sides, so that no damage to the cables need be feared.

Dimensions



Type	Clamping range D mm	Dim. B mm	Dim. C mm	Dim. G mm	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056RS M 16 FT	12-16	20	28	M6	1.5	57	26	3
2056RS M 22 FT	16-22	27	28	M6	1.5	69	30	3
2056RS M 28 FT	22-28	33	28	M6	2	73	38	3
2056RS M 34 FT	28-34	39	33	M8	2	79	33	5
2056RS M 40 FT	34-40	45	33	M8	2	86	33	5
2056RS M 46 FT	40-46	51	33	M8	2	92	33	5
2056RS M 52 FT	46-52	57	33	M8	2	97	33	5
2056RS M 58 FT	52-58	64	33	M8	2.5	103	33	5
2056RS M 64 FT	58-64	70	33	M8	2.5	112	33	5





Universal counter-trough

One counter-trough for all clamp clips, fits every rail and can be combined into a double trough

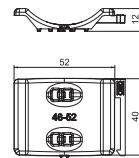
- More installation space during mounting through insertion at a later date
- Retroinstallation is possible without dismantling the clamp clip
- Suitable for all clamp clips and OBO profile rails
- One type for all base shapes and clamping dimensions
- 15 variants for all applications
- High stability and sturdiness
- Patented contour on the rear side allows the combination of two counter-troughs to a double trough



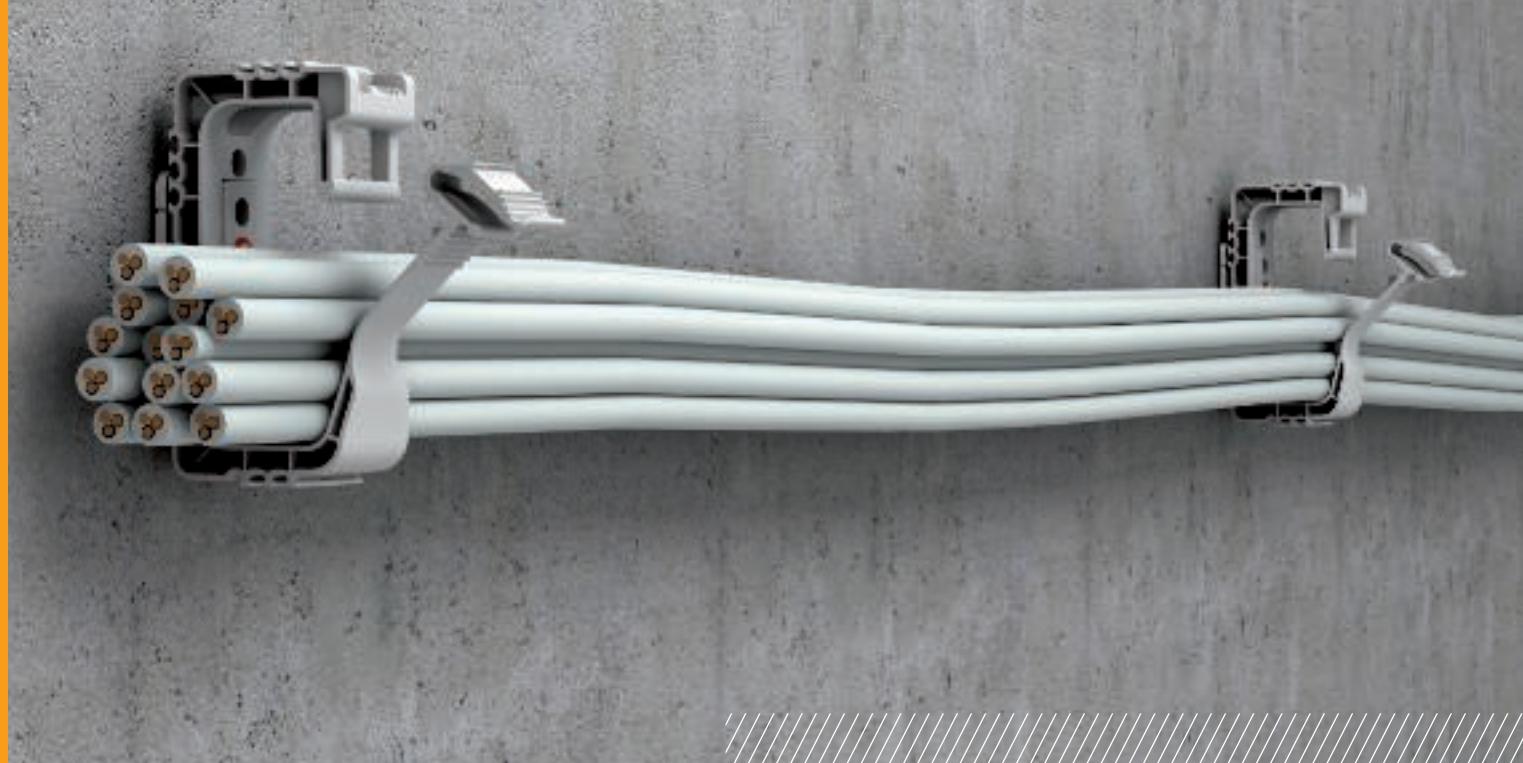


Universal counter-trough, plastic

Type	Clamping range D mm	Dim. L mm	Dim. B mm	Dim. H mm	Shipping box Colour	Pack Piece	Piece	Item no.
2058UW 12 LGR	8-12	37	18.5	5.8	Light grey	1500		100 1198012
2058UW 16 LGR	12-16	37	21.5	5.8	Light grey	1600		100 1198016
2058UW 22 LGR	16-22	37	27.5	6.8	Light grey	1500		100 1198022
2058UW 28 LGR	22-28	37	33.5	8.3	Light grey	1200		100 1198028
2058UW 34 LGR	28-34	37	45.5	9.8	Light grey	1200		100 1198034
2058UW 40 LGR	34-40	37	45.5	10.8	Light grey	600		50 1198040
2058UW 46 LGR	40-46	40	51.5	11.8	Light grey	600		50 1198046
2058UW 52 LGR	46-52	40	57.5	11.8	Light grey	600		50 1198052
2058UW 58 LGR	52-58	40	63.5	11.8	Light grey	600		50 1198058
2058UW 64 LGR	58-64	40	69.5	11.8	Light grey	600		50 1198064
2058UW 70 LGR	64-70	40	75.5	12.3	Light grey	300		25 1198070
2058UW 76 LGR	70-76	40	81.5	12.3	Light grey	300		25 1198076
2058UW 82 LGR	76-82	40	87.5	12.3	Light grey	300		25 1198082
2058UW 90 LGR	82-90	40	96	12.8	Light grey	300		25 1198090
2058UW 100 LGR	90-100	40	106	12.8	Light grey	300		25 1198100



Regardless of the type of rail, the counter-trough can be used by applying it onto one side of the clamp clip. Due to an intelligent contour on the backside, the counter-trough can be combined to a double trough. Retrofitting possible without the need to dismantle.

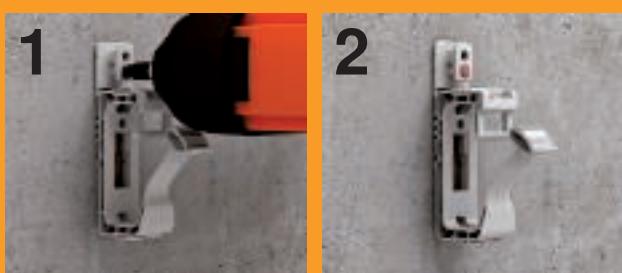


Grip cable tidy



Cable tidy for general use, suitable for wall and ceiling mounting. The moulded fastening element can be fastened using knock-in anchors or a gas pressure nail gun.

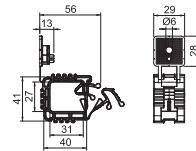
- Wall and ceiling mounting
- Can be joined together "back to back"
- For multiple cables
- Rapid installation using the fastening element
- Ideal for retroinstallation
- Flame-resistant version, stone grey, to DIN EN 0471 / DIN IEC 695 Part 2-1, test temperature 960 °C





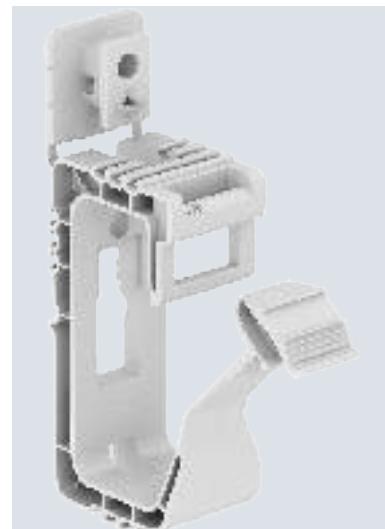
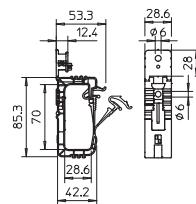
Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 10	10	Light grey	50	1.410	2205380
2031 10 SP	10	Light grey	100	1.410	2205384

Cable tidy with fastening holes of Ø 6 mm for mounting installation cables, suitable for wall and ceiling mounting. The moulded fastening element can be fastened using knock-in anchors or a gas pressure nail gun. The recommended fastening spacing when assigned fully is 50 to 60 cm.



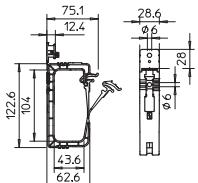
Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 20	20	Light grey	50	1.920	2205404
2031 20 SP	20	Light grey	100	1.920	2205408

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.



Grouped supports, Grip plastic

Grip 40



Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 40	40	Light grey	25	3.610	2205416
2031 40 SP	40	Light grey	50	3.280	2205420

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.





Installation and fastening clips

Grip cable tidy, metal

E30 E90

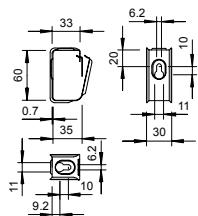


The movable closing strap means that the Grip cable tidy can be opened and closed again and again with just the application of light pressure. This means that you can remove a cable easily and at any time from fixed wall and ceiling installations, or also install a new cable at a later date.

- Ingenious design means both wall and ceiling mounting are possible
- Easy cable insertion
- Extremely sturdy click-in connector means retroinstalling cables is no problem
- UL-tested quality
- Also available in stainless steel qualities A2 and A4
- Tested for the maintenance of electrical functionality
- Halogen and fire load-free

Grouped supports, Grip metal

Grip, metal 15

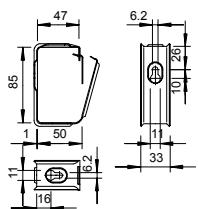


Type	No. of conductors NYM 3 x 1.5	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 15 FS	15	50	50	3.700	2207028
2031 M 15 A2	15	50	50	3.000	2207080

Metal cable tidy for high mechanical stability, even in case of fire. Suitable for safe mounting above fire protection ceilings. Also approved as a cable-specific variant for the maintenance of electrical function to DIN 4102 part 12. For wall and ceiling mounting. Lock can be opened without tools. Detailed information on the approved routing variants can be found in the appropriate testing documentation.



Grip, metal 30



Type	No. of conductors NYM 3 x 1.5	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 30 FS	30	25	25	6.200	2207036
2031 M 30 A2	30	25	25	6.500	2207088

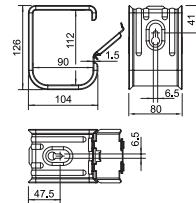
Metal cable tidy for high mechanical stability, even in case of fire. Suitable for safe mounting above fire protection ceilings. Also approved as a cable-specific variant for the maintenance of electrical function to DIN 4102 part 12. For wall and ceiling mounting. Lock can be opened without tools. Detailed information on the approved routing variants can be found in the appropriate testing documentation.





Type	No. of conductors NYM 3 x 1.5	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 70 FS	70	10	10	34.500	2207060
2031 M 70 A2	70	10	10	37.000	2207112

Metal cable tidy for high mechanical stability, even in case of fire. Suitable for safe mounting above fire protection ceilings. Also approved as a cable-specific variant for the maintenance of electrical function to DIN 4102 part 12. For wall and ceiling mounting. Lock can be opened without tools. Detailed information on the approved routing variants can be found in the appropriate testing documentation.



Grip, metal 70



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!



For 8 cables



For 16 cables

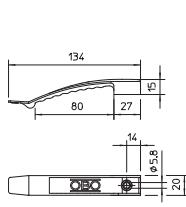
- Striking surface on top
- Specially adapted corrugation
- Spacer for larger cable diameters
- Connectable
- With knock-in anchor



Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2032	8	Light grey	50	1.371	2205017
2032 SP	8	Light grey	100	1.371	2204975

Standard version for general use, e.g. on intermediate ceilings and partition walls.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.

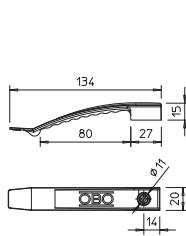
Pressure clip for 8 cables



Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2032 AS	8	Light grey	50	1.300	2205052

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.

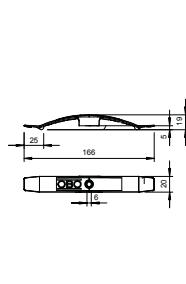
Pressure clip for 8 cables, connectable



Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2034	10	Light grey	50	1.169	2205041
2034 SP	10	Light grey	100	1.169	2204991

Standard version for general use, e.g. on intermediate ceilings and partition walls.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.

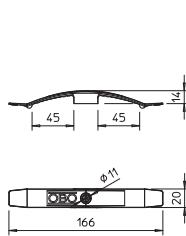
Pressure clip for 10 cables



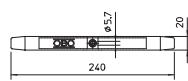
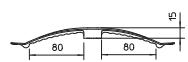
Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2034 AS	10	Light grey	50	1.130	2205054

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, connectable



Pressure clip for 16 cables

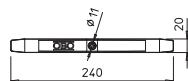


Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2033	16	Light grey	25	2.077	2205033
2033 SP	16	Light grey	100	2.077	2204983

Standard version for general use, e.g. on intermediate ceilings and partition walls.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.



Pressure clip for 16 cables, connectable

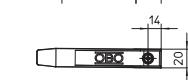
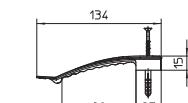
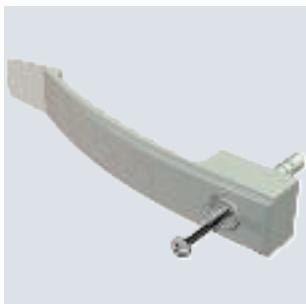


Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2033 AS	16	Light grey	25	2.100	2205053

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 with knock-in anchor, for 8 cables



Type	No. of conductors	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2032 SD	8	Light grey	50	1.791	2204800
2032 SD SP	8	Light grey	100	1.791	2204851

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

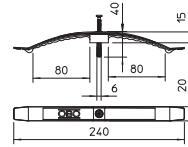
Type	No. of conductors	NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2033 SD	16		Light grey	25	2.515	2204819
2033 SD SP	16		Light grey	100	2.515	2204878

With pre-mounted knock-in anchor, 6 mm Ø.

Required drill hole depth 50 mm.

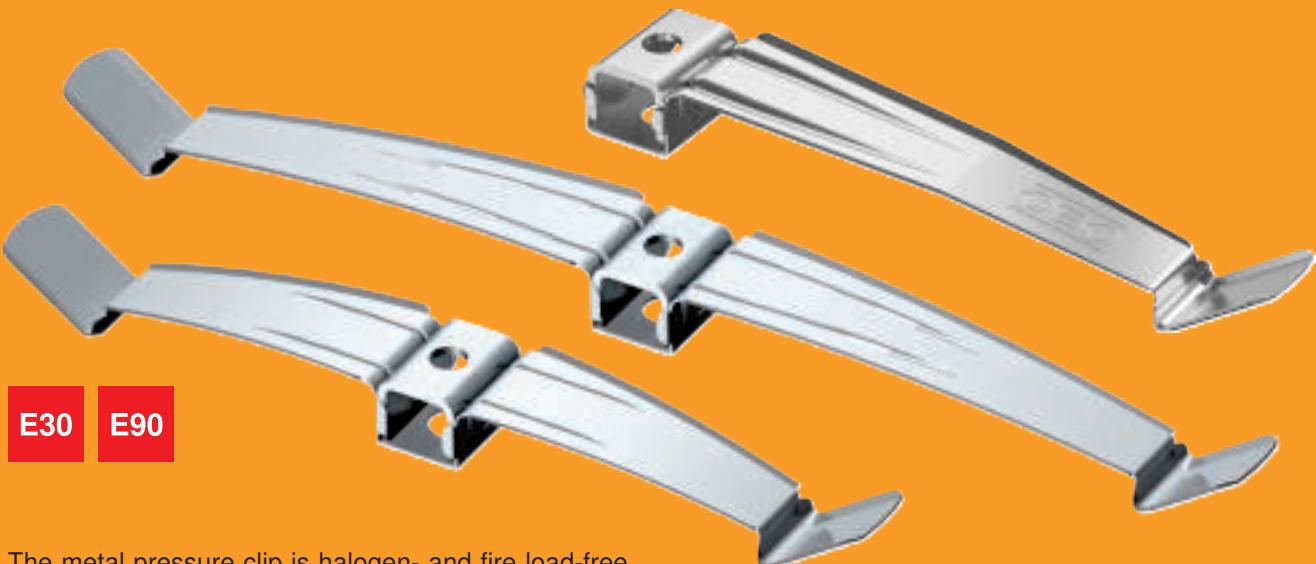
Clamping height 9 mm – with spacer 13 mm.

Fastening hole 6 mm Ø.





Metal pressure clip

**E30****E90**

The metal pressure clip is halogen- and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for maintenance of electrical function to DIN 4102 Part 12. In pressure clips with larger cross-sections, the spacer 2033 D 15 x 3 G (must be ordered separately) increases the clamping height from 10 to 13 mm. The pressure clips are suitable for fireproof mounting above suspended fire protection ceilings in accordance with DIN 4102.

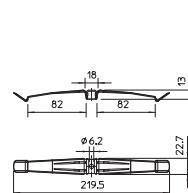
- Easy ceiling installation, tested for the maintenance of electrical functionality
- Simple retroinstallation of cables
- 3 sizes to fit either 8, 10 or 16 cables (NYM 3x1.5 mm²)
- Halogen and fire load-free



Type	No. of conductors	Pack Piece	Weight kg/100 pc.	Item no.
2033 M A2	16	25	2.310	2204000

The metal pressure clip is halogen and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for the maintenance of electrical functionality to DIN 4102 Part 12. The spacer 2033 D 15 x 3 G (must be ordered separately) increases the clamping height of pressure clips from 10 to 13 mm. The pressure clips are suitable for fireproof mounting above suspended fire protection ceilings in accordance with DIN 4102.

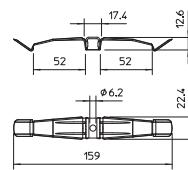
Pressure clip for 16 cables



Type	No. of conductors	Pack Piece	Weight kg/100 pc.	Item no.
2034 M A2	10	50	1.860	2204010

The metal pressure clip is halogen and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for the maintenance of electrical functionality to DIN 4102 Part 12. The spacer 2033 D 15 x 3 G (must be ordered separately) increases the clamping height of pressure clips from 10 to 13 mm. The pressure clips are suitable for fireproof mounting above suspended fire protection ceilings in accordance with DIN 4102.

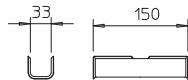
Pressure clip for 10 cables



Long troughs

Long trough for Grip cable tidy metal 15

St FS



Type
2031 LW15

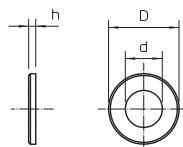
Pack Weight
Piece kg/100 pc. Item no.
25 8.200 2207184

Long trough for cable tidy type 2031/M15, for the maintenance of electrical function as cable-specific mounting variant.

Spacers

Spacer

St G



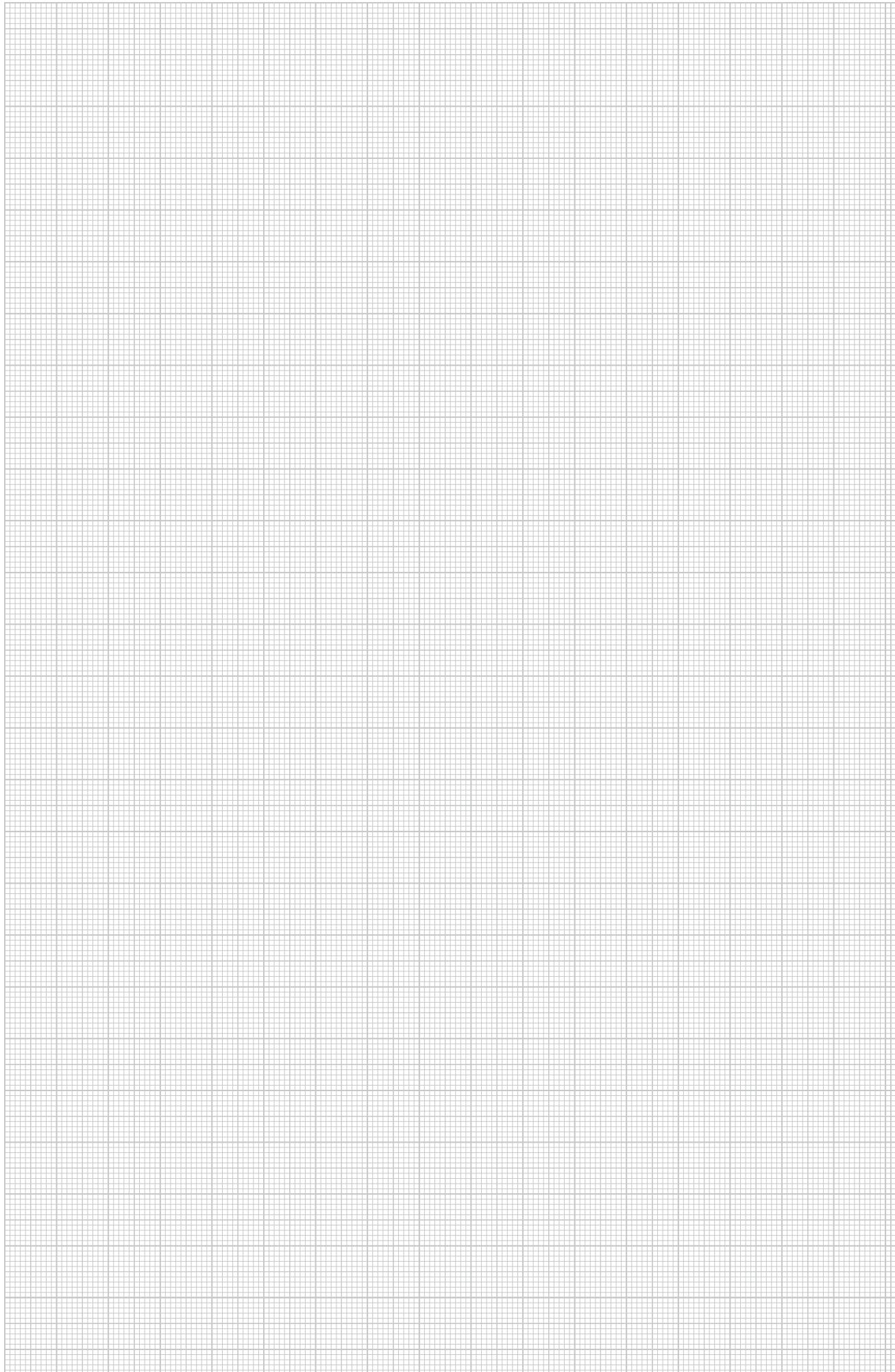
Dim. Dim.
D d Dim.
mm mm mm

Type
2033 D 15x3 G

Pack Weight
Piece kg/100 pc. Item no.
50 0.340 2205097

To increase the clamping height of pressure clips from 10 to 13 mm for large cable cross-sections.





Anchors and fastening systems

Anchors and fastening systems

	Metal anchor	308
	Injection anchors	316
	Accessories, anchors	318
	Bolts	322
	Washers and nuts	330
	Hook	336
	Cable tie	338
	Fastening strips	340

Multipurpose anchors

Universal anchor

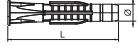


Type	Item no.
910 FX 5x25	2347580
910 FX 6x30	2347582
910 FX 8x40	2347584
910 FX10x50	2347586
910 FX 12x60	2347588



Also suitable as a cavity anchor, with collars to prevent slipping. 3 tabs take up the torque.
Required minimum bolt length = anchor length + component thickness + 1 x bolt Ø.
Withdrawal force applies to wood screws of the largest bolt diameter in concrete of class B25.
Our safety value recommendation: 5x

All-purpose anchor



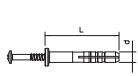
Type	Dowel Ø mm	Dim. L mm	Wood screws Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
910 AZK 5x31	5	31	34	100	0.036	2348120
910 AZK 6x38	6	38	45	100	0.063	2348122
910 AZK 8x51	8	51	56	100	0.106	2348124
910 AZK 10x61	10	61	78	50	0.260	2348126
910 AZK 12x71	12	71	810	25	0.370	2348128



Also suitable as a cavity anchor, with collar to prevent slipping. 3 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 bolt diameter in concrete of class B25.
Our safety value recommendation: 5x

Knock-in anchor

Knock-in anchor



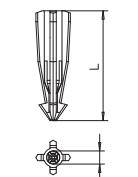
Type	Dowel Ø mm	Length mm	Pull-out force N min/concrete	Pack Piece	Weight kg/100 pc.	Item no.
910 SD 5X35	5	35	220	100	0.360	2351021
910 SD 6X35	6	35	260	100	0.310	2351056
910 SD 6X40	6	40	260	100	0.555	2351064
910 SD 8X55	8	55	350	50	1.070	2351099



Knock-in anchor: steel, electrogalvanised and transparently passivated.

Gas concrete anchor

Gas concrete anchor



Type	Dim. D mm	Dim. L mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
910 GD 6x35	6	35	Light grey	100	0.094	2347229
910 GD 8x50	8	50	Light grey	50	0.263	2347261

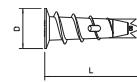


The anchor can be knocked directly into the porous concrete (gas concrete resistance class G2). With a resistance class of G4 or greater, a 5 or 6 mm hole should be pre-drilled.
Screw length: Component thickness + 40 mm (6 mm) / 55 mm (8 mm).

Zn

Plasterboard anchor

Type	Perm. load range,			Pack Piece	Weight kg/100 pc.	Item no.
	Dim. D mm	Dim. L mm	tension zone kN			
910 GKDM 12x30	12	30	0.04	100	0.400	3483214



To fasten components to plasterboard or fibre composite plates.
Minimum plate thickness: 12 mm.
For Ø 4.5 Golden Sprint or Sprint screws.

Zn

Plasterboard anchor

Type	Perm. load range,			Pack Piece	Weight kg/100 pc.	Item no.
	Dim. D mm	Dim. L mm	tension zone kN			
910 GKSM 6x25	7.5	26.4	0.04	100	0.160	3483239



To fasten components to plasterboard or fibre composite plates.
Min. plate thickness: 5 mm.

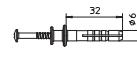
Double-flange anchor

PA



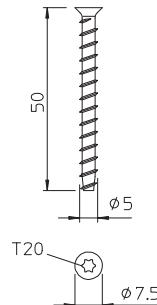
Double-flange anchor

Type	Dowel Ø mm	Drill hole Length mm	Shipping depth mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
	mm	mm	mm	Piece			
910 DF 6x35	6	35	40	1200	100	0.425	2347407



Knock-in anchor: steel, tempered, electrogalvanised and transparently passivated.

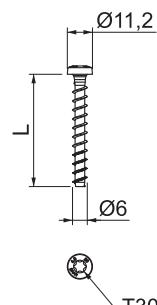
MMS-plus KS countersunk head tie, for cable clip



Type	Dimen- sion mm	Anchor length mm	Drill hole Ø mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ KS 5x50	5x50	50	4	7.5	Torx	200	0.460	3498204

Bolt tie for direct mounting without additional anchors in concrete and masonry. With small countersunk head to fasten cable clips through the threaded foot.
Load-bearing capacities under fire loads proven up to fire resistance class R120.

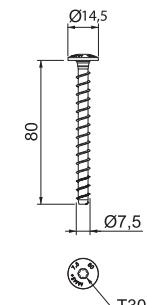
MMS-plus P round head tie, with panhead



Type	Dimen- sion mm	Screw system	Anchor length mm	Drill hole Ø mm	Head Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ P 6x35	6x35	Torx	35	5	11.2	100	0.900	3498103
MMS+ P 6x40	6x40	Torx	40	5	11.2	100	1.000	3498105
MMS+ P 6x50	6x50	Torx	50	5	11.2	100	1.000	3498108

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings. Torx drive T30.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus P round head tie, with panhead



Type	Dimen- sion mm	Anchor length mm	Drill hole Ø mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ P 7,5x80	7,5x80	80	6	14,5	Torx	50	1.600	3498272

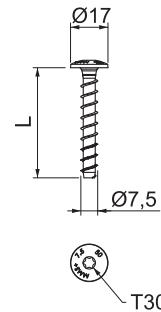
Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings. Torx drive T30.
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



MMS-plus MS mounting rail tie, with flat pan-head

Type	Dimen- sion mm	Anchor length mm	Drill hole Ø mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ MS 7.5x50	7.5x50	50	6	17	Torx	100	1.500	3498261
MMS+ MS 7.5x60	7.5x60	60	6	17	Torx	50	1.800	3498262

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With large round head to fasten mounting and profile rails. Torx drive T30. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

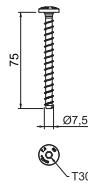


VA

MMS-plus P round head tie, with panhead, made of A4 stainless steel

Type	Dimen- sion mm	Drill hole Ø mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ P 7.5x75 A4	7.5x75	6	14.5	Torx	50	1.900	3498274

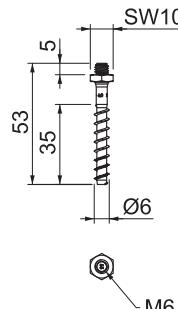
Stainless steel screw-in anchor for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings in wet rooms and outdoor areas. Torx drive T30. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



MMS-plus ST push-in tie, with connection thread

Type	Dimen- sion mm	Drill hole Ø mm	Thread SW mm	Pack Piece	Weight kg/100 pc.	Item no.	
MMS+ ST 6x55	6x55	5	M6	10	100	1.030	3498264

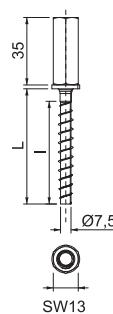
Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. M6 connection thread for fastening clips with threaded foot. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



MMS-plus I internal thread tie, with combination thread sleeve

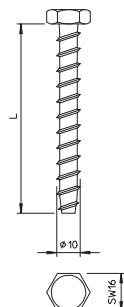
Type	Dimen- sion mm	Dim. L mm	Dim. Ø mm	SW Thread mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ I 7.5x40	7.5x40	40	6	M8/M10 13	40	3.810	3498266
MMS+ I 7.5x60	7.5x60	60	6	M8/M10 13	40	4.230	3498268

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With M8/M10 combination thread sleeve for fastening threaded rods. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



Fire protection anchor

MMS-plus SS hexagonal tie, with pressed washer

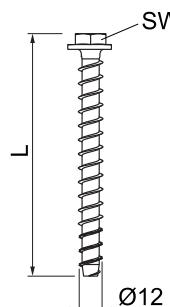


Type	Dimen- sion mm	Dim. L mm	Drill Ø mm	hole SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ SS 10x80	10x80	80	8	13	25	4.000	3498124
MMS+ SS 10x100	10x100	100	8	13	25	4.800	3498159

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets.

Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus hexagonal tie, with pressed washer

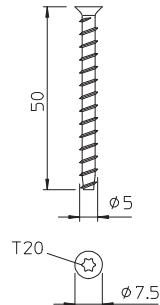


Type	Dimen- sion mm	Dim. L mm	Drill Ø mm	hole SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ SS 12x100	12x100	100	10	15	25	7.800	3498170
MMS+ SS 12x120	12x120	120	10	15	25	8.900	3498172
MMS+ SS12x105 A4	12x105	105	10	15	25	8.200	3498174
MMS+ SS12x120 A4	12x120	120	10	15	25	9.400	3498176

Stainless steel screw-in anchor for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in wet rooms and in outdoor areas.

Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

MMS-plus KS countersunk head tie, for cable clip



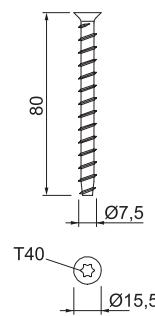
Type	Dimen- sion mm	Anchor length mm	Drill Ø mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ KS 5x50	5x50	50	4	7.5	Torx	200	0.460	3498204

Bolt tie for direct mounting without additional anchors in concrete and masonry. With small countersunk head to fasten cable clips through the threaded foot. Load-bearing capacities under fire loads proven up to fire resistance class R120.



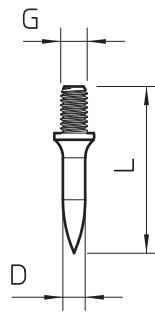
Type	Dimen-	Drill	Head	Screw	Pack	Weight	Item no.
	sion	hole	Ø mm	Ø mm	Piece	kg/100 pc.	
MMS+ F 7.5x80	7.5x80	6	15.5	Torx	50	2.000	3498160

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With countersunk head for universal fastenings. Torx drive T40. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



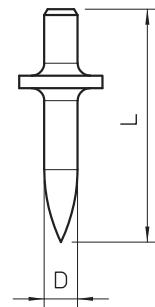
Type	Shank length mm	Dim. L mm	Dim. D Ø mm	Dim. G mm	Pack Piece	Weight kg/100 pc.	Item no.
903 15 G	15	23	4	M6	100	0.330	3100154
903 18 G	18	26	4	M6	100	0.360	3100189
903 25 G	25	33	4	M6	100	0.404	3100251
903 30 G	30	38	4	M6	100	0.470	3100308
903 40 G	40	48	4	M6	100	0.571	3100405

Hardened steel, electrogalvanised with M6 x 8 mm thread.



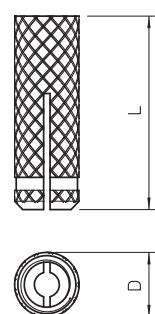
Type	Shank length mm	Dim. L mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
903 RB 15	15	21	4	200	0.295	3105016
903 RB 18	18	24	4	200	0.348	3105024
903 RB 22	22	30	4	200	0.325	3105032

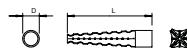
Hardened steel, shiny without thread.



Type	Thread	Drill hole depth mm	Drill hole length mm	Pull-hole out Ø mm	Value N	Pack Piece	Weight kg/100 pc.	Item no.
865 M8x30	M8	41	30	11	7000	100	0.867	3483088
865 M10x34	M10	53	34	12	9000	100	1.315	3483096

Areas of application: full brick, concrete, wood. Ideally suited for areas exposed to high temperatures.

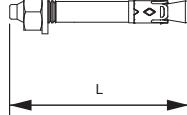


Metal spreading anchor

Type	Drill hole			Pack Piece	Weight kg/100 pc.	Item no.	
	D mm	L mm	Ø mm				
MD 5 GTP	5	30	5-7		200	0.190	3484602
MD 6 GTP	6	32	7-9		100	0.250	3484629

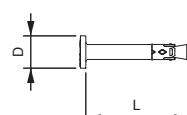
Areas of application: gas concrete, lightweight concrete, Poroton, pumice, plaster, hollow brick and full brick. Can be knocked into porous concrete (gas concrete) of low resistance without drilling. Superbly suited for areas subjected to high temperatures.

Anchor, heavy-duty fastening

Nail anchor N with thread

Type	Thread	Drill hole			Clamping range	Dim. L	Pack Piece	Weight kg/100 pc.	Item no.
		Ø mm	depth mm	mm					
N 6-5-10/49	M6	6	40	5-10	49		100	1.160	3498396

The nail anchor N can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail tie only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail tie spreads itself and bolts itself in the drill hole. European Technical Approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

Nail anchor N-K with nail head

Type	Drill hole			Clamping range	Dim. L	Dim. D	Pack Piece	Weight kg/100 pc.	Item no.
	Ø mm	depth mm	mm						
N-K 6-5-10/44	6	40	5-10	44	13		100	1.135	3498390

The nail anchor N-K can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European Technical Approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

St G

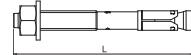
Type	Drill Ø mm	Drill hole depth mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ10-100-120/180	10	75	M10 180	25	10.320	3498342
BZ 10-150/230	10	75	M10 230	25	13.600	3498344
BZ 12-15-35/110	12	90	M12 110	25	10.320	3498350

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

European Technical Approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.

Proof of suitability in the case of seismic impacts, categories C1 and C2.

Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.



A4 2B

Type	Drill Ø mm	Drill hole depth mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ12-15-35/110AA	12	90	M12 110	25	10.440	3498352

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.

Proof of suitability in the case of seismic impacts, categories C1 and C2.

Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.



St G

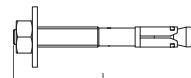
Type	Drill Ø mm	Drill hole depth mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ-U 8-10-21/75	8	60	M8 75	50	3.460	3498320
BZ-U 8-30-41/95	8	60	M8 95	50	4.010	3498326
BZ-U 10-10-30/90	10	75	M10 90	50	6.720	3498334
BZU10-30-50/110	10	75	M10 110	25	7.900	3498340

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

European Technical Approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.

Proof of suitability in the case of seismic impacts, categories C1 and C2.

Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.



A4 2B

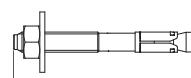
Type	Drill Ø mm	Drill hole depth mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ-U8-10-21/75A4	8	60	M8 75	50	3.460	3498322
BZ-U8-30-41/95A4	8	60	M8 95	50	4.090	3498328
BZU10-10-30/90A4	10	75	M10 90	50	6.740	3498336

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads, indoors and outdoors, both in cracked and non-cracked concrete. It combines high approved loads with small edge distances and axial spacings.

European Technical Approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.

Proof of suitability in the case of seismic impacts, categories C1 and C2.

Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.



Impact tie, version with collar

Type	Thread	Drill hole Ø	Drill hole depth	Dim. L	Perm. load range, tension zone	Pack Piece	Weight kg/100 pc.	Item no.
ES M 10x30	M10	12	30	30	2	50	1.800	3492032
ES M 6x25	M6	8	25	25	1.7	100	0.600	3492018
ES M 8x25	M8	10	25	25	1.9	100	1.000	3492020
ES M 8x30	M8	10	30	30	1.7	100	1.100	3492023
ES M 10x25	M10	12	25	25	2.1	50	1.400	3492022
ES M 10x40	M10	12	40	40	2	50	2.100	3492024
ES M 12x25	M12	15	25	25	2.1	50	2.200	3492025
ES M 12x50	M12	15	50	50	2.4	50	4.100	3492026

Impact tie for single fastening of non-load-bearing systems in non-cracked concrete as well as for multiple fastening in cracked and non-cracked concrete.

Tested to fire protection standards, fire resistance class R 120 according to European Technical Approval ETA-02/0020 (option 7) and European Technical Approval ETA-05/0116.

Mounting with marking and setting tool.

A4

Impact tie, version with collar

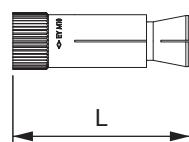
Type	Thread	Drill hole Ø	Drill hole depth	Dim. L	Perm. load range, tension zone	Pack Piece	Weight kg/100 pc.	Item no.
ES M 8x30 A4	M8	10	30	30	1.7	50	1.100	3492003
ES M 10x40 A4	M10	12	40	40	2	50	2.000	3492008
ES M 12x50 A4	M12	15	50	50	2.4	50	4.300	3492012

Impact tie for single fastening of non-load-bearing systems in non-cracked concrete as well as for multiple fastening in cracked and non-cracked concrete.

Tested to fire protection standards, fire resistance class R 120 according to European Technical Approval ETA-02/0020 (option 7) and European Technical Approval ETA-05/0116.

Mounting with marking and setting tool.

St G

Hollow core anchor Easy

Type	Thread	Drill hole Ø	Dim. L	Pack Piece	Weight kg/100 pc.	Item no.
Easy M6	M6	10	40	50	1.000	3498768
Easy M8	M8	12	44	25	1.500	3498770
Easy M10	M10	16	53	25	3.320	3498774
Easy M12	M12	18	58	25	4.230	3498776

Hollow core anchor "Easy" for mounting in prestressed hollow concrete slabs. When the screw or the nut is tightened, the cone is released from the anchor sleeve and pulled into it. This makes the anchor expand in the hollow space, thereby creating firm lock. The hollow core anchor can also be used when the expansion area is not located in the cavity.

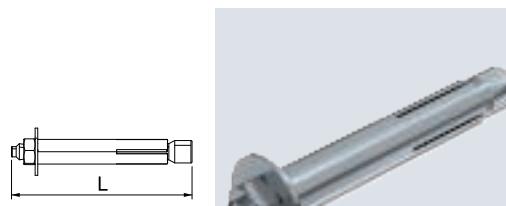
The fastening of the component can be done with standard screws and threaded rods.

General type approval Z-21.1-1785 granted by the German Institute for civil engineering (DIBt), Berlin, including permissible loads when exposed to fire up to a fire resistance duration of 120 minutes.



St G
DIBt U**Porous concrete anchor with external thread**

Type	Thread	Dim. mm	Fix- ture thick- ness L	Pack Piece	Weight kg/100 pc.	Item no.
PBD M6x10	M6	10	86	25	4.900	3497600
PBD M8x10	M8	10	88	25	7.600	3497608
PBD M10x10	M10	10	90	25	11.400	3497616



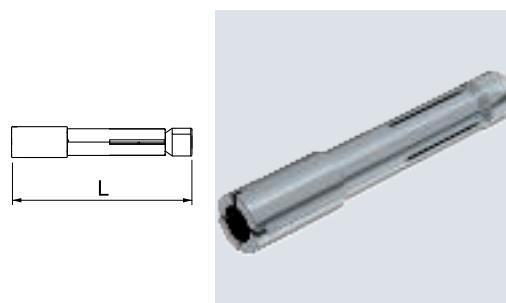
Steel spreading anchor tested for fire protection properties and approved for use in porous concrete.

Version with external thread. Suitable for fire loads of up to 120 minutes, please refer to the general construction approval for the load values (applies to porous concrete of resistance classes of min. 3.3).

A setting tool is required for mounting.

St G
DIBt U**Porous concrete anchor with internal thread**

Type	Thread	Dim. L	Pack Piece	Weight kg/100 pc.	Item no.
PBD i M6	M6	82	25	4.500	3497700
PBD i M8	M8	82	25	6.200	3497702
PBD i M10	M10	92	25	9.300	3497704
PBD i M12	M12	92	25	8.900	3497706



Steel spreading anchor tested for fire protection properties and approved for use in porous concrete.

Version with internal thread. Suitable for fire loads of up to 120 minutes, please refer to the general construction approval for the load values (applies to porous concrete of resistance classes of min. 3.3).

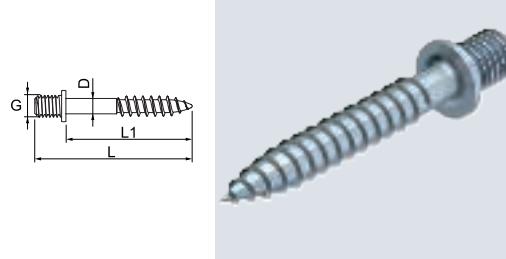
A setting tool is required for mounting.

Screw-in anchor

St G

Screw-in anchor with M6 thread

Type	Dim. G	Dim. D	Dim. L1	Dim. L	Pack Piece	Weight kg/100 pc.	Item no.
985 M6 25	M6	4.3	25	35	100	0.412	3133028
985 M6 35	M6	4.3	35	45	100	0.533	3133036

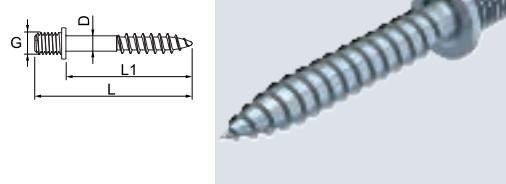


With wood screw shank and M6 thread.

St G

Screw-in anchor with M8 thread

Type	Dim. G	Dim. D	Dim. L1	Dim. L	Pack Piece	Weight kg/100 pc.	Item no.
985 M8 35	M8	5.2	35	47	100	0.950	3133230



With wood screw shank and M8 thread.



Injection mortar in cartridge, 280 ml



Type	Contents ml	Pack Piece	Weight kg/100 pc.	Item no.
VMU plus 280	280	1	56.000	3497800

Styrene-free, vinyl ester composite mortar for spread-free anchoring of high loads with threaded anchor rods. Coaxial cartridge, including 1 mixing tube, to be worked with the standard cartridge gun or VM-P 345 Profi.

European Technical Assessment for cracked and uncracked concrete, as well as for masonry of full and hollow brick. Earthquake-proof in concrete according to Category C1. Fire protection approval for concrete and masonry with fire resistance classes up to 120 minutes.

Substrate temperature during processing –10 °C to +40 °C (concrete), ambient temperature after complete hardening –40 °C to +120 °C (in concrete). Will keep for at least 18 months if stored in a dark, cool and dry place.

The injection mortar has a European Technical Approval (ETA) for cracked and uncracked concrete, as well as for masonry of full or hollow brick. It is earthquake-proof according to performance category C1 and has fire protection approvals for concrete and masonry with a fire resistance class up to 120 minutes.

Injection mortar in cartridge, 420 ml



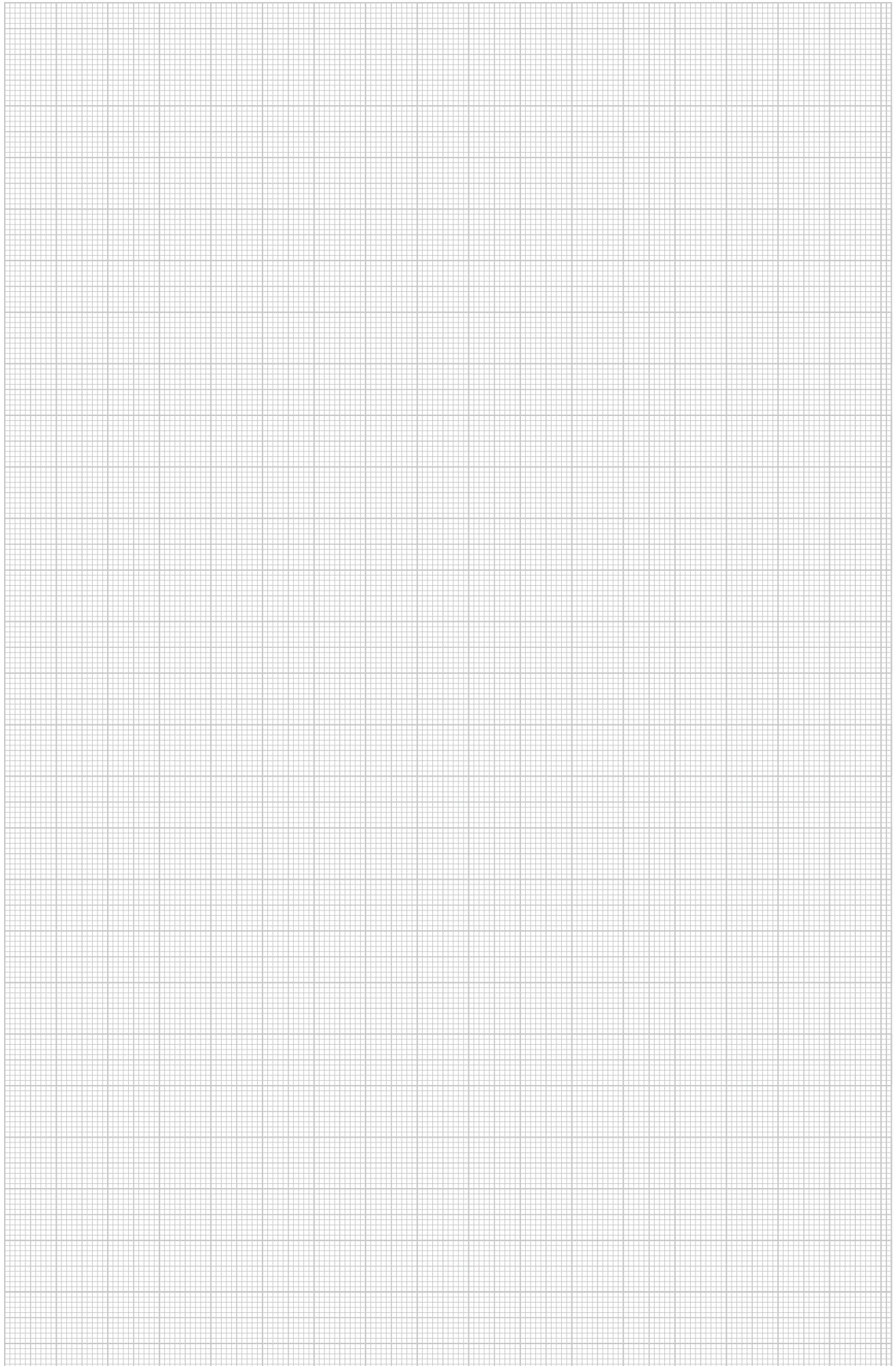
Type	Contents ml	Pack Piece	Weight kg/100 pc.	Item no.
VMU plus 420	420	1	83.000	3497803

Styrene-free, vinyl ester composite mortar for spread-free anchoring of high loads with threaded anchor rods. Coaxial cartridge, including one mixing tube, to be worked with the pressing gun, type VM-P 380 Profi.

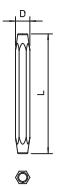
European Technical Assessment for cracked and uncracked concrete, as well as for masonry of full and hollow brick. Earthquake-proof in concrete according to Category C1. Fire protection approval for concrete and masonry with fire resistance classes up to 120 minutes.

Substrate temperature during processing –10 °C to +40 °C (concrete), ambient temperature after complete hardening –40 °C to +120 °C (in concrete). If stored in a dark, cool and dry place, will keep for at least 18 months.





Flattener

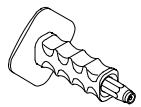


Type	Dim. L mm	Dim. D mm	Size	Pack Piece	Weight kg/100 pc.	Item no.
915 S M6	135	14	M6	1	17.000	3031012

Flattener for OBO anchors 903 with M6 thread.

St

Flattener with hand protection



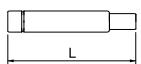
Type	Pack Piece	Weight kg/100 pc.	Item no.
915 RBS M4	1	52.000	3031500

Flattener with hand protection for OBO anchors 903/RB Ø 4 mm and also for OBO anchors 904 with M4 thread.

St

St G

Setting tool for hand hammer

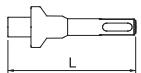


Type	Size	Pack Piece	Weight kg/100 pc.	Item no.
EWP 6x10	M6x10	1	32.500	3497640
EWP 8x10	M8x10	1	39.800	3497648
EWP 10x10	M10x10	1	47.600	3497656

Setting tool PBD porous concrete anchors – for hand hammer.

St G

Setting tool for rotary hammer



Type	Size	Pack Piece	Weight kg/100 pc.	Item no.
SDS-EWP 8x10	M8x10	1	26.000	3497676
SDS-EWP 10x10	M10x10	1	25.600	3497684

Setting tool for PBD porous concrete anchors – for rotary hammer with SDS seat.

St G

Setting tool for hand hammer



Type	Size	Pack Piece	Weight kg/100 pc.	Item no.
EWP 6 i	M6x10	1	30.000	3497720
EWP 8 i	M8x10	1	37.100	3497722
EWP 10 i / 12 i	M10/M12x10	1	44.800	3497724

Setting tool for PBDi porous concrete anchors – for hand-hammer.

Pressing gun for 10:1 coaxial cartridges

Type	Pack	Weight	
	Piece	kg/100 pc.	Item no.
VM-P 380 Profi	1	110.000	3497909

High-quality 2-component cartridge pistol. The parallel movement of the outlet to the holding grip ensures easy working. Suitable for the injection mortar type VMU plus 420.



Pressing gun for standard cartridges and side-by-side cartridges

Type	Pack	Weight	
	Piece	kg/100 pc.	Item no.
VM-P 345 Profi	1	100.000	3497906

Side-by-side cartridge pistol for the use of standard cartridges or side-by-side cartridges. The cartridge pistol is suitable for the injection mortar VMU plus 280 and can also be used with normal 300 ml cartridges.



Blow pump

Blow pump for drill holes

Type	Pack	Weight	
	Piece	kg/100 pc.	Item no.
VM-AP 360	1	27.000	3497912

Manual pump with 750 ml air volume for blowing out drill holes according to anchor approval.



Mixer tubes

PA

Mixer pipe for mortar cartridge

Type	Pack	Weight	
	Piece	kg/100 pc.	Item no.
VM-X	12	1.000	3497981

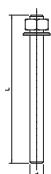
Mixing tubes for attachment to the cartridges of the VMU plus injection mortar system.



Anchor rods

St G

Anchor rod



Type	Dim. L mm	Dim. d mm	Thread	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
VMU-A 8-110vz	110	6.5	M8	13	10	4.350	3497820
VMU-A 10-130vz	130	8.2	M10	17	10	8.150	3497822
VMU-A 10-150vz	150	8.2	M10	17	10	9.150	3497824
VMU-A 12-155vz	155	9.9	M12	19	10	13.850	3497826
VMU-A 8-110A4	110	6.5	M8	13	10	4.350	3497830
VMU-A 10-130A4	130	8.2	M10	17	10	8.150	3497832
VMU-A 12-155A4	155	9.9	M12	19	10	13.850	3497834

With the anchor rod and matching plastic wire sleeve, loads are fastened without spreading pressure in masonry walls using the VMS plus injection mortar. The system is also used for fastening in concrete ceilings. On concrete and full brick walls, the anchor rod is only mounted with the injection mortar VMU plus, without a wire sleeve.

The anchor rod VMU-A 8x110 mm is mounted using the plastic wire sleeve VM-SH 12x80 or VM-SH 16x85.

The anchor rod VMU-A 10x130 mm is mounted using the plastic wire sleeve VM-SH 16x85.

The anchor rod VMU-A 10x150 mm is mounted using the plastic wire sleeve VM-SH 16x85 or VM-SH 16x130.

The anchor rod VMU-A 12x155 mm is mounted using the plastic wire sleeve VM-SH 20x85.

Use the wire sleeve VMU-SH 12x50 for the anchor rods M6 (L=65 mm) and M8 (L=65 mm). Should the anchor rods M8 (L=120 mm), M10 (L=140 mm), M10 (L=160 mm) and M12 (L=165 mm) be used, then use the wire sleeve VMU-SH 18x95.

Cleaning brush

St G

Steel cleaning brush for drill holes



Type	Dia- meter mm	Length mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
RB 10 M 6	10	130	M6	1	5.000	3497870
RB 12 M 6	12	140	M6	1	5.000	3497872
RB 14 M 6	14	180	M6	1	5.000	3497874
RB 16 M 6	16	190	M6	1	5.000	3497875
RB 18 M 6	18	200	M6	1	5.000	3497876
RB 20 M 6	20	220	M6	1	5.000	3497878

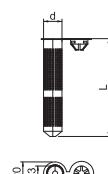
Using the steel wire brush, drill holes must be mechanically cleaned according to the anchor approval, in order to obtain a clean adhesion substrate for the injection mortar.

The steel wire brush is fixed to an SDS adapter with a threaded connection, in order to clean the drill holes with a drill.

Sleeves

PA

Plastic wire sleeve



Type	Dim. L mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
VMU-SH 12x80	80	12	10	0.200	3497860
VMU-SH 16x85	85	16	10	0.300	3497862
VMU-SH 16x130	130	16	10	0.400	3497864
VMU-SH 20x85	85	20	10	0.400	3497866

The plastic wire sleeve is a supplement to the anchor rod or internal thread sleeve and is used to install components on masonry.

The plastic wire sleeve VM-SH 12x80 is mounted with the anchor rod VMU-A 8x110.

The plastic wire sleeve VM-SH 16x85 is mounted with the anchor rods VMU-A 10x130 and VMU-A 10x150 or the internal thread sleeve VMU-IG M6x80.

The plastic wire sleeve VM-SH 16x130 is mounted with the anchor rod VMU-A 10x150.

The plastic wire sleeve VM-SH 20x85 is mounted with the anchor rod VMU-A 12x155 or the internal thread sleeve VMU-IG M8x80 and VMU-IG M10x80.

St

SDS adapter

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
RBL M6 SDS	150	1	6.000	3497915

Adapter for accepting steel wire brushes for mechanical cleaning of drill holes according to the anchor approval.
Suitable for drills with SDS seat.

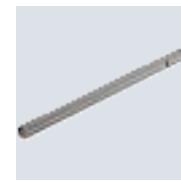
**Extensions**

St

SDS extension

Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
RB-L 150 M6	150	1	9.700	3497932

Extension with internal and external M6 thread for the connection of the SDS adapter with steel wire brush in difficult to access drill holes.

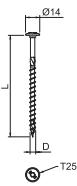




Wood screws

St G

Flange head-screw HT 6

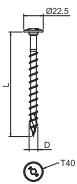


Type	D mm	L mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
HT 6x60 TD	6	60	14	Torx	200	0.850	3498130
HT 6x80 TD	6	80	14	Torx	100	1.100	3498132
HT 6x100 TD	6	100	14	Torx	100	1.300	3498134
HT 6x120 TD	6	120	14	Torx	100	1.300	3498136

Self-tapping wood screw for fireproof fastening of cable systems for the maintenance of electrical function according to DIN 4102 Part 12 on supporting wooden structures. The flange head shape allows installation without an additional washer.

Flange head-screw HT 10

St G



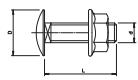
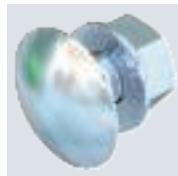
Type	D mm	L mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
HT 10x80 TD	10	80	22.5	Torx	50	3.100	3498140
HT 10x100 TD	10	100	22.5	Torx	50	3.700	3498142
HT 10x120 TD	10	120	22.5	Torx	50	4.300	3498144
HT 10x140 TD	10	140	22.5	Torx	50	4.900	3498146

Self-tapping wood screw for fireproof fastening of cable systems for the maintenance of electrical function according to DIN 4102 Part 12 on supporting wooden structures. The flange head shape allows installation without an additional washer.

Truss-head bolts

St G

Truss-head bolt with combination nut

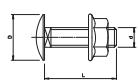


Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. D mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRSB 6x12 G	M6x12	12	6	13.5	5.6	100	0.804	6406130

Hot galvanised truss-head bolt with square neck including electrogalvanised combination nut.
For universal fastening of construction components. Permitted use of the article only in dry atmospheres.

Truss-head bolt with flange nut

St F



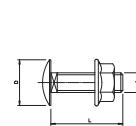
Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. D mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRSB 6x12 VZ F	M6x12	12	6	13.5	5.6	10	0.840	6406125
FRSB 6x12 F	M6x12	12	6	13.5	5.6	100	0.812	6406122
FRSB 6x16 F	M6x16	16	6	13.5	5.6	100	0.890	6406157
FRSB 6x20 F	M6x20	20	6	13.5	5.6	100	0.965	6406203
FRSB 6x30 F	M6x30	30	6	13.5	5.6	100	1.232	6406907

Truss-head bolt with square neck including flange nut.

VA VA 2B

Truss-head bolt with flange nut

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. D mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRSB 6x12 A2	M6x12	12	6	13.5	A2-70	100	0.830	6406138
FRSB 6x16 A2	M6x16	16	6	13.5	A2-70	100	0.800	6406189
FRSB 6x20 A2	M6x20	20	6	13.5	A2-70	100	0.960	6406205
FRSB 6x12 A4	M6x12	12	6	13.5	A4-50	100	0.796	6406142
FRSB 6x16 A4	M6x16	16	6	13.5	A4-50	100	0.800	6406193
FRSB 6x20 A4	M6x20	20	6	13.5	A4-70	100	0.960	6406207

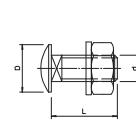


Truss-head bolt with square neck including flange nut.

St F

Truss-head bolt with nut and washer

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. D mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 8x16 F 8.8	M8x16	16	8	20	8.8	50	1.947	6406963
FRS 8x20 F	M8x20	20	8	20	5.6	50	2.054	6406971
FRS 8x25 F	M8x25	25	8	20	8.8	50	2.217	6406998
FRS 8x35 F	M8x35	35	8	20	5.6	50	2.431	6407048
FRS 10x20 F	M10x20	20	10	24	8.8	50	4.100	6407471
FRS 10x25 F	M10x25	25	10	24	5.6	50	4.077	6407528
FRS 10x25 F 8.8	M10x25	25	10	24	8.8	50	4.500	6407560
FRS 10x25 TPS F	M10x25	25	10	18	5.6	50	4.300	6407536
FRS 10x30 F	M10x30	30	10	24	8.8	50	4.187	6407579
FRS 12x25 F	M12x25	25	12	30	5.6	50	6.518	6406254
FRS 12x30 F	M12x30	30	12	30	5.6	50	6.805	6406270



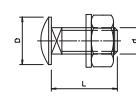
Truss-head bolt with square neck. With washer and hexagonal nut.

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

VA VA VA 2B

Truss-head bolt with nut and washer

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. D mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 6x12 A2	M6x12	12	6	13.5	A2-70	100	0.760	6406521
FRS 6x16 A2	M6x16	15	6	13.5	A2-70	100	0.869	6406556
FRS 6x20 A2	M6x20	20	6	13.5	A2-70	100	0.942	6406602
FRS 8x16 A2	M8x16	16	8	20	A2-70	50	1.926	6406696
FRS 8x25 A2	M8x25	25	8	20	A2-70	50	2.300	6406815
FRS 8x35 A2	M8x35	35	8	20	A2-70	50	2.700	6406823
FRS 10x25 A2	M10x25	25	10	24	A2-70	50	3.905	6406718
FRS 10x30 A2	M10x30	30	10	24	A2-70	50	4.500	6406726
FRS 12x25 A2	M12x25	25	12	30	A2-70	25	6.400	6406750
FRS 12x30 A2	M12x30	30	12	30	A2-50	25	6.800	6406769
FRS 6x12 A4	M6x12	12	6	13.5	A4-70	100	0.820	6406564
FRS 6x16 A4	M6x16	16	6	13.5	A4-70	100	0.900	6406580
FRS 6x20 A4	M6x20	20	6	13.5	A4-70	100	0.977	6406610
FRS 8x16 A4	M8x16	16	8	20	A4-50	50	2.200	6406653
FRS 8x16 A4	M8x16	16	8	20	A4-70	50	2.200	6406698
FRS 12x25 A4	M12x25	25	12	30	A4-70	25	6.400	6406785
FRS 10x20 A4	M10x20	20	10	24	A4-70	50	4.000	6406870



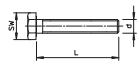
Truss-head bolt with square neck including washer and hexagonal nut.



Hexagonal bolts

Hexagonal bolt with nut and washer

St F

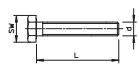


Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 6x12 F	M6x12	12	6	10	5.6	100	0.810	3156494
SKS 6x20 F	M6x20	20	6	10	5.6	100	0.917	3156516
SKS 6x30 F	M6x30	30	6	10	5.6	100	1.097	3156524

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer

St F



Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 8x16 F	M8x16	16	8	13	8.8	50	1.691	3158624
SKS 8x20 F	M8x20	20	8	13	8.8	50	1.837	3158632
SKS 8x30 F	M8x30	30	8	13	5.6	50	2.144	3158640

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer

St F

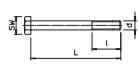


Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x25 F	M10x25	25	10	17	8.8	50	3.719	3160734
SKS 10x30 F	M10x30	30	10	17	8.8	50	3.995	3160742
SKS 10x40 F	M10x40	40	10	17	8.8	50	4.422	3160750
SKS 10x60 F	M10x60	60	10	17	8.8	20	6.000	6408516
SKS 10x80 F	M10x80	80	10	17	8.8	20	7.700	6418250
SKS 10x90 F	M10x90	90	10	17	8.8	20	8.950	6418252
SKS 10x120 F	M10x120	120	10	17	8.8	20	8.294	3160793

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer

St G

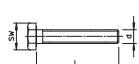


Type	Dimen- sion mm	Dim. L mm	Dim. I mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x110 G	M10x110	110	30	10	17	5.6	20	9.500	6418244

Hexagonal bolt with washers and hexagonal nut.

Hexagonal bolt with nut and washer

A4



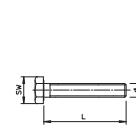
Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x30 A4	M10x30	30	10	17	A4-70	50	3.000	3160752

Hexagonal bolt for universal fixing of structure components.

St F

Hexagonal bolt with nut and washer

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x30 F	M12x30	30	12	19	8.8	20	5.990	3163091
SKS 12x40 F	M12x40	40	12	19	8.8	25	7.800	3163113
SKS 12x60 F	M12x60	60	12	19	8.8	25	8.057	3163156

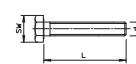


Hexagonal bolt for universal fixing of structure components.

VA VA 2B

Hexagonal bolt with nut and washer

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x90 A2	M10x90	90	10	17	A2-70	20	10.038	6418255
SKS 10x80 A4	M10x80	80	10	17	A4-70	20	7.800	6418248
SKS 10x90 A4	M10x90	90	10	17	A4-70	20	7.800	6418256

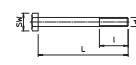


Hexagonal bolt for universal fixing of structure components.

St F

Hexagonal bolt with hexagonal nut, washer and tooth lock washer

Type	Dimen- sion mm	Dim. L mm	Dim. I mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x80 F	M12x80	80	30	12	19	8.8	20	10.000	6418287
SKS 12x100 F	M12x100	100	30	12	19	8.8	20	10.981	6418295
SKS 12x110 F	M12x110	110	30	12	19	8.8	20	14.500	6418317
SKS 12x130 F	M12x130	130	36	12	19	8.8	20	13.101	6408478

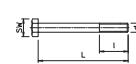


Hexagonal bolt with hexagonal nut, washer and tooth lock washer.

VA 2B

Hexagonal bolt with hexagonal nut, washer and tooth lock washer

Type	Dimen- sion mm	Dim. L mm	Dim. I mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x80 A2	M12x80	80	30	12	19	A2-70	20	10.400	6418279
SKS 12x100 A2	M12x100	100	30	12	19	A2-70	20	12.000	6418368
SKS 12x110 A2	M12x110	110	30	12	19	A2-70	20	14.500	6418376

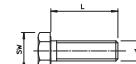


Hexagonal bolt for universal fixing of structure components.

St F

Hexagonal bolt with large surface screw, washer and nut

Type	Dimen- sion mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x40 G F	M12x40	40	12	19	8.8	10	9.800	3164020



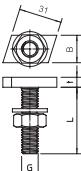
Hexagonal bolt with hexagonal nut, large washer and washer.

For fastening wall and support brackets on adapter plates.

Hook head screws

St ZL

Hook-head screw

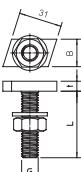


Type	Length mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M6x30 ZL	35	17	50	4.800	1148106
MS40HB M8x30 ZL	35	17	50	5.650	1148110
MS40HB M8x60 ZL	35	17	25	6.850	1148114
MS40HB M10x30 ZL	35	14	50	6.000	1148118
MS40HB M10x60 ZL	35	14	25	7.850	1148122
MS40HB M12x30 ZL	35	14	50	7.550	1148126
MS40HB M12x60 ZL	35	14	25	10.250	1148130

Hook-head screw for use with MS4022 profile rail

Hook head screw

A4 2B

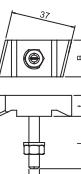


Type	Length mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M8x30 A4	35	17	50	5.650	1148150
MS40HB M8x60 A4	35	17	25	6.850	1148154
MS40HB M10x30 A4	35	14	50	6.000	1148160
MS40HB M10x60 A4	35	14	25	7.850	1148164
MS40HB M12x30 A4	35	14	50	7.550	1148168
MS40HB M12x60 A4	35	14	25	9.320	1148170

Hook-head screw for use with MS4022 profile rail

Hook-head screw

St ZL

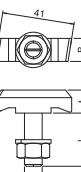


Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
MS50HB M6x30 ZL	43	21	12	50	7.800	1148206
MS50HB M8x30 ZL	43	21	12	50	8.700	1148210
MS50HB M8x60 ZL	43	21	12	25	9.900	1148214
MS50HB M10x30 ZL	43.3	13	10	50	7.700	1148218
MS50HB M10x60 ZL	43.3	13	10	25	9.450	1148222
MS50HB M12x30 ZL	43.3	13	10	50	9.000	1148226
MS50HB M12x60 ZL	43.3	13	10	25	11.650	1148230

Hook-head screw for use with MS5030 profile rail

Hook head bolt

A4 2B

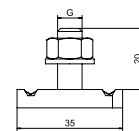


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50HB M10x30 A4	43.3	13	10	M10x30mm	50	7.700	1148268
MS50HB M10x60 A4	43.3	13	10	M10x60mm	25	9.450	1148272
MS50HB M12x30 A4	43.3	13	10	M12x30mm	50	9.000	1148276
MS50HB M12x60 A4	43.3	13	10	M12x60mm	25	11.650	1148280

Hook-head screw for use with MS5030 profile rail

St ZL

Type	Length mm	Width mm	Height mm	Torque Thread Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M6x30 ZL	35	20	6	M6x30 3.3	50	4.000	1148306
MS41HB M8x30 ZL	35	20	6	M8x30 8	50	4.850	1148310
MS41HB M8x60 ZL	35	20	6	M8x60 8	25	6.000	1148314
MS41HB M8x100 ZL	35	20	6	M8x100 8	20	7.600	1148318
MS41HB M10x30 ZL	35	20	8	M10x30 16	50	7.400	1148322
MS41HB M10x60 ZL	35	20	8	M10x60 16	25	9.250	1148326
MS41HB M10x100ZL	35	20	8	M10x100 16	20	11.700	1148330
MS41HB M12x30 ZL	35	20	9.5	M12x30 27	50	9.750	1148334
MS41HB M12x60 ZL	35	20	9.5	M12x60 27	25	12.400	1148338
MS41HB M12x100ZL	35	20	9.5	M12x100 27	20	15.950	1148342

Hammer-head bolt

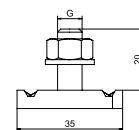
Hammer-head bolt for use with MS4121 and MS4141 profile rails

A4 2B

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Torque Thread Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M10x30 A4	35	20	8	M10x30 9.9	50	7.350	1148422

Hammer-head bolt for use with MS4121 and MS4141 profile rails

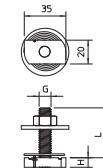


St F

Hammer-head bolt with spring

Type	Length mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M8x30 F	35	20	50	5.200	1148376
MS41HBF M8x60 F	35	20	25	6.300	1148380
MS41HBF M10x30 F	35	20	50	7.700	1148384
MS41HBF M10x60 F	35	20	25	9.550	1148388
MS41HBF M12x30 F	35	20	50	10.000	1148392
MS41HBF M12x60 F	35	20	25	12.700	1148396

Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails

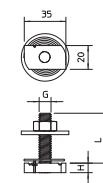


A4 2B

Hammer-head bolt with spring

Type	Length mm	Width mm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M10x30A4	35	20	50	7.350	1148484
MS41HBF M10x60A4	35	20	25	9.200	1148488
MS41HBF M12x30A4	35	20	50	9.700	1148492
MS41HBF M12x60A4	35	20	25	12.400	1148496

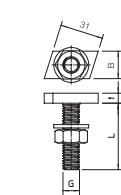
Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails



St ZL

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Pack Piece	Weight kg/100 pc.	Item no.
ACMHB M6x30 ZL	26	16.5	5	50	2.600	1148056
ACMHB M8x30 ZL	26	16.5	5	50	3.197	1148060
ACMHB M8x60 ZL	26	16.5	5	25	4.650	1148064
ACMHB M10x30 ZL	26	16.5	5	50	4.950	1148068
ACMHB M10x60 ZL	26	16.5	5	25	6.750	1148072

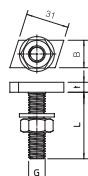


Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

Hammer-head bolts

A4 2B

Hammer-head bolt



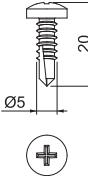
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMHB M6x30 A4	26	16.5	5	M 6 x 30 mm	50	2.600	1148076
ACMHB M8x30 A4	26	16.5	5	M 8 x 30 mm	50	3.450	1148080
ACMHB M8x60 A4	26	16.5	5	M 8 x 60 mm	25	4.650	1148084
ACMHB M10x30 A4	26	16.5	5	M 10 x 30 mm	50	4.950	1148088
ACMHB M10x60 A4	26	16.5	5	M 10 x 60 mm	25	6.240	1148092

Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

Drilling screw

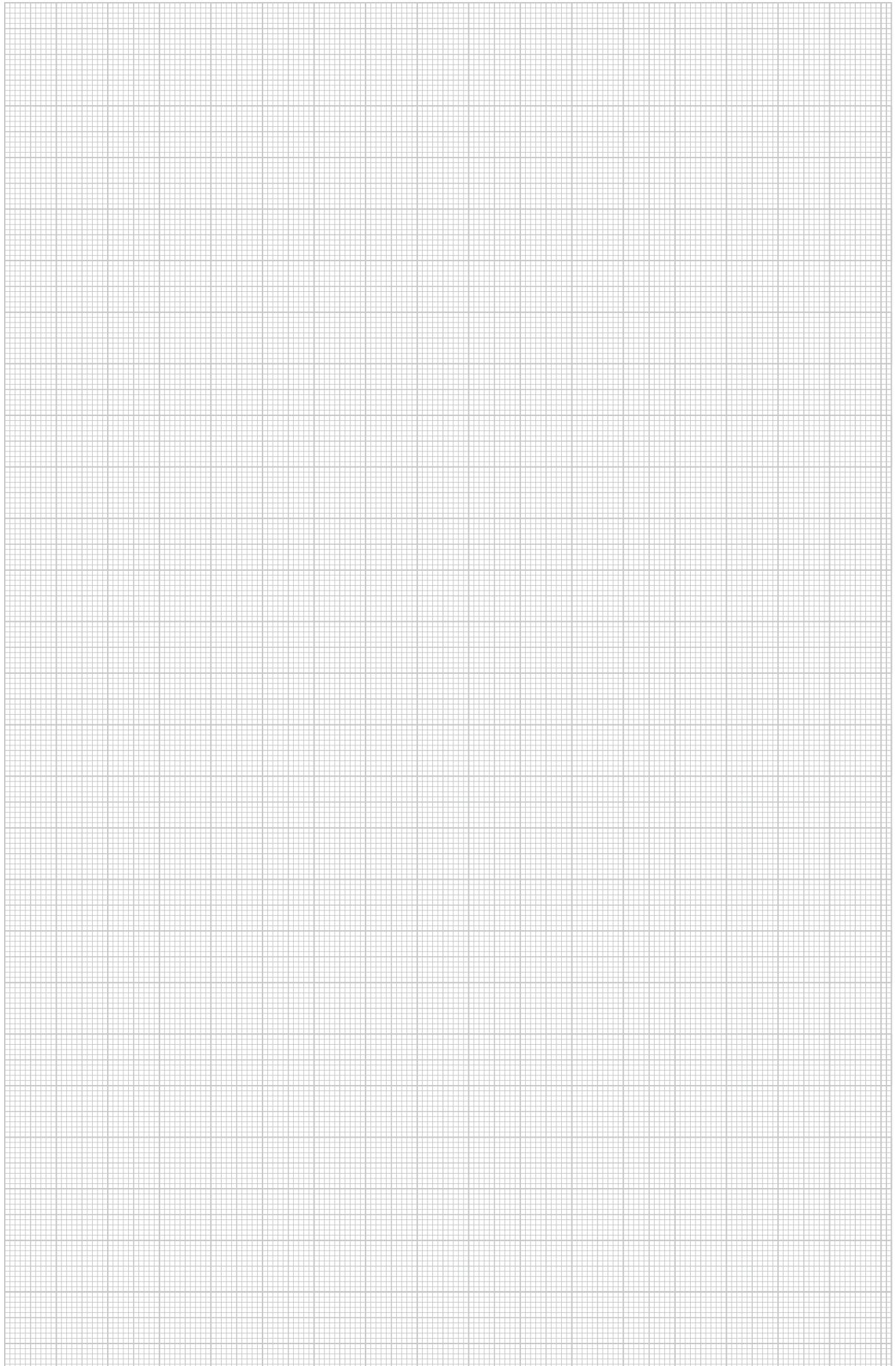
St G
⊕

Drilling screw DIN 7504



Type	Dimen- sion mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN 7504 N G	4,8 x 16	100	0.250	3176428

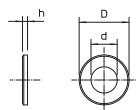
Self-tapping, with Philips.



Washers

St G

Washer

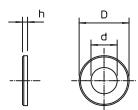


Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 G	M6	6.4	12	1.6	100	0.114	3402061
WS M8 D16 G	M8	8.4	16	1.6	100	0.156	3402088
WS M10 D20 G	M10	10.5	20	2	100	0.408	3402096
WS M12 D24 G	M12	13	24	2.5	100	0.570	3402126

Washer according to DIN 125, shape A, for universal use.

Washer ISO 7093

St G

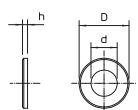


Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D28 G	M6	6.5	28	2.5	100	1.104	3402207
WS M8 D28 G	M8	8.5	28	2.5	100	1.100	3402215
WS M10 D28 G	M10	11	28	2.5	100	1.020	3402223

Washer of large outer diameter for universal use.

Washer

St F

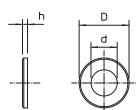


Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
966 M6 F	M6	6.6	12	1.6	100	0.098	3402444
966 M8 F	M8	9	16	1.6	100	0.177	3402452
966 M10 F	M10	11	20	2	100	0.327	3402460
966 M12 F	M12	13.5	24	2.5	100	0.620	3402479

Washer for universal use.

Washer

A2 2B

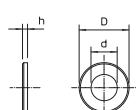


Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A2	M6	6.4	12	1.6	100	0.114	3402304
WS M8 D16 A2	M8	8.4	16	1.6	100	0.214	3402312
WS M10 D20 A2	M10	10.5	20	2	100	0.408	3402320
WS M12 D24 A2	M12	13	24	2.5	100	0.627	3402339

Washer according to DIN 125, shape A, for universal use.

Washer

A4 2B

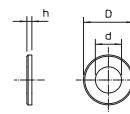


Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A4	M6	6.4	12	1.6	100	0.114	3402306
WS M8 D16 A4	M8	8.4	16	1.6	100	0.214	3402314
WS M10 D20 A4	M10	10.5	20	2	100	0.408	3402322
WS M12 D24 A4	M12	13	24	2.5	100	0.627	3402345

Washer according to DIN 125, shape A, for universal use.

St G

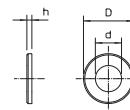
Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 G25 G	M6	6.4	25	1.2	100	0.428	3403084
WS M8 G20 G	M8	8.4	20	1.25	100	0.227	3403122
WS M8 G25 G	M8	8.4	25	1.2	100	0.408	3403130
WS M10 G30 G	M10	10.5	30	1.5	100	0.598	3403165

Fender washer

Washer of particularly large outer diameter.

A2 2B

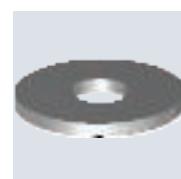
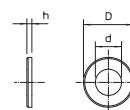
Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M8 D20 A2	M8	8.4	20	1.5	100	0.240	3403125
WS M8 D25 A2	M8	8.4	25	1.5	100	0.370	3403135
WS M8 D40 A2	M8	8.5	40	1.5	100	0.370	3403145
WS M10 D30 A2	M10	10.5	30	1.5	100	0.592	3403155
WS M10 D40 A2	M10	10.5	40	1.5	100	0.592	3403175

Fender washer

Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

A4 2B

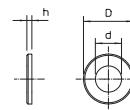
Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M8 D20 A4	M8	8.4	20	1.5	100	0.240	3403127
WS M8 D25 A4	M8	8.4	25	1.2	100	0.370	3403137
WS M8 D40 A4	M8	8.4	40	1.5	100	0.370	3403147
WS M10 D30 A4	M10	10.5	30	1.5	100	0.592	3403163
WS M10 D40 A4	M10	10.5	40	1.5	100	0.592	3403177

Fender washer

Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

St F

Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN440 7 F	M6	6.6	22	2	100	0.535	6408702
DIN440 9 F	M8	9	28	3	100	1.057	6408710
DIN440 11 F	M10	11	34	3	100	1.852	6408729
DIN440 14 F	M12	13.5	44	4	50	4.736	6408737

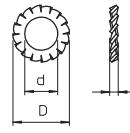
Large washer

Washer of particularly large outer diameter.

Serrated washers

St G

Type	Thread	Dim. d mm	Dim. D mm	Dim. mm	Pack Piece	Weight kg/100 pc.	Item no.
SWS M8 G	M8	8.4	15	2.4	100	0.080	3404080
SWS M10 G	M10	10.5	18	2.7	100	0.125	3404102
SWS M12 G	M12	13	20.5	3	100	0.160	3404129

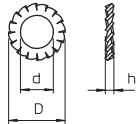
Serrated washer DIN 6798

Serrated washer to DIN 6798, shape A.

Serrated washers

Serrated washer DIN 6798

A4 2B

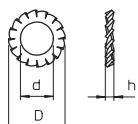


Type	Thread	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		d mm	D mm	Dim. mm			
SWS M6 A4	M6	6.4	11	2.1	100	0.036	3404372
SWS M8 A4	M8	8.4	15	2.4	100	0.080	3404377
SWS M10 A4	M10	10.5	18	2.7	100	0.125	3404381
SWS M12 A4	M12	13	20.5	3	100	0.170	3404385

Serrated washer to DIN 6798, shape A.

Serrated washer DIN 6798

A2 2B



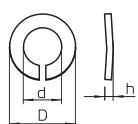
Type	Thread	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		d mm	D mm	Dim. mm			
SWS M6 A2	M6	6.4	11	2.1	100	0.040	3404331
SWS M8 A2	M8	8.4	15	2.4	100	0.080	3404358

Serrated washer to DIN 6798, shape A.

Lock washers

Lock washer

St G



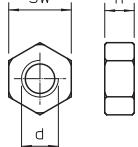
Type	Thread	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		d mm	D mm	Dim. mm			
LWS M6 G	M6	6.3	11.8	2.1	100	0.070	3405060
LWS M8 G	M8	8.3	14.8	2.6	100	0.130	3405087
LWS M10 G	M10	10.5	18.1	3	100	0.210	3405109
LWS M12 G	M12	12.5	21.1	3.5	100	0.320	3405125

Lock washer according to DIN 128, shape A.

Nuts

Hexagonal nut DIN 934

St G

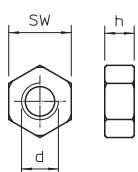


Type	Thread	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		SW mm	Dim. mm	d mm			
HN M6 G	M6	10	5.2	6	100	0.221	3400069
HN M8 G	M8	13	6.8	8	100	0.500	3400085
HN M10 G	M10	17	8.4	10	100	1.014	3400107
HN M12 G	M12	19	10.8	12	100	1.730	3400123

Hexagonal nut to DIN 934 with metric thread.

Hexagonal nut ISO 4032

St F



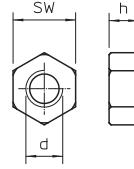
Type	Thread	Dim.			Pack Piece	Weight kg/100 pc.	Item no.
		SW mm	Dim. mm	d mm			
DIN934 M8 F	M8	13	6.8	8	100	0.477	3400352
DIN934 M10 F	M10	17	8.4	10	100	1.061	3400360
DIN934 M12 F	M12	19	10.8	12	100	1.540	3400379

Hexagonal nut to DIN 934 with metric thread.

A2 2B

Hexagonal nut DIN 934

Type	Thread	SW mm	Dim. mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M6 A2	M6	10	5.2	6	100	0.215	3397068
HN M8 A2	M8	13	6.8	8	100	0.520	3397084
HN M10 A2	M10	17	8.4	10	100	1.043	3397106
HN M12 A2	M12	19	10.8	12	100	1.730	3397114

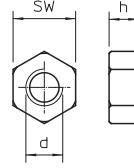


Hexagonal nut to DIN 934 with metric thread.

A4 2B

Hexagonal nut DIN 934

Type	Thread	SW mm	Dim. mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M6 A4	M6	10	5.2	6	100	0.250	3400173
HN M8 A4	M8	13	6.8	8	100	0.520	3400175
HN M10 A4	M10	17	8.4	10	100	1.084	3400177

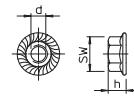


Hexagonal nut to DIN 934 with metric thread.

St G

Flange nut

Type	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 G	6	6	10 8	100	0.315	6408958

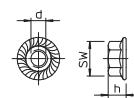


Combination nut with washer based on EN 1661.

St F

Flange nut

Type	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 F	6	6	10 8	100	0.315	6408962

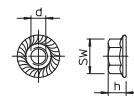


Combination nut with washer based on EN 1661.

VA 2B

Combination nut A2

Type	Dim. d mm	Dim. SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 A2	6	6	10 A2-70	100	0.315	6408966



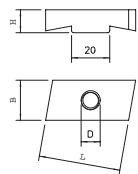
Nut with pressed washer.



Nuts

Slide nut

St ZL

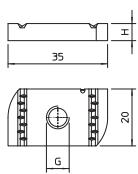


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40SN M6 ZL	35	17	10	M6	50	3.750	1147106
MS40SN M8 ZL	35	17	10	M8	50	3.600	1147110
MS40SN M10 ZL	35	17	10	M10	50	3.400	1147114
MS40SN M12 ZL	35	17	10	M12	50	3.160	1147118

Slide nut for use with MS4022 profile rail

Slide nut

St ZL

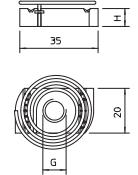


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SN M6 ZL	35	20	6	M6	50	2.880	1147206
MS41SN M8 ZL	35	20	6	M8	50	2.800	1147210
MS41SN M10 ZL	35	20	8	M10	50	3.650	1147214
MS41SN M12 ZL	35	20	9.5	M12	50	4.200	1147218

Slide nut for use with MS4121 und MS4141 profile rails

Slide nut with spring

St F

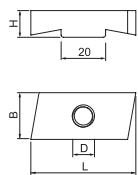


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SNF M6 F	35	20	6	M6	50	3.200	1147306
MS41SNF M8 F	35	20	6	M8	50	3.150	1147310
MS41SNF M10 F	35	20	8	M10	50	4.000	1147314
MS41SNF M12 F	35	20	9.5	M12	50	4.550	1147318

Slide nut with spring for use with MS4121 und MS4141 profile rails

Slide nut

St ZL

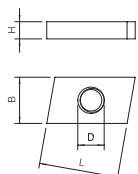


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 ZL	43	21	12	M6	50	6.700	1147156
MS50SN M8 ZL	43	21	12	M8	50	6.550	1147160
MS50SN M10 ZL	43	21	12	M10	50	6.350	1147164
MS50SN M12 ZL	43	21	12	M12	50	6.100	1147168

Slide nut for use with MS5030 profile rail

Slide nut

St ZL



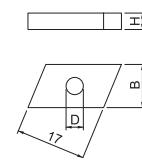
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 ZL	26	16.5	4	M6	100	1.212	1147056
ACMSN M8 ZL	26	16.5	5	M8	100	1.640	1147060
ACMSN M10 ZL	26	16.5	6	M10	100	1.300	1147064

Slide nut for use with CM3015, CM3518 and AM3518 profile rails

St ZL

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL20SN M4 ZL	17	10.5	4	M4	100	0.525	1147008
CL20SN M5 ZL	17	10.5	4	M5	100	0.508	1147012
CL20SN M6 ZL	17	10.5	4	M6	100	0.503	1147016

Slide nut for use with CL2008 profile rail

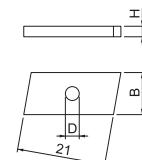


Slide nut

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL27SN M4 ZL	21	10	2.5	M4	100	0.400	1147020
CL27SN M5 ZL	24.5	13	4	M5	100	0.870	1147024
CL27SN M6 ZL	24.5	13	4	M6	100	0.850	1147028
CL27SN M8 ZL	24.5	13	4	M8	100	0.800	1147032

Slide nut for use with CL2712 profile rail



Slide nut

Slide nut

Type	Thread	Dim. L mm	Dim. SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 G	M8	24	13	50	1.880	6410081
CSTR M10 G	M10	30	17	50	4.150	6410103
CSTR M12 G	M12	40	19	25	7.000	6410111

Connection sleeve with continuous internal thread.



Sleeves

Connection sleeve

Type	Thread	Dim. L mm	Dim. SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 A2	M8	24	13	50	1.880	6410154
CSTR M10 A2	M10	30	17	50	4.150	6410162

Connection sleeve with continuous internal thread.

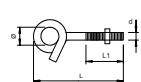


Connection sleeve

Ceiling hook

St G

Ceiling hook



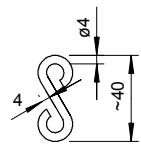
Type	Thread	Dim. d mm	Dim. L mm	Dim. L1 mm	Dimension d Ø mm	Washer Ø mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
948 TG6	M6	6	70	46	13	18	1	25	3.300	3453820

Tightly wound ceiling hook. Including two large washers and nuts.

S hook

St G

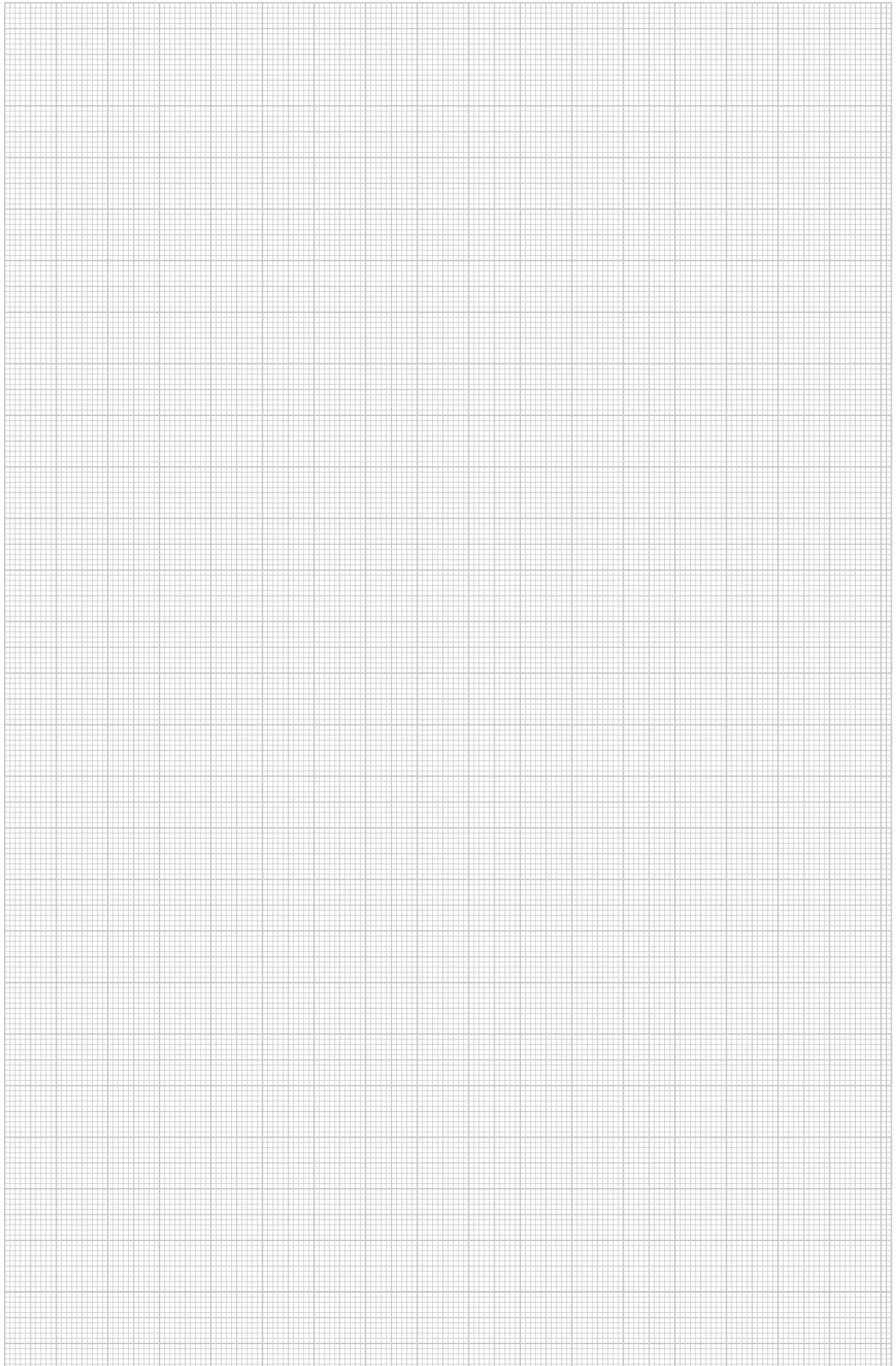
S hook

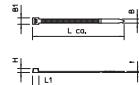


Type	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
SH 40 G	0.5	100	0.800	1488252

Connecting hook of support clamps and suspension chains.

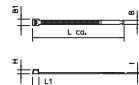




Cable tie, white

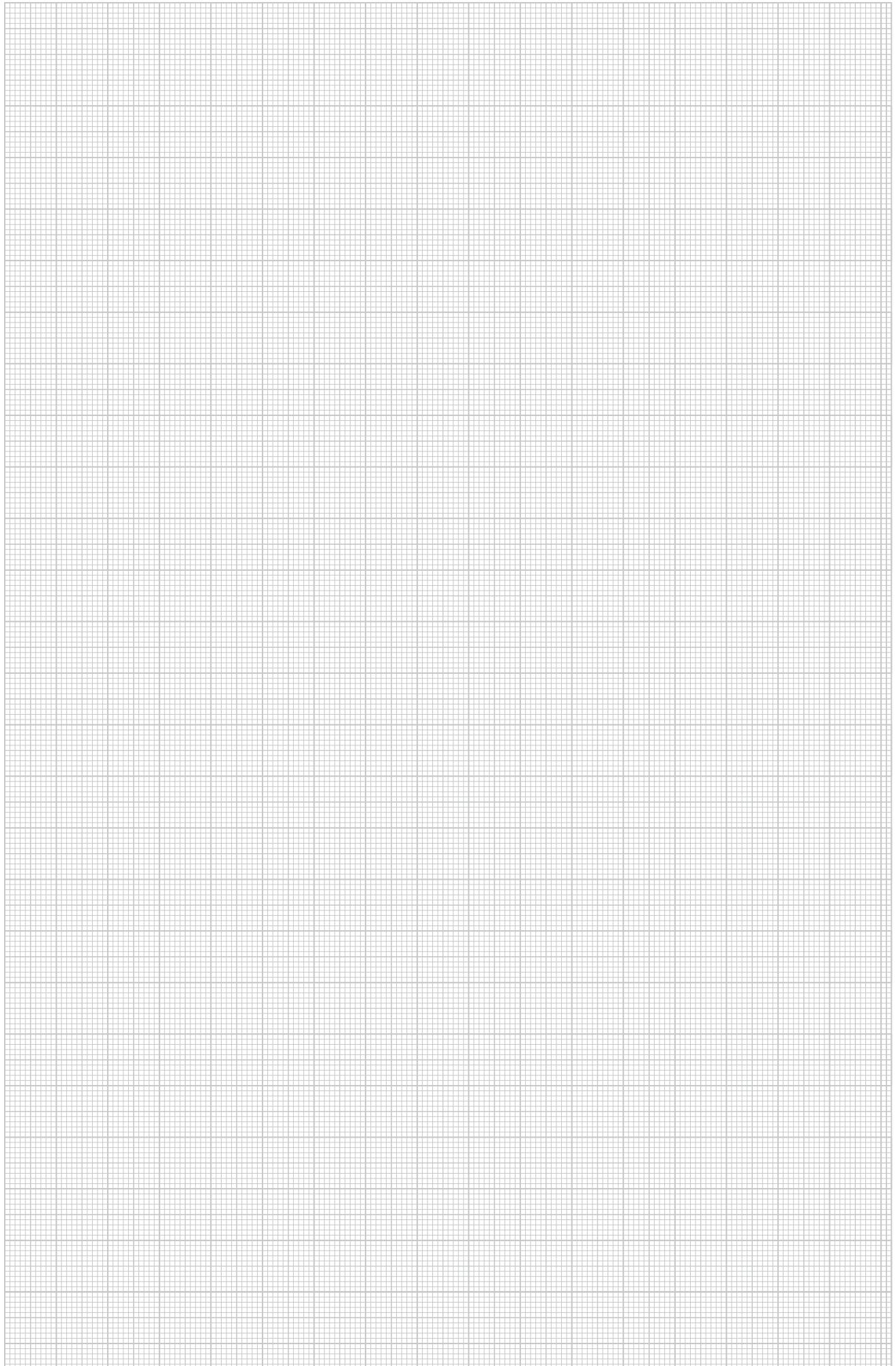
Type	Dim. B mm	Dim. L mm	Dim. t mm	Tensile strength N	Max. bundle Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
565 2.5x75 WS	2.5	75	1	80	15	White	100	0.020	2331800
565 2.5x100 WS	2.5	100	1	80	22	White	100	0.025	2331810
565 2.5x150 WS	2.5	150	1.3	80	39	White	100	0.047	2331816
565 2.5x200 WS	2.5	200	1.3	80	55	White	100	0.062	2331822
565 3.6x150 WS	3.6	150	1.4	180	36	White	100	0.070	2331830
565 3.6x200 WS	3.6	200	1.4	180	52	White	100	0.104	2331836
565 3.6x290 WS	3.6	290	1.4	180	82	White	100	0.140	2331842
565 3.6x365 WS	3.6	365	1.4	180	105	White	100	0.183	2331848
565 4.8x120 WS	4.8	120	1.5	220	27	White	100	0.089	2331860
565 4.8x160 WS	4.8	160	1.6	220	39	White	100	0.120	2331866
565 4.8x200 WS	4.8	200	1.6	220	52	White	100	0.149	2331872
565 4.8x300 WS	4.8	300	1.5	220	83	White	100	0.201	2331878
565 4.8x365 WS	4.8	365	1.5	220	105	White	100	0.251	2331884
565 4.8x430 WS	4.8	430	1.5	220	125	White	100	0.288	2331890
565 7.6x200 WS	7.6	200	1.8	530	52	White	100	0.287	2331910
565 7.6x300 WS	7.6	300	1.6	530	80	White	100	0.334	2331916
565 7.6x380 WS	7.6	380	1.8	530	105	White	100	0.533	2331922
565 7.6x450 WS	7.6	450	2	530	128	White	100	0.717	2331934
565 9x760 WS	9	760	2	800	227	White	100	1.311	2331944

Cable ties are used for quick, uncomplicated fixing or bundling of cables and pipes to cable support systems or other mounting structures.

**Cable tie, black, UV and weather-resistant**

Type	Dim. B mm	Dim. L mm	Dim. t mm	Tensile strength N	Max. bundle Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
565 2.5x75 SWUV	2.5	75	1	80	15	Black	100	0.020	2331802
565 2.5x100 SWUV	2.5	100	1	80	22	Black	100	0.025	2331812
565 2.5x150 SWUV	2.5	150	1.3	80	39	Black	100	0.047	2331818
565 2.5x200 SWUV	2.5	200	1.3	80	55	Black	100	0.062	2331824
565 3.6x150 SWUV	3.6	150	1.4	180	36	Black	100	0.070	2331832
565 3.6x200 SWUV	3.6	200	1.4	180	52	Black	100	0.104	2331838
565 3.6x290 SWUV	3.6	290	1.4	180	82	Black	100	0.140	2331844
565 3.6x365 SWUV	3.6	365	1.4	180	105	Black	100	0.183	2331850
565 4.8x120 SWUV	4.8	120	1.5	220	27	Black	100	0.089	2331862
565 4.8x160 SWUV	4.8	160	1.6	220	39	Black	100	0.120	2331868
565 4.8x200 SWUV	4.8	200	1.6	220	52	Black	100	0.149	2331874
565 4.8x300 SWUV	4.8	300	1.5	220	83	Black	100	0.201	2331880
565 4.8x365 SWUV	4.8	365	1.5	220	105	Black	100	0.251	2331886
565 4.8x430 SWUV	4.8	430	1.5	220	125	Black	100	0.288	2331892
565 7.6x200 SWUV	7.6	200	1.8	530	52	Black	100	0.287	2331912
565 7.6x300 SWUV	7.6	300	1.6	530	80	Black	100	0.334	2331918
565 7.6x380 SWUV	7.6	380	1.8	530	105	Black	100	0.533	2331924
565 7.6x450 SWUV	7.6	450	2	530	128	Black	100	0.717	2331936
565 9x760 SWUV	9	760	2	800	227	Black	100	1.311	2331946

Cable ties are used for quick, uncomplicated fixing or bundling of cables and pipes to cable support systems or other mounting structures.



Loads, installation strip

When two loads are combined, the value of the worst case applies. In addition, the table values only apply under the following conditions:

- In perforated strip 5055, loads may only be applied in the round holes.
- If placing a bolt in the last hole, always ensure that there is one

- full bar left above the hole.
- The right sizes of bolt for the perforated strip must be used (M5 for size I, M6 for size II, M8 for size III).
- The bolts must be tightened. The user of smaller or loose bolts causes a strong drop in the breaking load.



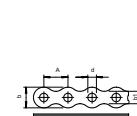
Breaking loads

Type	Art.-No.	Load 1	Load 2	Load 3	Load 4
5055	1470 12 4	2150 N	1850 N	1650 N	3700 N
	1470 17 5	3050 N	2000 N	1800 N	4000 N
	1470 26 4	6750 N	6750 N	3300 N	13500 N
5055/L	1471 12 0	1150 N	1400 N	1200 N	2800 N
	1471 17 1	2200 N	1500 N	1300 N	3000 N
	1471 26 0	5350 N	2800 N	2400 N	5600 N
5055/ L PE	1473 22 0	1500 N	1500 N	1300 N	3000 N
	1473 27 1	2300 N	2300 N	1700 N	4600 N
	1473 36 0	4700 N	4250 N	4000 N	8500 N
5062	1475 12 6	1600 N	1600 N	2150 N	3200 N
	1475 17 7	2350 N	2350 N	3050 N	4700 N
	1475 26 6	4700 N	4700 N	3700 N	9400 N
5062/L	1475 62 2	1300 N	1300 N	1300 N	2600 N
	1475 67 3	1650 N	1650 N	1300 N	3300 N
	1475 76 2	3800 N	3800 N	3200 N	7600 N



Perforated steel strap, ridged

Type	Dim. d mm	Dim. b mm	Dim. A mm	Per. roll m	Pack Piece	Weight kg/100 pc.	Item no.
5062 I12 FS	5	12	14	10	1	69.000	1475126
5062 II17 FS	7	17	20	10	1	98.500	1475177
5062 III26 FS	9	26	25	10	1	183.000	1475266
5062 LI12 FS	5	12	14	10	1	57.000	1475622
5062 LII17 FS	7	17	20	10	1	73.000	1475673
5062 LIII26 FS	9	26	25	10	1	153.000	1475762

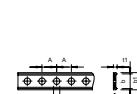


Perforated strap with wavy edges, in practical uncoiling box.



Perforated steel strap, plastic-coated

Type	Dimen- sion mm	Dim. d mm	Dim. A mm	Per. roll m	Pack Piece	Weight kg/100 pc.	Item no.
5055 L PE I 14	14x3	5.2	12	10	1	70.000	1473220
5055 L PE II 19	19x3	6.5	15	10	1	100.500	1473271
5055 L PE III 28	28x3.7	8.5	20	10	1	167.500	1473360



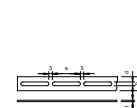
Perforated steel strap with PE plastic jacketing.

Slotted steel straps



Slotted steel strap in strips

Type	Dimen- sion mm	Hole size mm	Length mm	Pack m	Weight kg/100 m	Item no.
OSS 20x3 3M FT	20x3	6.5x40	3000	60	35.000	1465767
OSS 30x3 3M FT	30x3	8.5x60	3000	30	53.600	1465805
OSS 40x4 3M FT	40x4	8.5x70	3000	30	101.000	1465821

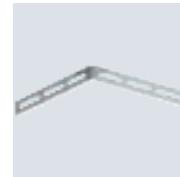
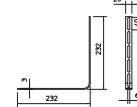


Perforated slotted steel strap in strips.



Slotted steel strap, bent

Type	Dimen- sion mm	Pack Piece	Weight kg/100 pc.	Item no.
OSG 20X3 FT	20x3	25	15.800	6017371

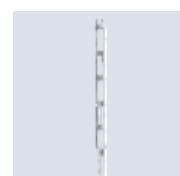


Bent slotted steel strap for creation of bends and tees.

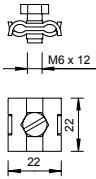


Suspension chain

Type	Break load kN	Pack m	Weight kg/100 m	Item no.
K-C30 G	0.7	25	13.600	1488201

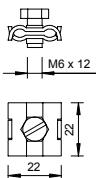


To suspend luminaire supports or other components.

Wire cable clamp

Type	For rope-Ø mm	Bolt	Pack Piece	Weight kg/100 pc.	Item no.
261 3-6 G	3-6	M6x12	100	1.498	5305012

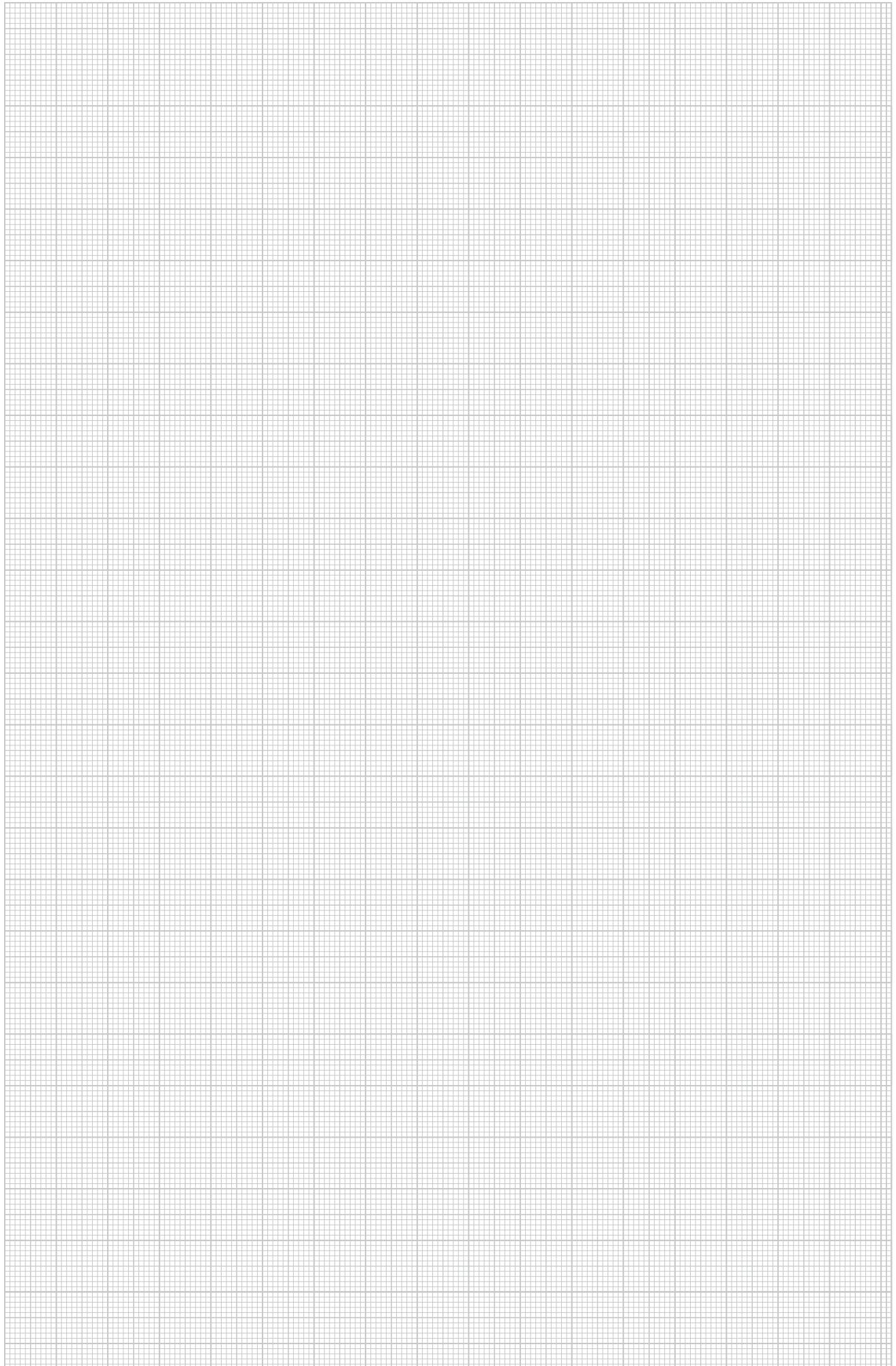
Wire cable clamp for fastening steel wire tensioning ropes.

Wire cable clamp

Type	For rope-Ø mm	Bolt	Pack Piece	Weight kg/100 pc.	Item no.
261 3-6 A4	3-6	M6x12	100	1.498	5305016

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.





Directories

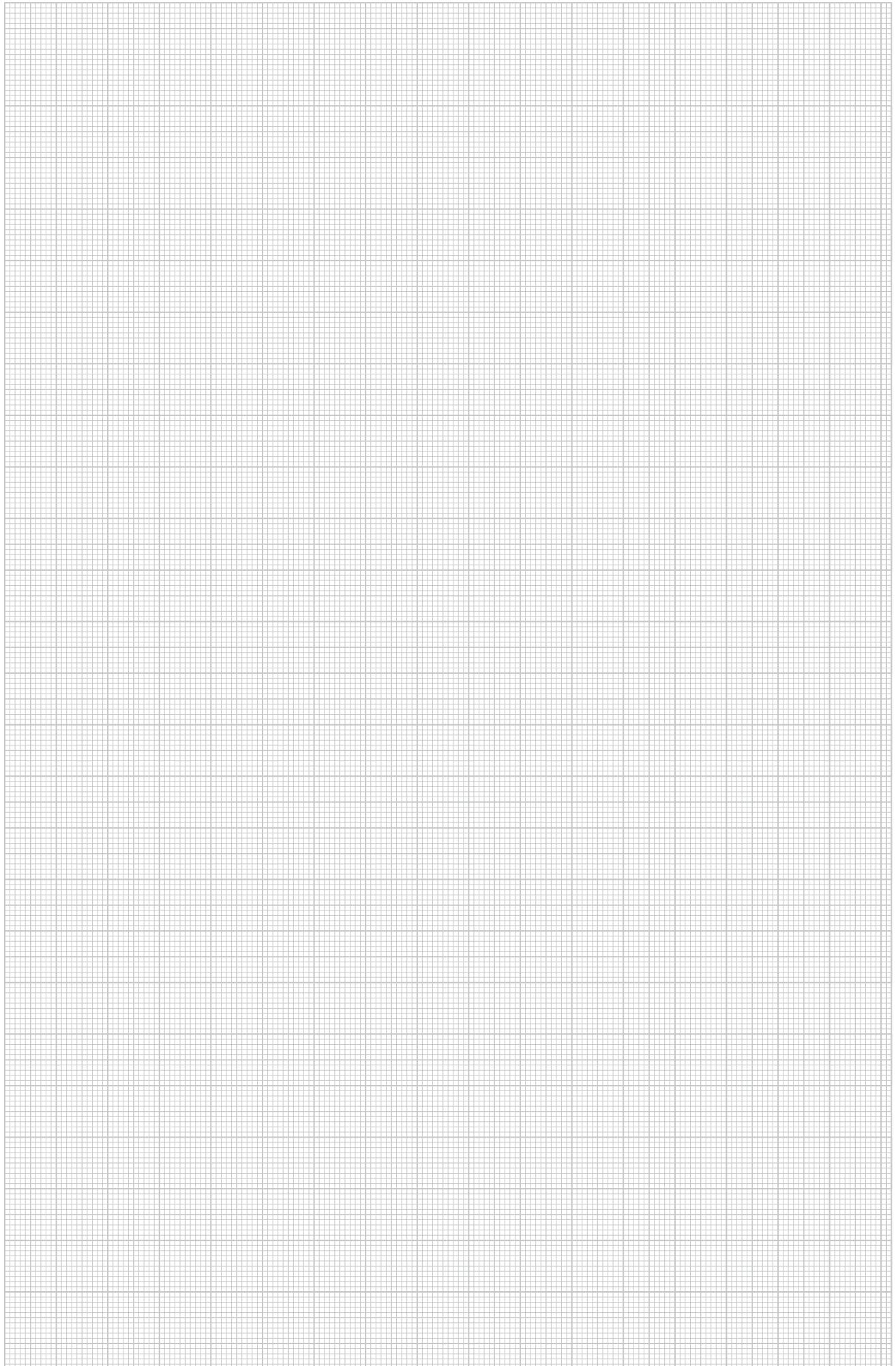
Directories

Directories

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Test marks

	American Bureau of Shipping, USA		Underwriters Laboratories Inc., USA + CSA, Canada
	AENOR, Producto Certificado, Spain		Österreichischer Verband für Elektrotechnik, Austria
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland		INSTITUTO ITALIANO DEL MARCHO DI QUALITÀ, Italy
	Lightning current-tested		RINA 1861, Ship Classification, Certification and Services
	Lightning current-tested, Class H (100 kA)		Underwriters Laboratories Inc., USA
	CEBEC, Belgium		SEMKO An Inchcape Testing Services Company, Sweden
	Canadian Standards Association, Canada		Eidgenössisches Starkstrominspektorat, Switzerland
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark		South African Bureau of Standards
	Deutsches Institut für Bautechnik Berlin, Germany		Shock-tested, Bundesamt für Zivilschutz, Germany
	Det Norske Veritas		Sähkötarkastuskeskus Elinspektilonscentralen Electrical Inspectorate, Finland
	ENEC Austria		Underwriters Laboratories Inc., USA
	ATEX certificate for explosive areas		Underwriters Laboratories Inc., USA
	ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV, Czech Republic		Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	FIMKO, Finland		German Association of Electricians, tested safety
	Forschungs- und Materialprüfungsanstalt, Germany		5-year warranty
	Russia, GOST The State Committee for Standards		
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany		
	Halogen-free; without chlorine, fluorine and bromine		
	INMETRO, Brazil		
	KEMA-KEUR, Netherlands		
	Indication of metric products		
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary		
	NEMKO, Norway		
	AFNOR Quality symbol of the French standardisation institute		



Pictogram explanation

Surfaces

	Strip galvanised
	Strip galvanised/plastic-coated
	Strip galvanised zinc/aluminium, double dip
	Bright
	Bright, reworked
	Anodised
	Hot-dip galvanised
	Electrogalvanised
	Electrogalvanised/plastic-coated
	Electrogalvanised, yellow-chromated
	Electrogalvanised, yellow passivated
	Electrogalvanised, transparently passivated
	Primed
	Painted
	Welding primed
	Hot-dip galvanised
	Hot-dip galvanised 85 µm
	Copper-plated
	Nickel-plated
	Galvanised, Deltatone 500
	Galvanised, MAGNI 565
	Zinc-aluminium coated, Galfan
	Zinc scale

Conformity symbol

	Communautés Européennes, EC declaration of conformity according to EC directives
	RoHS-conformant

Quality marks

	Halogen-free; without chlorine, fluorine and bromine
	Flame resistant 650 °C
	Flame resistant 750 °C
	Flame resistant 960 °C
	UV-resistant

Specific product symbols

	Diameter 60 mm
	Diameter 68 mm
	Protection device to DIN EN 61643-11 or IEC 61643-11
	Transition from LPZ 2 to LPZ 3
	Acoustic signalling

Applications

	Remote signalling
	Acoustic signalling
	Integrated Service Digital Network, ISDN applications
	Digital Subscriber Line, DSL applications
	Analogue telecommunication
	Category 5 TwisterPair
	Channel Performance to American EIA/TIA standard
	Measuring, controlling and regulating systems
	TV applications
	SAT-TV applications
	MultiBase base
	LifeControl
	Intrinsically safe protection device for potentially explosive areas
	Channel Performance to ISO/IEC 11801
	Power over Ethernet
	230/400 V system
	Protection rating IP 54
	Protection rating IP 65

Lightning protection classes

	Protection device to DIN EN 61643-11 or IEC 61643-11
	Combination protection device made of type 1 and type 2
	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection classes

Type 2+3	Protection device to DIN EN 61643-11 or IEC 61643-11
Type 3	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection zone

LPZ 0→1	Transition from LPZ 0 to LPZ 1
LPZ 0→2	Transition from LPZ 0 to LPZ 2
LPZ 0→3	Transition from LPZ 0 to LPZ 3
LPZ 1→2	Transition from LPZ 1 to LPZ 2
LPZ 1→3	Transition from LPZ 1 to LPZ 3
LPZ 2→3	Transition from LPZ 2 to LPZ 3

BSS maintenance of electrical function installation

	Fire-tested systems
	Escape route ceiling mounting with pressure clip
	OBO Grip, wall routing type
	OBO Grip, ceiling routing type
	Pressure clip for maintenance of electrical function, ceiling mounting

BSS anchor

	Fire protection anchor
	Fire protection bolt tie

BSS test marks/material class

	Maintenance of electrical function class E30
	Maintenance of electrical function class E90

Clamp clip base shapes

	Clamp clip for C profile rail, slot width 11–12 mm
	Clamp clip for C profile rail, slot width 16–17 mm
	Clamp clip for C profile rail, slot width 18–22 mm

Diameter

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

Entries

	4 cable entries
	6 cable entries
	7 cable entries
	8 cable entries
	9 cable entries
	10 cable entries
	12 cable entries
	10 cable entries ECO
	12 cable entries ECO
	14 cable entries ECO
	16 cable entries
	18 cable entries ECO
	24 cable entries

Gland thread

	Thread metric
	Thread Pg

Entry size

	M20 entry
	M25 entry
	M32 entry
	M40 entry

KTS side heights

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

Materials

	Flat steel
	Angular steel
	U steel
	Round material

Pictogram explanation

Nominal cross-section

 1,5 mm ²	Nominal cross-section 1.5 mm ²
 1,5-2,5 mm ²	Nominal cross-section 1.5–2.5 mm ²
 2,5 mm ²	Nominal cross-section 2.5 mm ²
 2,5-4 mm ²	Nominal cross-section 2.5–4 mm ²
 4 mm ²	Nominal cross-section 4 mm ²
 4-6 mm ²	Nominal cross-section 4–6 mm ²
 6 mm ²	Nominal cross-section 6 mm ²
 10 mm ²	Nominal cross-section 10 mm ²
 16 mm ²	Nominal cross-section 16 mm ²

Nominal voltage

 400 V	Nominal voltage 400 V
 500 V	Nominal voltage 500 V
 660 V	Nominal voltage 660 V

Polarity

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

Slot widths

 7,5	Slot width 7.5 mm
 11	Slot width 11 mm
 11-12	Slot width 11–12 mm
 12	Slot width 12 mm
 15	Slot width 15 mm
 16	Slot width 16 mm
 16,5	Slot width 16.5 mm
 16-17	Slot width 16–17 mm
 17	Slot width 17 mm
 18	Slot width 18 mm
 22	Slot width 22 mm
 35	Slot width 35 mm

Screw heads

 	Philips screw Torx screw
 	Phillips screw Pozidriv

Firing devices

 	Bolt-firing tool Nail device
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Protection rating

 	Protection rating IP 20 Protection rating IP 30
 	Protection rating IP 31 Protection rating IP 44
 	Protection rating IP 54 Protection rating IP 55
 	Protection rating IP 65 Protection rating IP 66
 	Protection rating IP 67 Protection rating IP 68

Metals

 	Aluminium Aluminium/steel
 	Stainless steel, rustproof Stainless steel, rustproof
 	Copper Brass
 	Steel Malleable iron
 	Die-cast zinc Plastics

Plastics

 	Acrylonitrile butadiene styrene Duroplast, Aminoplast, type 131.5
 	Duroplast, melamine resin, type 150 Ethylene vinyl acetate

Plastics

 FA	Fibre-proof material DIN 28091
 GFK	Fibreglass-reinforced plastic
 NBR SBR	Rubber mixture
 NBR	Nitrile rubber
 PETR	Petrolatum
 PA	Polyamide
 PA/ GF	Polyamide, fibre-glass reinforced
 PBPT	Polybutylene terephthalate
 PC	Polycarbonate
 PE	Polyethylene
 PP	Polypropylene
 PP/GF	Polypropylene, fibre-glass reinforced
 PS	Polystyrene
 PVC	Polyvinylchloride
 ZELL PE	Cellular polyethylene

Numeric directory

Directories

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	/100 pc.			/100 pc.			/100 pc.			/100 pc.			/100 pc.		
5000792	1003038	272	5015376	1015214	277	6489855	1147206	334	5063193	1156098	284	5072799	1175165	285	
5000853	1003046	272	5015437	1015303	277	6489862	1147210	334	5063254	1156101	284	5072850	1175211	285	
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5000976	1003062	272	5015550	1015427	277	6489886	1147218	334	5063377	1156136	284	5072973	1175343	285	
5001034	1003070	272	5015611	1015486	277	6489930	1147306	334	5063438	1156144	284	5073031	1175408	285	
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5001157	1003097	272	5567738	1015496	277	6489954	1147314	334	5063551	1156160	284	5073154	1175521	285	
5001218	1003100	272	5567790	1015498	277	6489961	1147318	334				5073215	1175580	285	
5001270	1003119	272	5567851	1015500	277				5498254	1158007	285	5073277	1175645	285	
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5001515	1003194	272	5016335	1018086	276	6488919	1148068	327	5498490	1158058	285	5073512	1175904	285	
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5001690	1003232	272	5016519	1018116	276	6488940	1148080	328	5498674	1158082	285	6636150	1198016	289	
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6600038	1362756	268	6856558	2003723	173	5441212	2007436	136	5860938	2022764	203	5446958	2024748	214	
6600045	1362758	268	6863815	2003725	173	5682189	2007440	136	5860945	2022766	203	5447016	2024756	214	
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6600076	1362768	268	6715862	2003732	174	5985822	2007710	140	5860976	2022772	203	5447191	2024780	214	
6600083	1362772	268	6863808	2003737	185	5985860	2007712	140	5860983	2022774	203	5447252	2024799	214	
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6600144	1362804	271	6700813	2003746	180	5985907	2007732	142	5533719	2022868	201	6563289	2024912	211	
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6608904	1362984	270	6863976	2003823	184	6465682	2008808	111	5896739	2022902	205	6536795	2024950	212	
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5139393	1473220	341				/pc.			5004301	2022957	206	6536931	2024988	213	
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5140054	1475266	341	6577446	2005020	151	6030811	2011312	165	5004509	2022976	207	5035411	2028875	248	
5140115	1475622	341	6577443	2005024	152	6030835	2011320	165	5004547	2022978	207	5035473	2028877	248	
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			6577477	2005054	149	6622610	2011381	166	5812203	2022993	208	5167112	2029111	240	
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			6577507	2005066	151	6622665	2011389	166	5812265	2022998	208	5167235	2029162	240	
5917069	2000001	125	6577545	2005070	151	6622672	2011392	166	6474417	2023040	204	5167297	2029219	240	
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5313090	2000075	125	6580491	2005118	150	5246909	2011506	244	6474479	2023048	204	5167532	2029480	240	
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5152170	2000342	126	6580514	2005126	151	5246930	2011530	244	5839544	2024292	216	5389941	2029514	249	
5917090	2000378 </td														

Numeric directory

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5036319	/100 pc. 2029693	240	5170716	2033429	232	5781486	2046536	22	6387724	2046795	30	5182597	2048132	247
5036371	2029696	240	5170778	2033488	232	5781493	2046537	22	6387755	2046796	30	5182658	2048167	247
5374299	2030004	239	6595723	2034680	230	5781509	2046538	22	6387762	2046797	30	5182719	2048221	247
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5481515	2032380	244	5926306	2046057	33	5924258	2046771	33	5957812	2047590	38	6334629	2054450	189
5481577	2032382	244	5926313	2046058	33	5924272	2046772	33	5957829					

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5187813	2082594	228	5471370	2088754	238	5897712	2091685	248	6869794	2154056	27	6417247	2331884	338	
5187875	2082616	228	5471554	2088762	238	5196570	2124149	278	6869800	2154058	27	6417254	2331886	338	
	5471615		2088770		238				6869817	2154062	27	6417279	2331890	338	
5481331	2083612	229	5471677	2088789	238	5595359	2146053	258	6869855	2154066	27	6417285	2331892	338	
5481393	2083620	229	5192190	2088819	239	5595410	2146061	258	6869862	2154068	27	6417292	2331910	338	
5481874	2083639	229	5192251	2088827	239	5595472	2146096	258	6870066	2154081	34	6417308	2331912	338	
5481997	2083647	229	5192312	2088835	239	5595533	2146118	258	6870080	2154083	34	6417315	2331916	338	
5482055	2083655	229	5192374	2088843	239	5595533	2146134	258	6870097	2154085	34	6417346	2331918	338	
5482116	2083663	229	5192435	2088851	239	5595656	2146134	258	6870103	2154087	34	6417339	2331922	338	
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6201853	6407536	323
6201914	6407560	323
6201976	6407579	323
6479535	6408478	325
6202157	6408516	324
6479955	6408702	331
6480012	6408710	331
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6480135	6408737	331
6623952	6408958	333
6078493	6408962	333
6078554	6408966	333
6202218	6410081	335
6202270	6410103	335
6202331	6410111	335
6043569	6410154	335
6043682	6410162	335
6348794	6418244	324
6822133	6418248	325
6437474	6418250	324
6518470	6418252	324
5911166	6418255	325
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6028290	7205669	162
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6280568	7205677	163
6280582	7205679	163
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6812202	7205772	160
6820238	7205780	161
6820245	7205782	161
6820252	7205784	161
6820269	7205786	161

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