



Industrial installations

Fastening systems



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 protec-
tive 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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Anchors and fastening systems

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Installation and fastening clips

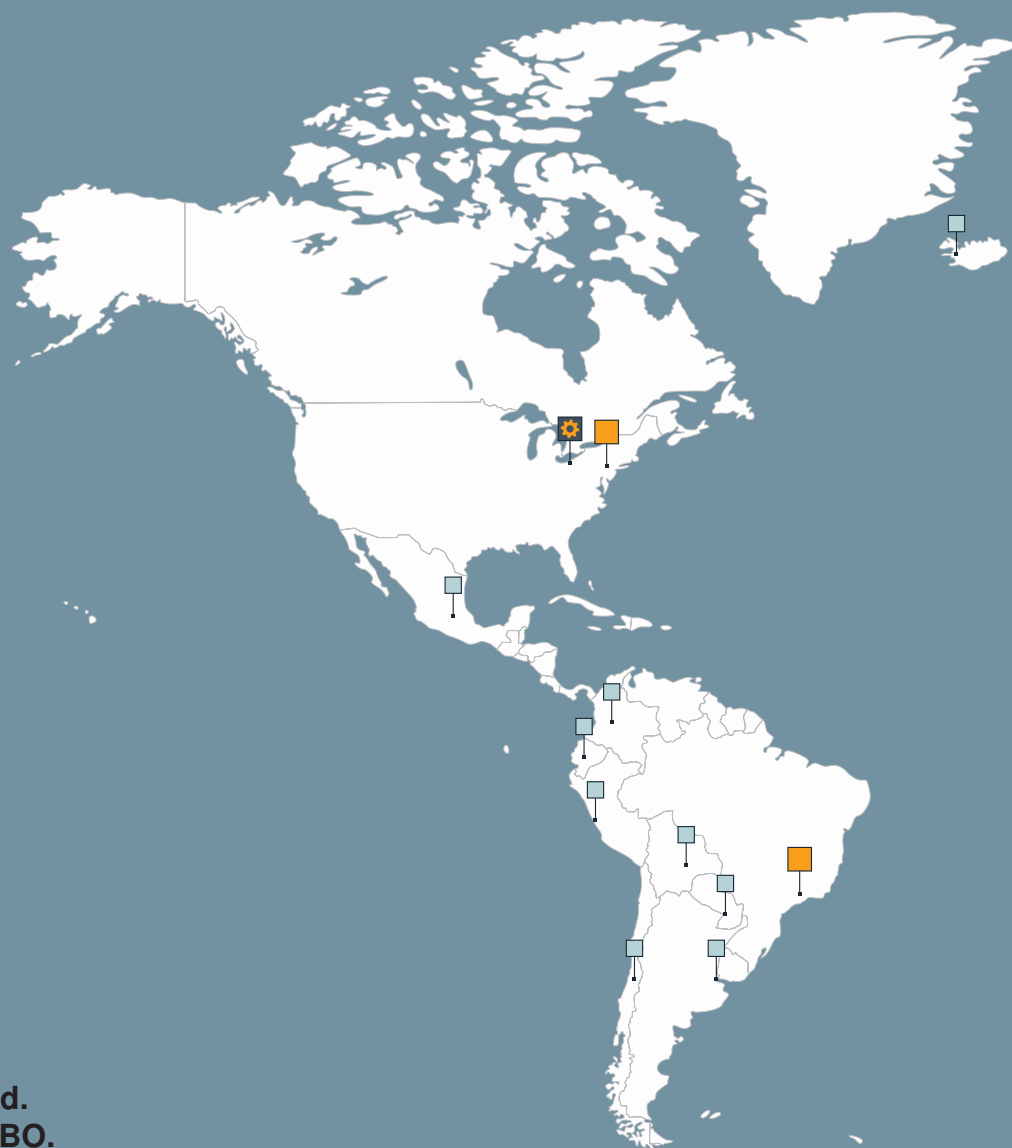
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Directories

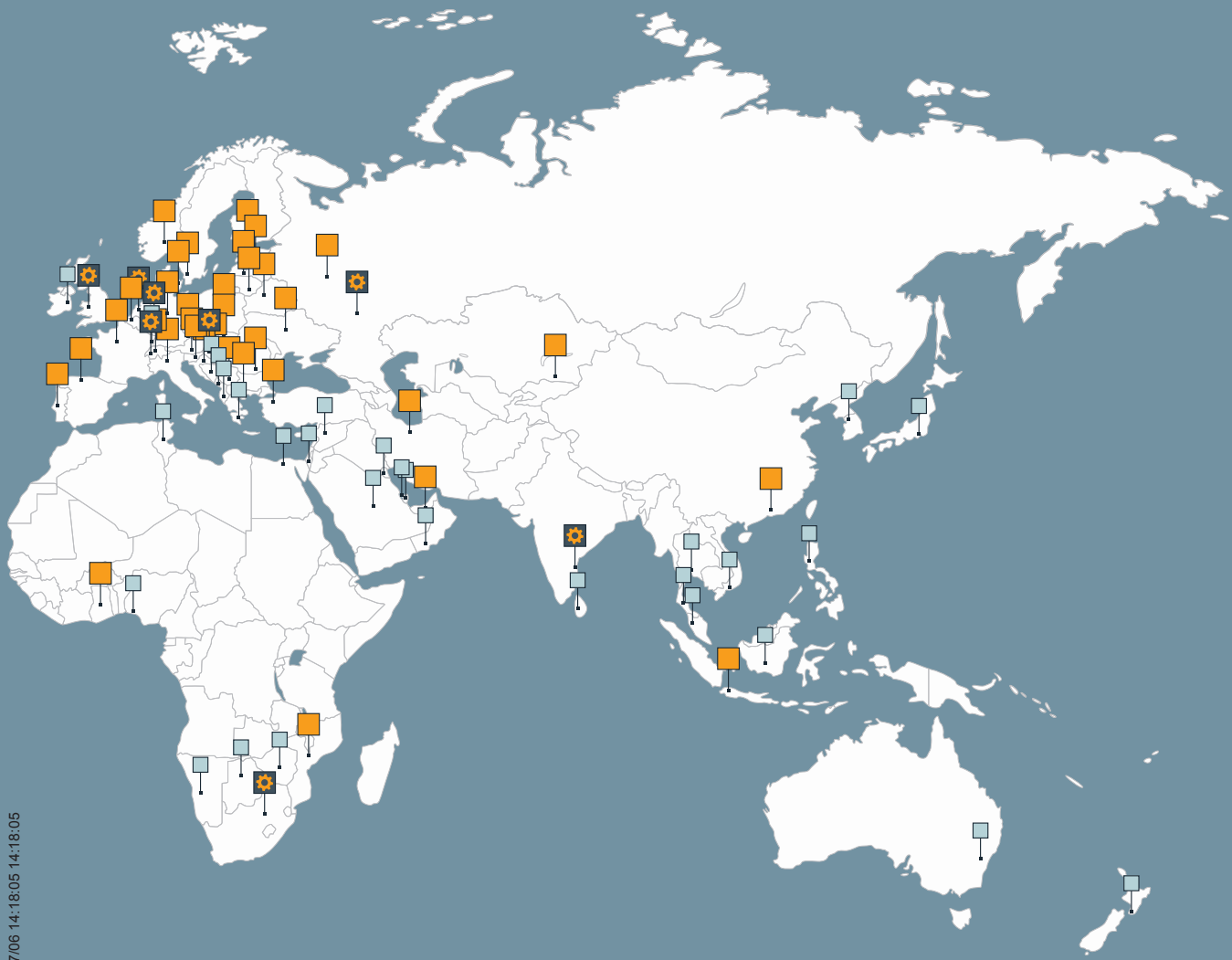
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Welcome world. Welcome to OBO.

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

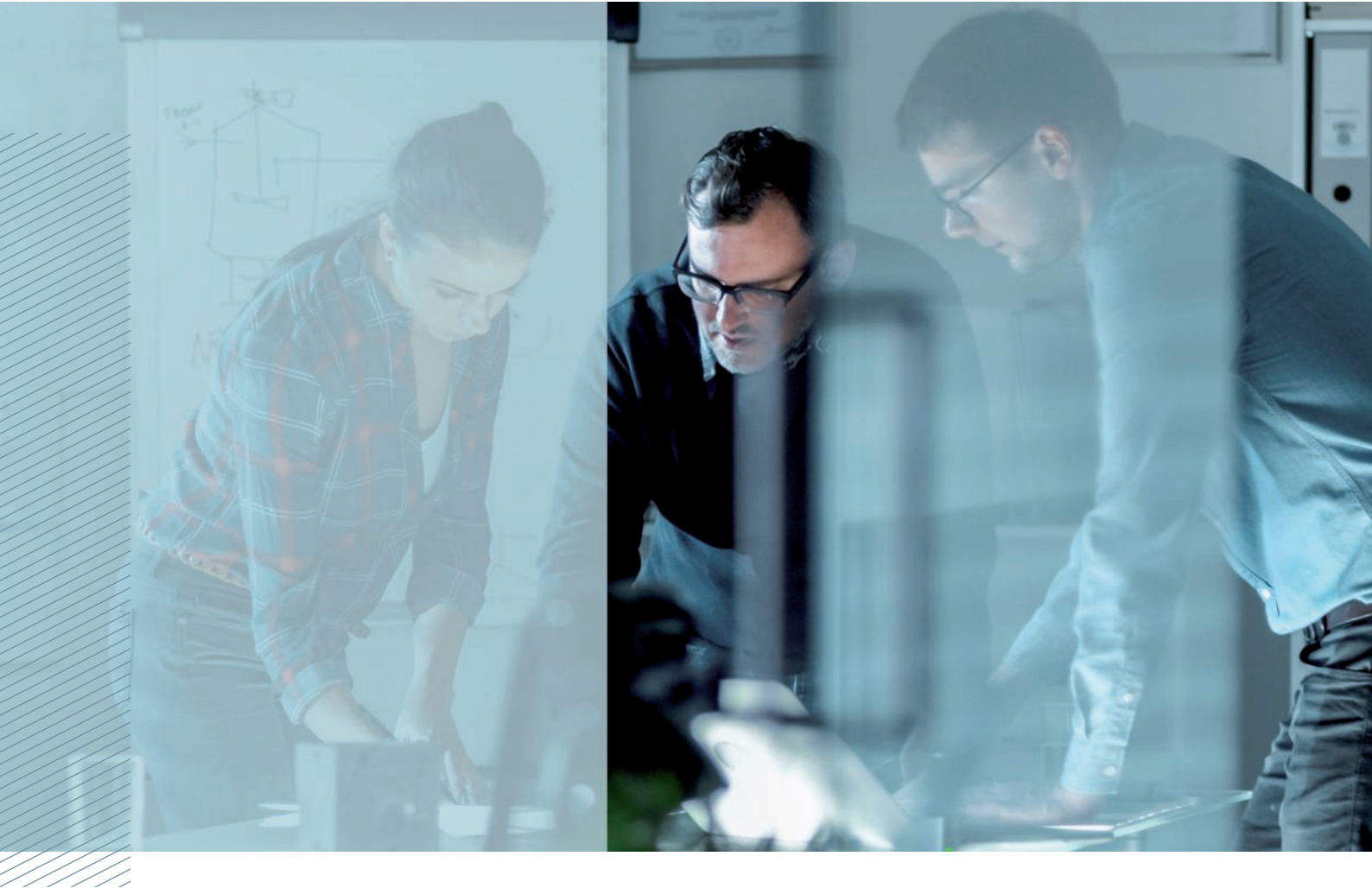


Subsidiary



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 all 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.

You can contact our Customer Service department on:

+49 2373 89 1700

Monday–Thursday
07.30–17.00

Friday
07.30–15.00

export@obo.de



Service



Training



Handling



Certification

Service – OBO can help

Everywhere and in every project phase:

- 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

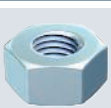
OBO offers safety. Our products fulfil the most important country-specific regulations:

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

Anchors and fastening systems



Anchors and fastening systems

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Angler spreading anchors

Angler spreading anchor

PA

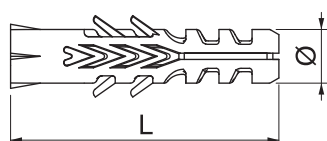


Type	Dowel Ø mm	Dim. L mm	Wood screws Ø mm	Pull- out value N	Pack Piece	Weight kg/100 pc.	Item no.
910 F 5x25	5	25	2,54	—	100	0.042	2349480
910 F 6x30	—	30	3,55	—	100	0.075	2349482
910 F 8x40	—	40	4,56	—	100	0.132	2349484
910 F 10x50	—	50	6-8	—	50	0.225	2349486
910 F 12x60	—	60	8-10	—	25	0.380	2349488

Required minimum screw length = anchor length + component thickness + 1 x screw Ø.

Withdrawal force applies to wood screws of the largest screw diameter, required safety values must be taken into account.

Dimensions

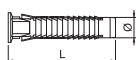


Type	Concrete Frat N	Full brick Mz12 Frat N	Solid calcareous sandstone KSL12 Frat N	Porous concrete P2 Frat N	Porous concrete P4 Frat N	Hollow brick Hlz12 Frat N
910 F 5x25	230	240	330	40	40	90
910 F 6x30	310	380	370	50	60	120
910 F 8x40	340	460	430	70	70	130
910 F 10x50	770	790	780	100	100	220
910 F 12x60	1550	1570	1900	150	160	300

Multipurpose anchors

Universal anchor

PE



Type	Item no.
910 FX 5x25	2347580
910 FX 6x30	2347582
910 FX 8x40	2347584
910 FX 10x50	2347586
910 FX 12x60	2347588

Also suitable as a cavity anchor, with collars to prevent slipping. 3 tabs take up the torque.

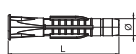
Required minimum bolt length = anchor length + component thickness + 1 x bolt Ø.

Withdrawal force applies to wood screws of the largest bolt diameter in concrete of class B25.

Our safety value recommendation: 5x

All-purpose anchor

PA



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	4-5	100	0.063	2348122
910 AZK 8x51	8	51	5-6	100	0.106	2348124
910 AZK 10x61	10	61	7-8	50	0.260	2348126
910 AZK 12x71	12	71	8-10	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

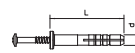
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Type	Dowel Ø mm	Length mm	Pull-out force N min/concrete	Pack Piece	Weight kg/100 pc.	Item no.
910 SD 5X35	5	35	220	100	0.360	2351021
910 SD 6X35	6	35	260	100	0.310	2351056
910 SD 6X40	6	40	260	100	0.555	2351064
910 SD 8X55	8	55	350	50	1.070	2351099

Knock-in anchor: steel, electrogalvanised and transparently passivated.

Knock-in anchor



PA



Type	Pack Piece	Weight kg/100 pc.	Item no.
910 SD-Q 6x40	100	0.480	2351218

Knock-in anchor for Quick clips type 2955.

Knock-in anchor: steel, tempered, electrogalvanised and transparently passivated.

Knock-in anchor



PA



Type	Dowel Ø mm	Length mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
910 SDM M6	6	40	1200	100	0.480	2350807

With M6 thread.

Knock-in anchor: steel, tempered, electrogalvanised and transparently passivated.

Knock-in anchor



Insulation anchors

PA



Type	Length mm	Dowel Ø mm	Wood screws Ø mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
Thermo 60	63.5	9	4-5	0.05	10	0.658	2347601

Thermo insulation anchor for universal lightweight fastening in plastered heat composite systems. The self-tapping point makes pre-drilling almost superfluous.

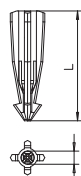
Insulation plug



Gas concrete anchors

Gas concrete anchor

PA



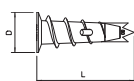
Type	Dim. D mm	Dim. L mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
910 GD 6x35	6	35	Light grey	100	0.094	2347229
910 GD 8x50	8	50	Light grey	50	0.263	2347261

The anchor can be knocked directly into the porous concrete (gas concrete resistance class G2). With a resistance class of G4 or greater, a 5 or 6 mm hole should be pre-drilled.
Screw length: Component thickness + 40 mm (6 mm) / 55 mm (8 mm).

Plasterboard anchors

Plasterboard anchor

Zn

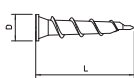


Type	Dim. D mm	Dim. L mm	Perm. load range, tension zone kN	Pack Piece	Weight kg/100 pc.	Item no.
910 GKDM 12x30	12	30	0.04	100	0.400	3483214

To fasten components to plasterboard or fibre composite plates.
Minimum plate thickness: 12 mm.
For Ø 4.5 Golden Sprint or Sprint screws.

Plasterboard anchor

Zn



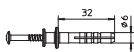
Type	Dim. D mm	Dim. L mm	Perm. load range, tension zone kN	Pack Piece	Weight kg/100 pc.	Item no.
910 GKSM 6x25	7.5	26.4	0.04	100	0.160	3483239

To fasten components to plasterboard or fibre composite plates.
Min. plate thickness: 5 mm.

Double-flange anchors

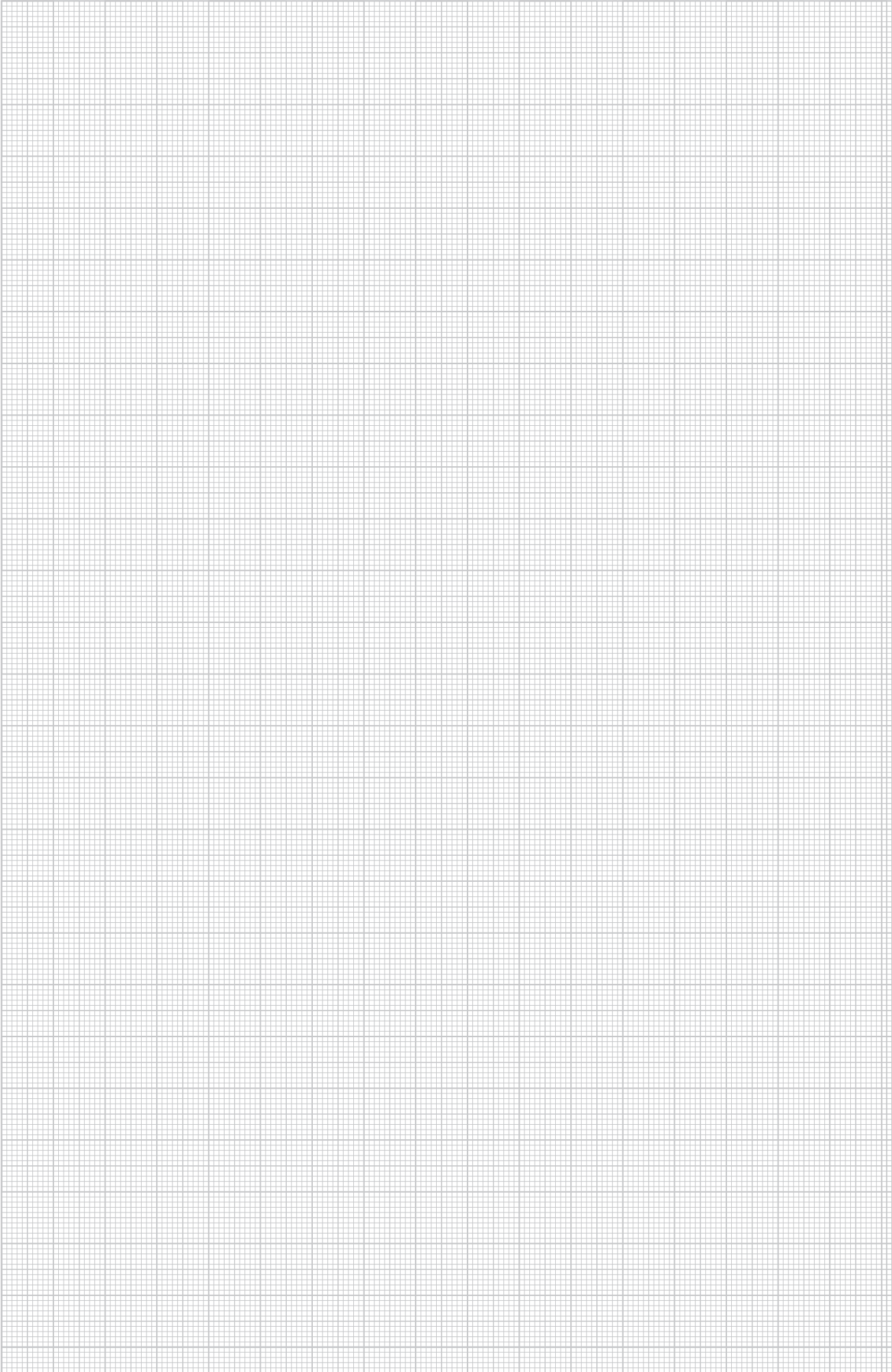
Double-flange anchor

PA

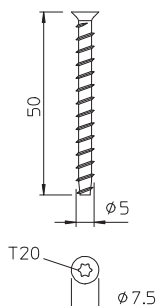


Type	Dowel Ø mm	Length mm	Drill hole depth mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
910 DF 6x35	6	35	40	1200	100	0.425	2347407

Knock-in anchor: steel, tempered, electrogalvanised and transparently passivated.



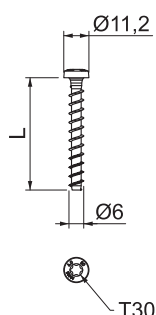
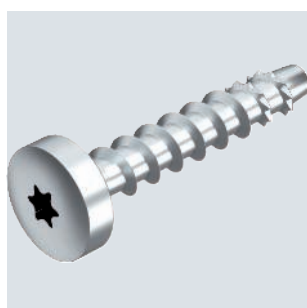
MMS-plus KS countersunk head tie, for cable clip



Type	Dimension 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.

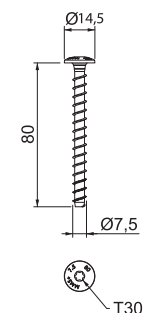
MMS-plus P round head tie, with panhead



Type	Dimension mm	Screw system	Anchor length mm	Drill hole Ø mm	Head Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
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	Dimension 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

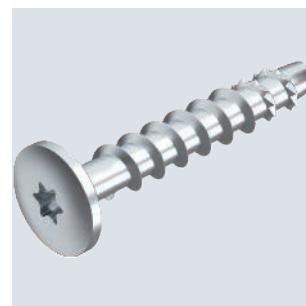
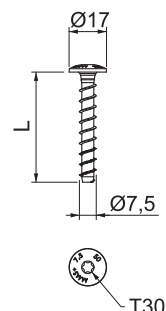
Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With round head for universal fastenings. Torx drive T30. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities 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

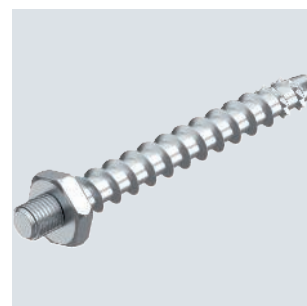
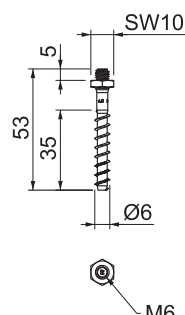
Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With large round head to fasten mounting and profile rails. Torx drive T30. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



MMS-plus ST push-in tie, with connection thread

Type	Dimen- sion mm	Drill hole Ø mm	SW Thread mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ ST 6x55	6x55	5	M6	10	100	1.030
						3498264

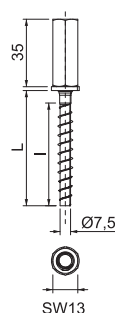
Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. M6 connection thread for fastening clips with threaded foot. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing 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	Drill hole 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

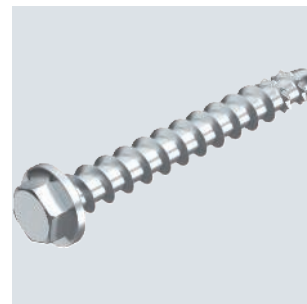
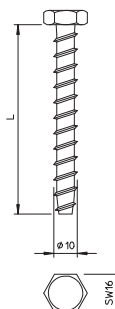
Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With M8/M10 combination thread sleeve for fastening threaded rods. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



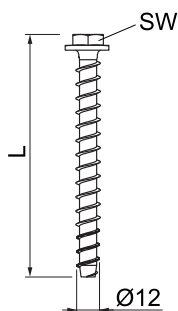
MMS-plus SS hexagonal tie, with pressed washer

Type	Dimen- sion mm	Dim. L mm	Drill hole Ø mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ SS 10x80	10x80	80	8	13	25	4.000	3498124
MMS+ SS 10x100	10x100	100	8	13	25	4.800	3498159

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets. Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.



MMS-plus hexagonal tie, with pressed washer

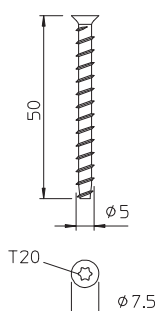


Type	Dimension mm	Dim. L mm	Drill hole Ø mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ SS 12x100	12x100	100	10	15	25	7.800	3498170
MMS+ SS 12x120	12x120	120	10	15	25	8.900	3498172

Stainless steel screw-in anchor for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With hex head drive and pressed washer to accept large loads. Suitable for fastening suspended loads from suspended supports and wall brackets in wet rooms and in outdoor areas.

Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

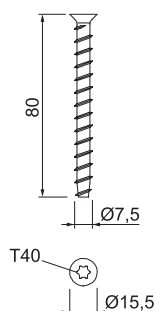
MMS-plus KS countersunk head tie, for cable clip



Type	Dimension 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 F countersunk head tie



Type	Dimension mm	Drill hole Ø mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
MMS+ F 7.5x80	7,5x80	6	15.5	Torx	50	2.000	3498160

Bolt tie for direct mounting without additional anchors in cracked and uncracked concrete and masonry. With countersunk head for universal fastenings. Torx drive T40.

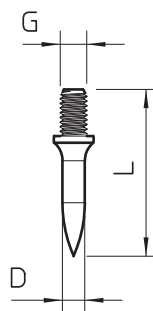
Construction product tested according to EAD and CE mark, with European Technical Assessment (ETA) and proof of suitability. Load-bearing capacities under fire loads proven up to fire resistance class R120.

St G

OBO anchor

Type	Shank length mm	Dim. L mm	Dim. D Ø mm	Dim. G mm	Pack Piece	Weight kg/100 pc.	Item no.
903 15 G	15	23	4	M6	100	0.330	3100154
903 18 G	18	26	4	M6	100	0.360	3100189
903 25 G	25	33	4	M6	100	0.404	3100251
903 30 G	30	38	4	M6	100	0.470	3100308
903 40 G	40	48	4	M6	100	0.571	3100405

Hardened steel, electrogalvanised with M6 x 8 mm thread.

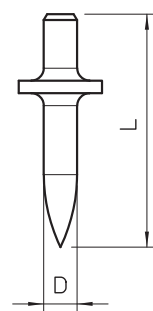


St

OBO anchor

Type	Shank length mm	Dim. L mm	Dim. D Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
903 RB 15	15	21	4	200	0.295	3105016
903 RB 18	18	24	4	200	0.348	3105024
903 RB 22	22	30	4	200	0.325	3105032

Hardened steel, shiny without thread.



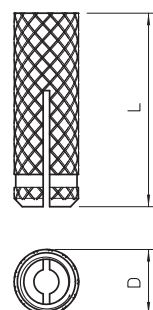
Anchors, light-duty fastening

CuZn 37

Brass spreading anchor

Type	Thread	Drill hole depth mm	Length mm	Drill hole Ø mm	Pull-out value N	Pack Piece	Weight kg/100 pc.	Item no.
865 M6x24	M6	32	24	8	6000	100	0.442	3483061
865 M8x30	M8	41	30	11	7000	100	0.867	3483088
865 M10x34	M10	53	34	12	9000	100	1.315	3483096

Areas of application: full brick, concrete, wood. Ideally suited for areas exposed to high temperatures.

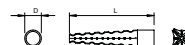


St GTP

Metal spreading anchor

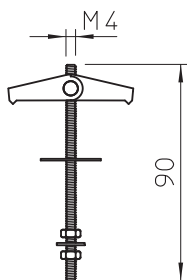
Type	Dim. D mm	Dim. L mm	Drill hole Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
MD 5 GTP	5	30	5-7	200	0.190	3484602
MD 6 GTP	6	32	7-9	100	0.250	3484629

Areas of application: gas concrete, lightweight concrete, Poroton, pumice, plaster, hollow brick and full brick. Can be knocked into porous concrete (gas concrete) of low resistance without drilling. Superbly suited for areas subjected to high temperatures.



Sprung hinged anchor

St G

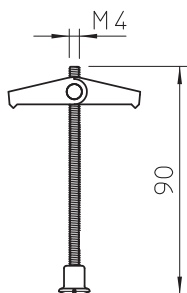


Type	Thread	Length mm	Drill hole Ø mm	Minimum cavity depth mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
450 M4x95 G	M4	95	14	35	0.2	50	1.750	3481611

With threaded rod, washer and hexagonal nut; brass axle.

Sprung hinged anchor

St G

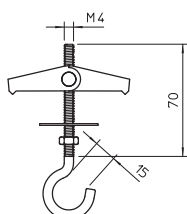


Type	Thread	Length mm	Drill hole Ø mm	Minimum cavity depth mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
451 M4x95 G	M4	95	14	35	0.2	50	1.700	3481662

With threaded rod and slotted brass nut; brass axle.

Sprung hinged anchor

St G

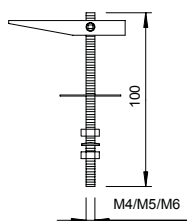


Type	Thread	Length mm	Drill hole Ø mm	Minimum cavity depth mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
452 M4x70 G	M4	70	14	35	0.4	50	1.950	3481778

With ceiling hook, washer and hexagonal nut; brass axle.

Tilting anchor

St G



Type	Thread	Length mm	Drill hole Ø mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
458 M4x100 G	M4	100	13	0.5	50	3.310	3482154
456 M5x100 G	M5	100	13	0.8	50	3.810	3482103
453 M6x100 G	M6	100	16	1.3	50	5.250	3482014

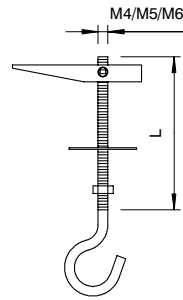
Two washers and two hexagonal nuts, with threaded shank.

St G

Tilting anchor

Type	Thread	Dim. L mm	Drill hole Ø mm	Hook-Ø mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
457 M4x55 G	M4	55	13	14	0.25	50	3.250	3482138
455 M5x65 G	M5	65	13	16	0.4	50	3.850	3482057
455 M5x100 G	M5	100	13	16	0.4	50	4.250	3482073
454 M6x100 G	M6	100	16	16	0.8	25	6.000	3482030

One washer and one hexagonal nut, with ceiling hook.
Note: Reckon with 5x safety for luminaire suspensions.

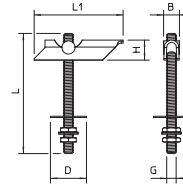


St G

Tilting anchor

Type	Thread	Dim. L mm	Drill hole Ø mm	Break load kN	Minimum cavity depth mm	Pack Piece	Weight kg/100 pc.	Item no.
KD 8 100	M8	100	22	2.4	75	25	11.200	3482707
KD 10 100	M10	100	25	2.4	75	25	11.200	3482758

Including nut and large washer.
The universal heavy-duty fastening for stressed concrete, hollow steel profiles, metal sheets and plates.
Use: heating, ventilation and air conditioning technology, cooling systems, sprinkler systems, pipes, cable tracks, etc.
* Dependent on the thickness of the ceiling profile.



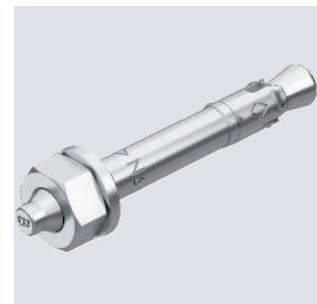
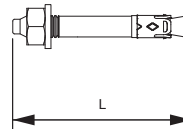
Anchors, heavy-duty fastening

St G

Nail anchor N with thread

Type	Thread	Drill hole Ø mm	Drill hole depth mm	Clamping range mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
N 6-5-10/49	M6	6	40	5-10	49	100	1.160	3498396

The nail anchor N can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting.
The nail tie only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail tie spreads itself and bolts itself in the drill hole.
European Technical Approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

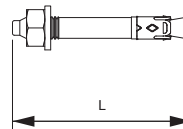


A4 2B

Nail anchor N with thread, V4A

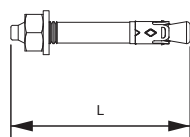
Type	Thread	Drill hole Ø mm	Drill hole depth mm	Fix- ture thick- ness mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
N 6-5/49 A4	M6	6	40	5	49	50	1.200	3498399

The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.
European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.



Nail anchor N with thread, A5

A5



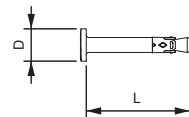
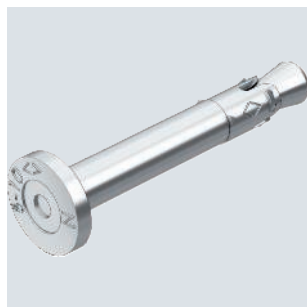
Type	Thread	Drill hole Ø mm	Drill hole depth mm	Fix- ture thick- ness mm	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
N 6-5/49 HCR	M6	6	40	5	49		50	1.200	3498398

The nail anchor N can be used for multiple fastenings of non-load-bearing systems in areas with highly corrosive impacts in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. It is not necessary to apply torque subsequently. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

Nail anchor N-K with nail head

St G



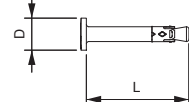
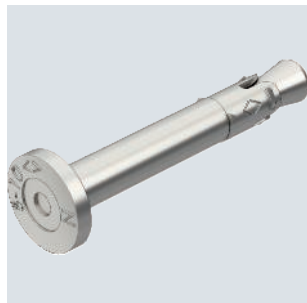
Type	Drill hole Ø mm	Drill hole depth mm	Clamping range mm	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
N-K 6-5-10/44	6	40	5-10	44	13	100	1.135	3498390

The nail anchor N-K can be used for multiple fastenings of non-load-bearing systems and in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European Technical Approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

Nail anchor N-K with nail head, V4A

A4 2B



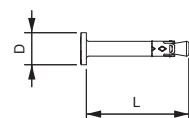
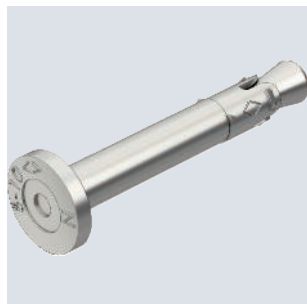
Type	Drill hole Ø mm	Drill hole depth mm	Fix- ture thick- ness mm	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
N-K 6-5/44 A4	6	40	5	44	13	50	1.100	3498393

The nail anchor N can be used for multiple fastenings of non-load-bearing systems, indoors and outdoors, in cracked and non-cracked concrete, thereby combining the benefits of a bolt tie with even easier mounting. The nail anchor only needs to be hammered into the drill hole. When the load occurs, the nail anchor spreads itself and bolts itself in the drill hole.

European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

Nail anchor N-K with nail head, A5

A5



Type	Drill hole Ø mm	Drill hole depth mm	Fix- ture thick- ness mm	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
N-K 6-5/44 HCR	6	40	5	44	13	50	1.135	3498392

The nail anchor N can be used for multiple fastenings of non-load-bearing systems in areas with highly corrosive impacts 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.

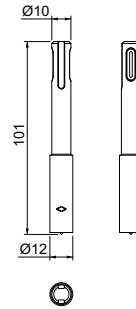
European technical approval ETA-11/0240, including characteristic values under fire exposure to fire resistance R 120.

St G

Type	Pack Piece	Weight kg/100 pc.	Item no.
N-K SWZ SDS	1	5.000	3498314

Setting tool for nail anchor, type N-K, with SDS plus seat.

Setting tool for nail anchor



St G

Type	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ 8-100-111/165	M8	165	25	5.700	3498341
BZ 10-75-95/155	M10	155	25	8.900	3498345
BZ10-100-120/180	M10	180	25	10.320	3498342
BZ 10-150/230	M10	230	25	13.600	3498344
BZ 12-15-35/110	M12	110	25	10.320	3498350
BZ 12-85-105/180	M12	180	25	14.900	3498354
BZ12-105-125/200	M12	200	25	16.400	3498356
BZ 12-160/255	M12	255	20	22.400	3498358
BZ 16-15-35/135	M16	135	20	21.600	3498360

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.



Bolt tie BZ

A4 2B

Type	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ12-15-35/110A4	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.



Bolt tie BZ

St G

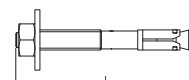
Type	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ-U 8-10-21/75	M8	75	50	3.460	3498320
BZ-U 8-30-41/95	M8	95	50	4.010	3498326
BZ-U 10-10-30/90	M10	90	50	6.720	3498334
BZ-U10-30-50/110	M10	110	25	7.900	3498340

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.

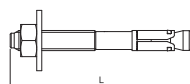


Bolt tie BZ-U



Bolt tie BZ-U

A4 2B



Type	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ-U8-10-21/75A4	M8	75	50	3.460	3498322
BZ-U8-30-41/95A4	M8	95	50	4.090	3498328
BZU10-10-30/90A4	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.

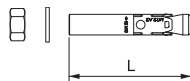
European Technical Approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.

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.

Bolt tie BZ-IG

St G



Type	Thread	Drill hole Ø mm	Drill hole depth mm	Dim. L mm	Perm. load range, tension zone kN	Pack Piece	Weight kg/100 pc.	Item no.
BZ-IG M 6-0	M6	8	60	50	2	20	1.830	3498370
BZ-IG M 8-0	M8	10	75	62	3.6	20	3.180	3498372
BZ-IG M 10-0	M10	12	90	70	4.8	20	5.550	3498374
BZ-IG M 12-0	M12	16	105	86	7.9	20	11.700	3498376

Bolt tie BZ-IG with internal thread 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. Undercutting the drill holes is not necessary.

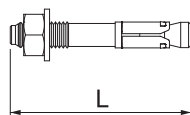
The fastening of the component is possible with hexagonal screws or with countersunk head screws as well as with a system of nut and washer and a standard threaded rod.

European technical approval ETA-99/0010, including characteristic values under fire exposure to fire resistance R 120.

Shock approval by the Federal Office for Civil Protection in Bern, Switzerland.

Bolt tie BZ s

St G



Type	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ 8-11/65 s	M8	65	100	2.600	3498410
BZ 10-10/70 s	M10	70	50	4.700	3498412
BZ 12-10/85 s	M12	85	25	8.100	3498414

Bolt tie BZ with reduced anchoring depth 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.

A5

Bolt tie BZ

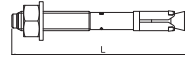
Type	Thread	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
BZ 8-10-21/75HCR	M8	75	100	3.080	3498516
BZ10-10-30/90HCR	M10	90	50	6.040	3498556

Bolt tie BZ for the anchoring of medium-duty to heavy-duty loads in areas with highly corrosive impacts, 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.



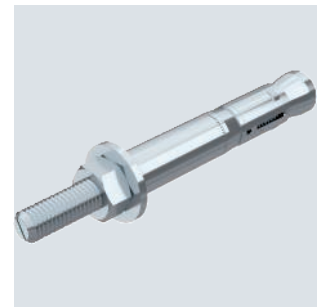
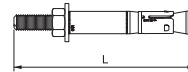
St G

High-load anchor SZ-B

Type	Thread	Drill hole Ø mm	Drill hole depth mm	Dim. L mm	Fix- ture thick- ness mm	Perm. load range, tension zone kN	Pack Piece	Weight kg/100 pc.	Item no.
SZ-B 18/0x142	M12	18	105	142	30	12.3	20	21.123	3498752

The high-load anchor SZ is a heavy-duty push-through anchor system with a threefold expanding special sleeve which facilitates very high approved loads with small axial spacings and edge distances. The plastic press ring secures the permanent tightening of the fastening piece against the ground.

Due to the special design with an elongated thread and a shortened anchor sleeve, this special version is not approved to the European technical norm ETA .



St G

DIBt U

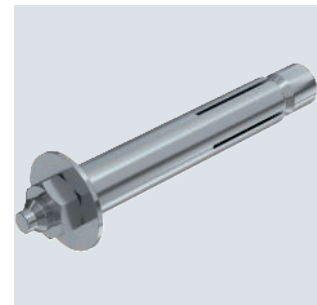
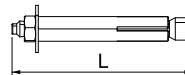
Porous concrete anchor with external thread

Type	Thread	Fix- ture thick- ness mm	Dim. L mm	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

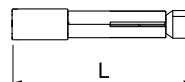
Porous concrete anchor with internal thread

Type	Thread	Dim. L mm	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.

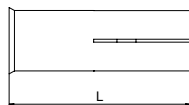
Version with internal thread. Suitable for fire loads of up to 120 minutes, please refer to the general construction approval for the load values (applies to porous concrete of resistance classes of min. 3.3).

A setting tool is required for mounting.



Impact tie, version with collar

St G

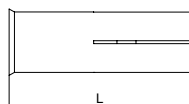


Type	Thread	Drill hole Ø mm	Drill hole depth mm	Dim. L mm	Perm. load range, tension zone kN	Pack Piece	Weight kg/100 pc.	Item no.
ES M 6x25	M6	8	25	25	1.7	100	0.600	3492018
ES M 8x25	M8	10	25	25	1.9	100	1.000	3492020
ES M 8x30	M8	10	30	30	1.7	100	1.100	3492023
ES M 10x25	M10	12	25	25	2.1	50	1.400	3492022
ES M 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.

Impact tie, version with collar

A4

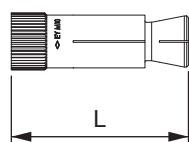


Type	Thread	Drill hole Ø mm	Drill hole depth mm	Dim. L mm	Perm. load range, tension zone kN	Pack Piece	Weight kg/100 pc.	Item no.
ES M 8x30 A4	M8	10	30	30	1.7	50	1.100	3492003
ES M 10x40 A4	M10	12	40	40	2	50	2.000	3492008
ES M 12x50 A4	M12	15	50	50	2.4	50	4.300	3492012

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.

Hollow core anchor Easy

St G



Type	Thread	Drill hole Ø mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
Easy M6	M6	10	40	50	1.000	3498768
Easy M8	M8	12	44	25	1.500	3498770
Easy M10	M10	16	53	25	3.320	3498774
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.

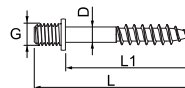
General type approval Z-21.1-1785 granted by the German Institute for civil engineering (DIBt), Berlin, including permissible loads when exposed to fire up to a fire resistance duration of 120 minutes.

St G

Screw-in anchor with M6 thread

Type	Dim. G mm	Dim. D mm	Dim. L1 mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
985 M6 25	M6	4.3	25	35	100	0.412	3133028
985 M6 35	M6	4.3	35	45	100	0.533	3133036

With wood screw shank and M6 thread.

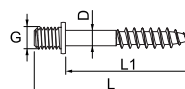


St G

Screw-in anchor with M8 thread

Type	Dim. G mm	Dim. D mm	Dim. L1 mm	Dim. L mm	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 $-10\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$ (concrete), ambient temperature after complete hardening $-40\text{ }^{\circ}\text{C}$ to $+120\text{ }^{\circ}\text{C}$ (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

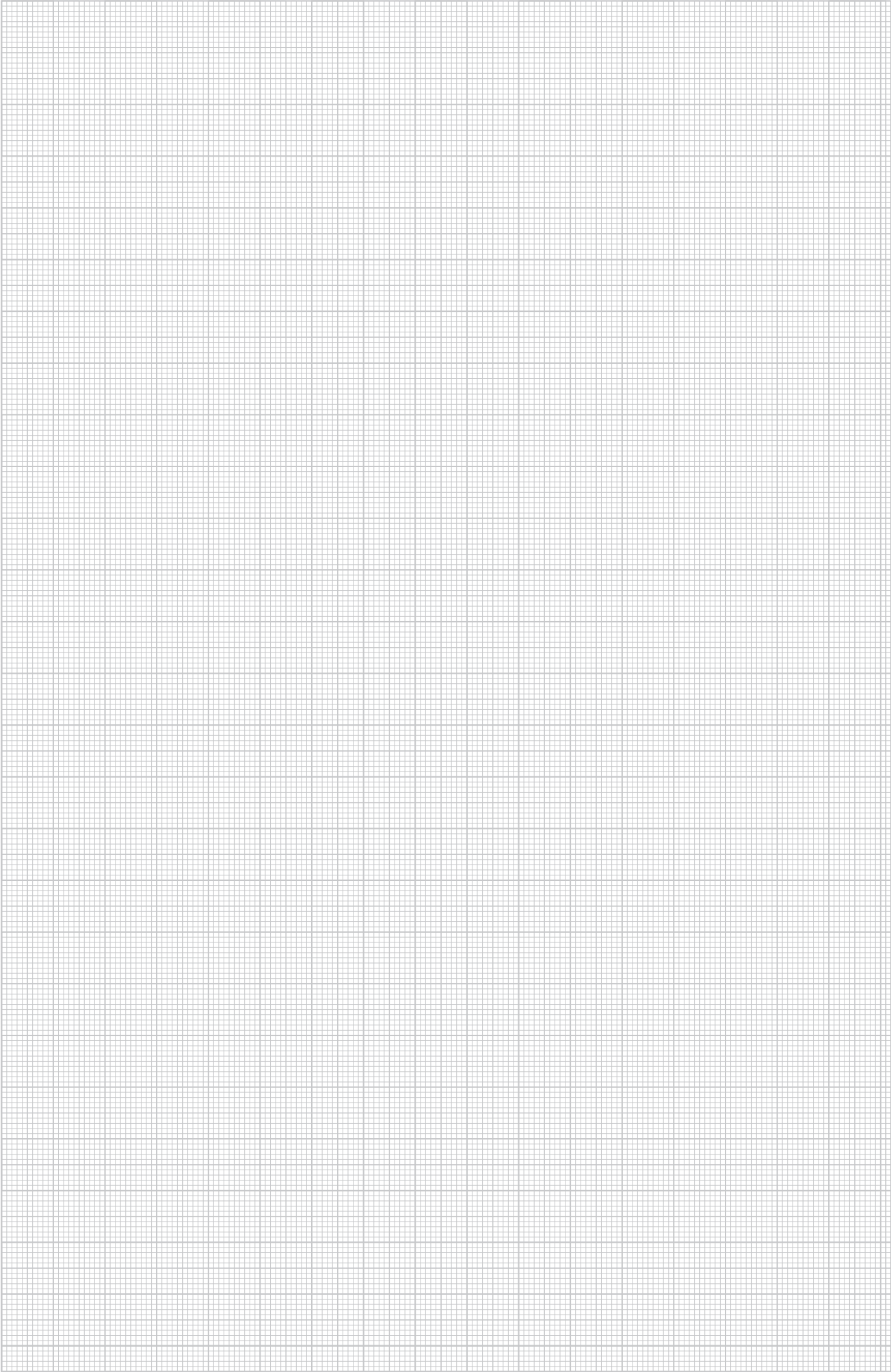


Type	Contents ml	Pack Piece	Weight kg/100 pc.	Item no.
VMU plus 420	420	1	83.000	3497803

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.

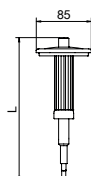
European Technical Assessment for cracked and uncracked concrete, as well as for masonry of full and hollow brick. Earthquake-proof in concrete according to Category C1. Fire protection approval for concrete and masonry with fire resistance classes up to 120 minutes.

Substrate temperature during processing $-10\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$ (concrete), ambient temperature after complete hardening $-40\text{ }^{\circ}\text{C}$ to $+120\text{ }^{\circ}\text{C}$ (in concrete). If stored in a dark, cool and dry place, will keep for at least 18 months.



Marking spreading tool for drop-in anchors

St G



Type	Length mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
E-MSH 6x25	235	M6	1	41.300	3492964
E-MSH 8x25	235	M8	1	42.500	3492966
E-MSH 8x30	235	M8	1	43.100	3492968
E-MSH 10x25	235	M10	1	44.500	3492971
E-MSH 12x25	235	M12	1	48.000	3492973
E-MSH 10x40	235	M10	1	45.000	3492974
E-MSH 12x50	235	M12	1	47.000	3492978

Marking spreading tool with hand protection for drop-in anchors, type E

BZ-IGS setting tool

St G



Type	Thread	Pack Piece	Weight kg/100 pc.	Item no.
BZ-IGS M 6V	M6	1	39.400	3498380
BZ-IGS M 8V	M8	1	38.300	3498382
BZ-IGS M 10V	M10	1	40.600	3498384
BZ-IGS M 12V	M12	1	42.100	3498386

Setting tool BZ-IGS for push-through installation.

Flatteners

Flattener

St

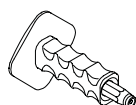


Type	Dim. L mm	Dim. D mm	Size	Pack Piece	Weight kg/100 pc.	Item no.
915 S M6	135	14	M6	1	17.000	3031012

Flattener for OBO anchors 903 with M6 thread.

Flattener with hand protection

St

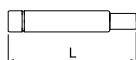


Type	Pack Piece	Weight kg/100 pc.	Item no.
915 RBS M4	1	52.000	3031500

Flattener with hand protection for OBO anchors 903/RB Ø 4 mm and also for OBO anchors 904 with M4 thread.

Setting tool for hand hammer

St G



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

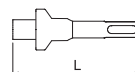
Setting tool PBD porous concrete anchors – for hand hammer.

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.

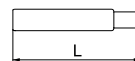


St G

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

Pressing gun for 10:1 coaxial cartridges

Type	Pack Piece	Weight 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 Piece	Weight 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 Piece	Weight 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 pipe for mortar cartridge

PA



Type	Pack Piece	Weight 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

Anchor rod

St G



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

Steel cleaning brush for drill holes

St G



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

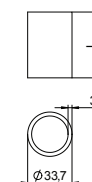
Using the steel wire brush, drill holes must be mechanically cleaned according to the anchor approval, in order to obtain a clean adhesion substrate for the injection mortar.

The steel wire brush is fixed to an SDS adapter with a threaded connection, in order to clean the drill holes with a drill.

St FT

Spacer sleeve for insulated ceilings

Type	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
DHI 050	50	30	11.600	7205900
DHI 060	60	24	14.000	7205901
DHI 070	70	20	16.200	7205902
DHI 080	80	20	18.200	7205903
DHI 090	90	14	20.800	7205904
DHI 100	100	14	23.400	7205905
DHI 110	110	12	24.600	7205906
DHI 120	120	12	27.600	7205907
DHI 130	130	12	30.400	7205908
DHI 140	140	12	32.800	7205909
DHI 150	150	12	35.000	7205910

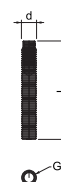


Spacer sleeve for mounting suspension components under insulated ceilings. They prevent the insulation from pushing in when the fastening screws are tightened.
Burr arm, galvanised internally and externally.

St G

Metallic internal thread sleeve

Type	Dim. L mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
VMU-IG M6x80vz	80	10	10	3.350	3497840
VMU-IG M8x80vz	80	12	10	4.650	3497842
VMU-IG M10x80vz	80	16	10	8.750	3497844
VMU-IG M6x80A4	80	10	10	3.350	3497850
VMU-IG M8x80A4	80	12	10	4.650	3497852
VMU-IG M10x80A4	80	16	10	8.750	3497854



With the internal thread sleeve and matching plastic wire sleeve, loads are fastened without spreading pressure in concrete and masonry walls and ceilings using the VMS plus injection mortar.

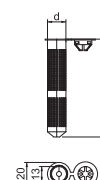
The internal thread sleeve VMU-IG M6x80 mm is mounted using the plastic wire sleeve VM-SH 16x85.

The internal thread sleeves VMU-IG M8x80 and VMU-IG M10x80 mm are mounted using the plastic wire sleeve VM-SH 20x85.

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.



SDS adapter

St



Type	Pack Piece	Weight kg/100 pc.	Item no.
RBL M6 SDS	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

SDS extension

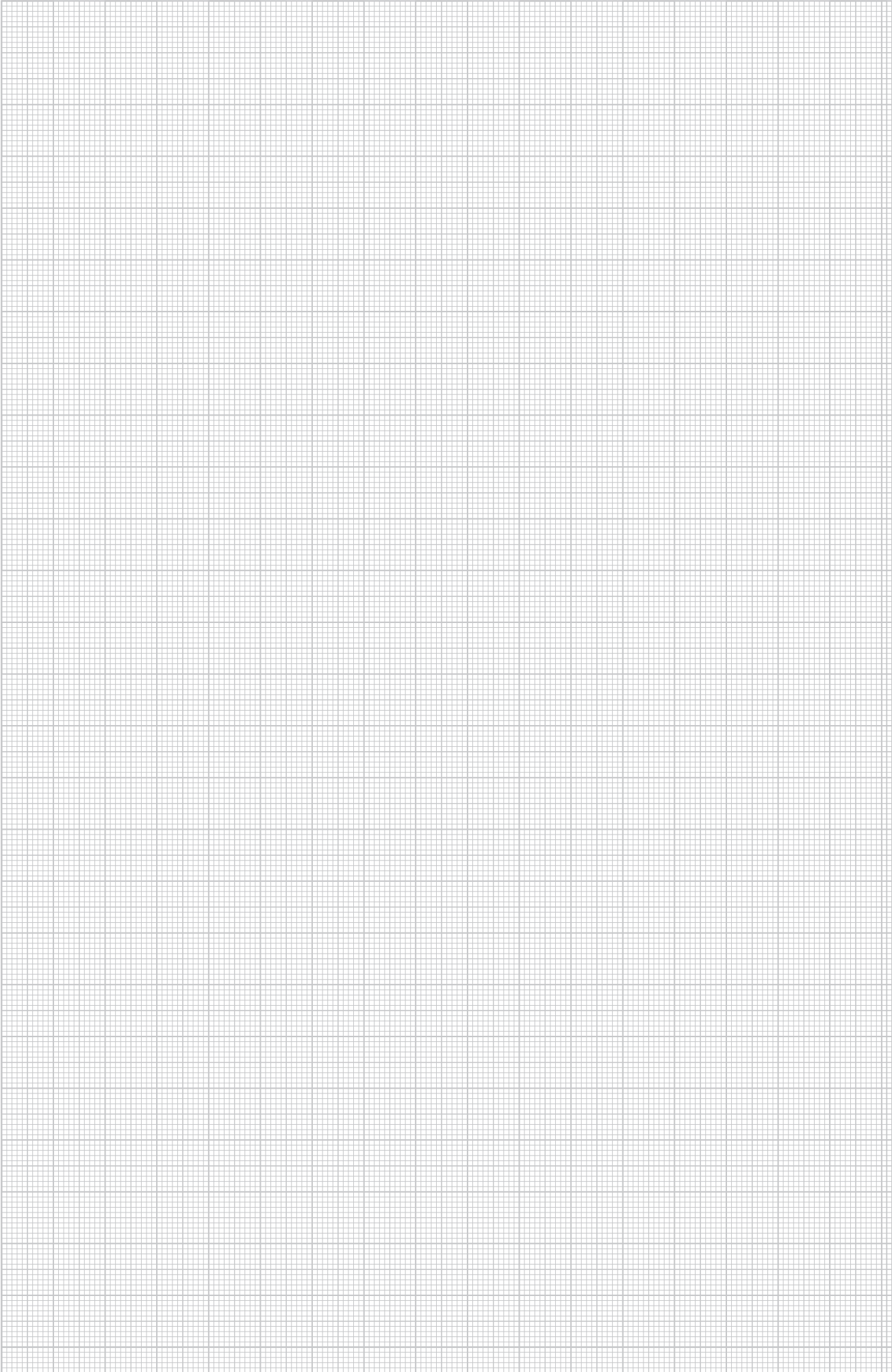
St



Type	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
RB-L 150 M6	150	1	9.700	3497932

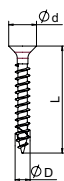
Extension with internal and external M6 thread for the connection of the SDS adapter with steel wire brush in difficult to access drill holes.





Chipboard screw, with Torx, countersunk head, stainless steel

A4 2B

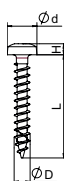


Type	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
OTSC 3,5x30 A4	30	3.5	100	0.090	3191050
OTSC 3,5x40 A4	40	3.5	100	0.210	3191052
OTSC 4,0x25 A4	25	4	100	0.125	3191056
OTSC 4,0x30 A4	30	4	100	0.220	3191058
OTSC 4,0x40 A4	40	4	100	0.240	3191060
OTSC 4,0x50 A4	50	4	100	3.100	3191062
OTSC 4,5x30 A4	30	4.5	100	0.290	3191066
OTSC 4,5x40 A4	40	4.5	100	0.310	3191068
OTSC 4,5x50 A4	50	4.5	100	0.400	3191070
OTSC 5,0x40 A4	40	5	100	0.455	3191074
OTSC 5,0x50 A4	50	5	100	0.460	3191076
OTSC 5,0x60 A4	60	5	100	0.465	3191078
OTSC 6,0x40 A4	40	6	100	0.710	3191082
OTSC 6,0x50 A4	50	6	100	0.830	3191084
OTSC 6,0x60 A4	60	6	100	0.960	3191086

Stainless steel wood screw with countersunk head and Torx drive for fastenings in interior and exterior areas.
Areas of use: Wood, chipboard, plasterboard panels and plastic anchors.

Chipboard screw, with Torx, panhead, stainless steel

A4 2B



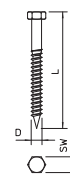
Type	Dim. L mm	Dim. D mm	Pack Piece	Weight kg/100 pc.	Item no.
OTSP 3,5x30 A4	30	3.5	100	0.165	3191000
OTSP 3,5x40 A4	40	3.5	100	0.210	3191002
OTSP 4,0x25 A4	25	4	100	0.185	3191006
OTSP 4,0x30 A4	30	4	100	0.215	3191008
OTSP 4,0x40 A4	40	4	100	0.265	3191010
OTSP 4,0x50 A4	50	4	100	0.325	3191012
OTSP 4,5x30 A4	30	4.5	100	0.260	3191016
OTSP 4,5x40 A4	40	4.5	100	0.330	3191018
OTSP 4,5x50 A4	50	4.5	100	0.395	3191020
OTSP 5,0x40 A4	40	5	100	0.450	3191024
OTSP 5,0x50 A4	50	5	100	0.530	3191026
OTSP 5,0x60 A4	60	5	100	0.600	3191028
OTSP 6,0x40 A4	40	6	100	0.720	3191032
OTSP 6,0x50 A4	50	6	100	0.830	3191034
OTSP 6,0x60 A4	60	6	100	0.960	3191036

Stainless steel wood screw with lens head and Torx drive for fastenings in interior and exterior areas.
Areas of use: Wood, chipboard, plasterboard panels and plastic anchors.

St G

Hexagonal wood screw DIN 571

Type	Dim. L mm	Dim. D mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
HHWS 6x40 G	40	6	10	50	0.825	3188043
HHWS 6x50 G	50	6	10	50	0.960	3188051
HHWS 6x60 G	60	6	10	50	1.120	3188078
HHWS 6x80 G	80	6	10	50	1.375	3188094
HHWS 8x40 G	40	8	13	50	1.560	3188140
HHWS 8x50 G	50	8	13	50	1.820	3188159
HHWS 8x60 G	60	8	13	50	2.100	3188167
HHWS 8x70 G	70	8	13	50	2.360	3188175
HHWS 8x80 G	80	8	13	50	2.650	3188183
HHWS 8x100 G	100	8	13	50	3.200	3188205
HHWS 10x60 G	60	10	17	25	3.650	3188256
HHWS 10x70 G	70	10	17	25	4.050	3188272
HHWS 10x80 G	80	10	17	25	4.510	3188280
HHWS 10x100 G	100	10	17	25	5.400	3188302
HHWS 12x70 G	70	12	19	20	5.750	3188361
HHWS 12x80 G	80	12	19	20	6.430	3188388

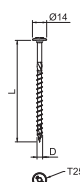


Hexagonal screw to DIN 571 with wood thread. Suitable for anchors, type 910.

St G

Flange head-screw HT 6

Type	Dim. D mm	Dim. 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	0.110	3498132
HT 6x100 TD	6	100	14	Torx	100	0.130	3498134
HT 6x120 TD	6	120	14	Torx	100	0.150	3498136

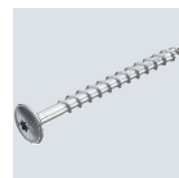
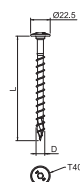


Self-tapping wood screw for fireproof fastening of cable systems for the maintenance of electrical function according to DIN 4102 Part 12 on supporting wooden structures. The flange head shape allows installation without an additional washer.

St G

Flange head-screw HT 10

Type	Dim. D mm	Dim. L mm	Head Ø mm	Screw system	Pack Piece	Weight kg/100 pc.	Item no.
HT 10x80 TD	10	80	22.5	Torx	50	0.310	3498140
HT 10x100 TD	10	100	22.5	Torx	50	0.370	3498142
HT 10x120 TD	10	120	22.5	Torx	50	0.430	3498144
HT 10x140 TD	10	140	22.5	Torx	50	0.490	3498146



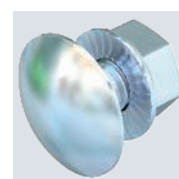
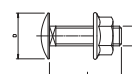
Self-tapping wood screw for fireproof fastening of cable systems for the maintenance of electrical function according to DIN 4102 Part 12 on supporting wooden structures. The flange head shape allows installation without an additional washer.

Truss-head bolts

St G

Truss-head bolt with 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 VZ G	M6x12	12	6	13.5	5.6	10	0.700	6406133
FRSB 6x12 G	M6x12	12	6	13.5	5.6	100	0.804	6406130
FRSB 6x20 G	M6x20	20	6	13.5	5.6	100	0.903	6406181

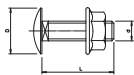
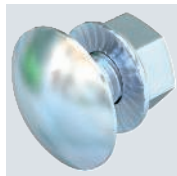


Hot galvanised truss-head bolt with square neck including electrogalvanised combination nut.
For universal fastening of construction components. Permitted use of the article only in dry atmospheres.



Truss-head bolt with flange nut

St F

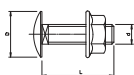
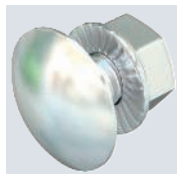


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRSB 6x12 VZ F	M6x12	12	6	13.5	5.6	10	0.840	6406125
FRSB 6x12 F	M6x12	12	6	13.5	5.6	100	0.812	6406122
FRSB 6x16 F	M6x16	16	6	13.5	5.6	100	0.890	6406157
FRSB 6x20 F	M6x20	20	6	13.5	5.6	100	0.965	6406203
FRSB 6x30 F	M6x30	30	6	13.5	5.6	100	1.232	6406907

Truss-head bolt with square neck including flange nut.

Truss-head bolt with flange nut

VA VA 2B

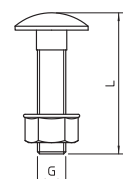
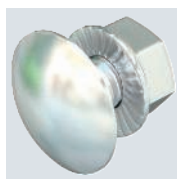


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRSB 6x12 A2	M6x12	12	6	13.5	A2-70	100	0.830	6406138
FRSB 6x16 A2	M6x16	16	6	13.5	A2-70	100	0.800	6406189
FRSB 6x20 A2	M6x20	20	6	13.5	A2-70	100	0.960	6406205
FRSB 6x12 A4	M6x12	12	6	13.5	A4-50	100	0.796	6406142
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.

Truss-head bolt with combination nut, V2A

A2 2B

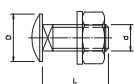
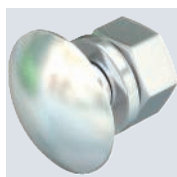


Type	Dimension mm	Dim. D mm	Dim. L mm	Pack Piece	Weight kg/100 pc.	Item no.
FRSB M8x35 A2	M8x35	8	35	50	2.570	3175608
FRSB M10x20 A2	M10x20	10	20	50	3.000	3175620
FRSB M10x25 A2	M10x25	10	25	50	3.700	3175625

Truss-head bolt with square neck and combination nut.

Truss-head bolt with nut and washer

VA 2B



Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 10x25 A4	M10x25	25	10	24	A4-70	50	4.500	6407524

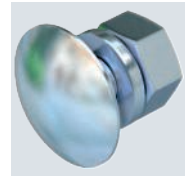
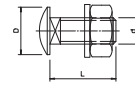
Truss-head bolt with square neck including washer and hexagonal nut.



St F

Truss-head bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 8x16 F 8.8	M8x16	16	8	20	8.8	50	1.947	6406963
FRS 8x16 F 5.6	M8x16	16	8	20	5.6	50	2.000	6406939
FRS 8x20 F	M8x20	20	8	20	5.6	50	2.054	6406971
FRS 8x25 F	M8x25	25	8	20	8.8	50	2.217	6406998
FRS 8x35 F	M8x35	35	8	20	5.6	50	2.431	6407048
FRS 10x20 F	M10x20	20	10	24	8.8	50	4.100	6407471
FRS 10x25 F	M10x25	25	10	24	5.6	50	4.077	6407528
FRS 10x25 F 8.8	M10x25	25	10	24	8.8	50	4.500	6407560
FRS 10x25 TPS F	M10x25	25	10	18	5.6	50	4.300	6407536
FRS 10x30 F	M10x30	30	10	24	8.8	50	4.187	6407579
FRS 12x25 F	M12x25	25	12	30	5.6	50	6.518	6406254
FRS 12x30 F	M12x30	30	12	30	5.6	50	6.805	6406270



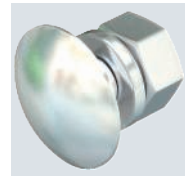
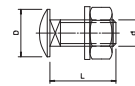
Truss-head bolt with square neck. With washer and hexagonal nut.

The truss-head bolt can be used in combination with hot-dip and double-dip galvanised articles.

VA VA VA 2B

Truss-head bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. D mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
FRS 6x12 A2	M6x12	12	6	13.5	A2-70	100	0.760	6406521
FRS 6x16 A2	M6x16	15	6	13.5	A2-70	100	0.869	6406556
FRS 6x20 A2	M6x20	20	6	13.5	A2-70	100	0.942	6406602
FRS 8x16 A2	M8x16	16	8	20	A2-70	50	1.926	6406696
FRS 8x25 A2	M8x25	25	8	20	A2-70	50	2.300	6406815
FRS 8x35 A2	M8x35	35	8	20	A2-70	50	2.700	6406823
FRS 10x20 A2	M10x20	20	10	24	A2-70	50	4.100	6406866
FRS 10x25 A2	M10x25	25	10	24	A2-70	50	3.905	6406718
FRS 10x30 A2	M10x30	30	10	24	A2-70	50	4.500	6406726
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
FRS 10x20S A4	M10x20	20	10	24	A4-70	50	4.100	6406872

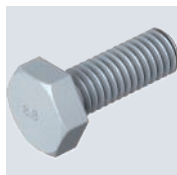


Truss-head bolt with square neck including washer and hexagonal nut.



Hexagonal bolt DIN 933

St ZL

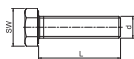
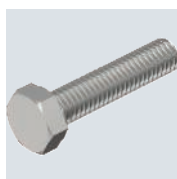


Type	Thread	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
SKS M6x16 ZL	M6	M6x16	16	6	10	100	0.530	3156706
SKS M6x20 ZL	M6	M6x20	20	6	10	100	0.600	3156708
SKS M6x30 ZL	M6	M6x30	30	6	10	100	0.780	3156710
SKS M6x40 ZL	M6	M6x40	40	6	10	100	0.950	3156712
SKS M6x55 ZL	M6	M6x55	55	6	10	100	1.230	3156715
SKS M6x60 ZL	M6	M6x60	60	6	10	100	1.310	3156716
SKS M8x20 ZL	M8	M8x20	20	8	13	100	1.190	3156728
SKS M8x30 ZL	M8	M8x30	30	8	13	100	1.510	3156730
SKS M8x40 ZL	M8	M8x40	40	8	13	100	1.820	3156732
SKS M8x50 ZL	M8	M8x50	50	8	13	100	2.150	3156734
SKS M8x60 ZL	M8	M8x60	60	8	13	100	2.440	3156736
SKS M8x80 ZL	M8	M8x80	80	8	13	100	3.080	3156738
SKS M10x20 ZL	M10	M10x20	20	10	17	50	2.180	3156758
SKS M10x30 ZL	M10	M10x30	30	10	17	50	2.660	3156760
SKS M10x40 ZL	M10	M10x40	40	10	17	50	3.200	3156762
SKS M10x50 ZL	M10	M10x50	50	10	17	50	3.700	3156764
SKS M10x60 ZL	M10	M10x60	60	10	17	50	4.160	3156766
SKS M10x70 ZL	M10	M10x70	70	10	17	50	4.640	3156768
SKS M10x80 ZL	M10	M10x80	80	10	17	50	5.000	3156770
SKS M10x100 ZL	M10	M10x100	100	10	17	50	6.180	3156774
SKS M12x30 ZL	M12	M12x30	30	12	19	50	3.880	3156788
SKS M12x40 ZL	M12	M12x40	40	12	19	50	4.600	3156790
SKS M12x50 ZL	M12	M12x50	50	12	19	50	5.340	3156792
SKS M12x60 ZL	M12	M12x60	60	12	19	50	6.080	3156794
SKS M12x80 ZL	M12	M12x80	80	12	19	50	7.520	3156796
SKS M12x100 ZL	M12	M12x100	100	12	19	50	8.940	3156799

Hexagonal bolt according to DIN 933 with metric thread. Resistance grade at least 8.8.

Hexagonal bolt DIN 933 V2A

A2 2B

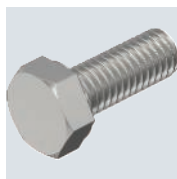


Type	Thread	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
HHS M10x45 A2	M10	M10x45	45	10	17	50	3.370	3156040
HHS M12x45 A2	M12	M12x45	45	12	19	50	4.850	3156042
HHS M16x50 A2	M16	M16x50	50	16	24	50	10.300	3156044

Hexagonal bolt according to DIN 933 with metric thread.

Hexagonal bolt DIN 933

A4 2B



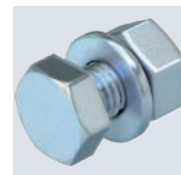
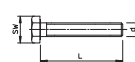
Type	Thread	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
HHS M6x16 A4	M6	M6x16	16	6	10	100	0.511	3156016
HHS M6x20 A4	M6	M6x20	20	6	10	100	0.580	3156018
HHS M6x25 A4	M6	M6x25	25	6	10	100	0.665	3156019
HHS M6x30 A4	M6	M6x30	30	6	10	100	0.751	3156020
HHS M6x35 A4	M6	M6x35	35	6	10	100	0.837	3156021
HHS M6x40 A4	M6	M6x40	40	6	10	100	0.923	3156022
HHS M8x20 A4	M8	M8x20	20	8	13	100	1.230	3156024
HHS M8x25 A4	M8	M8x25	25	8	13	100	1.390	3156025
HHS M8x30 A4	M8	M8x30	30	8	13	100	1.550	3156026
HHS M8x40 A4	M8	M8x40	40	8	13	100	1.870	3156027
HHS M8x50 A4	M8	M8x50	50	8	13	100	2.180	3156028
HHS M10x20 A4	M10	M10x20	20	10	17	100	2.320	3156031
HHS M10x30 A4	M10	M10x30	30	10	17	100	2.620	3156032
HHS M10x40 A4	M10	M10x40	40	10	17	50	3.120	3156033
HHS M10x50 A4	M10	M10x50	50	10	17	50	3.620	3156034
HHS M10x60 A4	M10	M10x60	60	10	17	50	4.130	3156035
HHS M12x30 A4	M12	M12x30	30	12	19	50	3.770	3156036
HHS M12x40 A4	M12	M12x40	40	12	19	50	4.740	3156029
HHS M12x50 A4	M12	M12x50	50	12	19	50	5.200	3156037

Hexagonal bolt according to DIN 933 with metric thread.

St F

Hexagonal bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 6x12 F	M 6 x 12	12	6	10	5.6	100	0.810	3156494
SKS 6x20 F	M 6 x 20	20	6	10	5.6	100	0.900	3156516
SKS 6x30 F	M 6 x 30	30	6	10	5.6	100	1.100	3156524

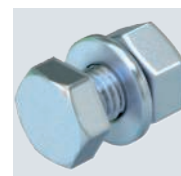
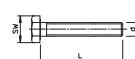


Hexagonal bolt for universal fixing of structure components.

St F

Hexagonal bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 8x16 F	M 8 x 16	16	8	13	8.8	50	1.900	3158624
SKS 8x20 F	M 8 x 20	20	8	13	8.8	50	1.500	3158632
SKS 8x30 F	M 8 x 30	30	8	13	5.6	50	2.300	3158640

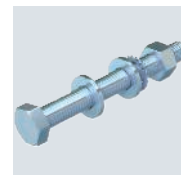


Hexagonal bolt for universal fixing of structure components.

St F

Hexagonal bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x25 F	M 10 x 25	25	10	17	8.8	50	4.200	3160734
SKS 10x30 F	M 10 x 30	30	10	17	8.8	50	4.400	3160742
SKS 10x40 F	M 10 x 40	40	10	17	8.8	50	4.900	3160750
SKS 10x60 F	M 10 x 60	60	10	17	8.8	20	6.000	6408516
SKS 10x80 F	M 10 x 80	80	10	17	8.8	20	6.865	6418250
SKS 10x90 F	M 10 x 90	90	10	17	8.8	20	8.950	6418252
SKS 10x120 F	M 10 x 120	120	10	17	8.8	20	13.500	3160793

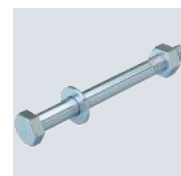


Hexagonal bolt for universal fixing of structure components.

St G

Hexagonal bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. l mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x110 G	M 10 x 110	110	30	10	17	5.6	20	9.500	6418244

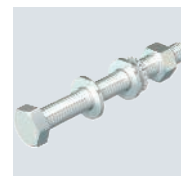


Hexagonal bolt with washers and hexagonal nut.

A4

Hexagonal bolt with nut and washer

Type	Dimension mm	Dim. L mm	Dim. d mm	SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x30 A4	M 10 x 30	30	10	17	A4-70	50	3.000	3160752

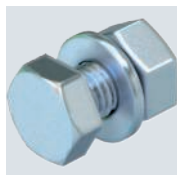


Hexagonal bolt for universal fixing of structure components.



Hexagonal bolt with nut and washer

St F

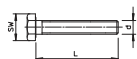
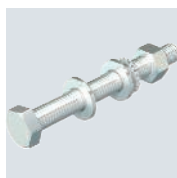


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x30 F	M 12x30	30	12	19	8.8	20	7.200	3163091
SKS 12x40 F	M 12x40	40	12	19	8.8	25	7.800	3163113
SKS 12x60 F	M 12x60	60	12	19	8.8	25	9.000	3163156

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with nut and washer

VA VA 2B

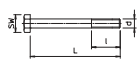
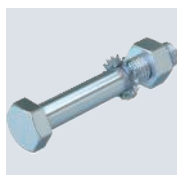


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 10x90 A2	M 10x90	90	10	17	A2-70	20	10.038	6418255
SKS 10x80 A4	M 10x80	80	10	17	A4-70	20	7.800	6418248
SKS 10x90 A4	M 10x90	90	10	17	A4-70	20	7.800	6418256

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with hexagonal nut, washer and tooth lock washer

St F

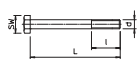


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x80 F	M 12x80	80	30	12	19 8.8	20	11.800	6418287
SKS 12x100 F	M 12x100	100	30	12	19 8.8	20	12.000	6418295
SKS 12x110 F	M 12x110	110	30	12	19 8.8	20	14.500	6418317
SKS 12x130 F	M 12x130	130	36	12	19 8.8	20	15.500	6408478

Hexagonal bolt with hexagonal nut, washer and tooth lock washer.

Hexagonal bolt with hexagonal nut, washer and tooth lock washer

VA 2B

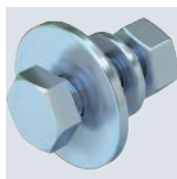


Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x80 A2	M 12x80	80	30	12	19 A2-70	20	11.800	6418279
SKS 12x100 A2	M 12x100	100	30	12	19 A2-70	20	12.000	6418368
SKS 12x110 A2	M 12x110	110	30	12	19 A2-70	20	14.500	6418376

Hexagonal bolt for universal fixing of structure components.

Hexagonal bolt with large surface screw, washer and nut

St F



Type	Dimension mm	Dim. L mm	Dim. d mm	Dim. SW mm	Resistance grade	Pack Piece	Weight kg/100 pc.	Item no.
SKS 12x40 G F	M 12x40	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.

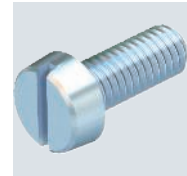
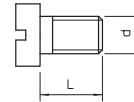
St G



Cylinder head bolt

Type	Thread	Length mm	Pack Piece	Weight kg/100 pc.	Item no.
341 M6x10 G	M6	10	100	0.349	3153096
341 M6x16 G	M6	16	100	0.479	3153150
341 M6x20 G	M6	20	100	0.569	3153207

Cylinder head bolt according to ISO 1207 with metric thread



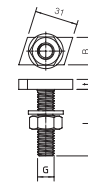
Hook head screws

St ZL

Hook-head screw

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M6x30 ZL	35	17	10	M6x30mm	3.3	50	4.800	1148106
MS40HB M8x30 ZL	35	17	10	M8x30mm	8	50	5.650	1148110
MS40HB M8x60 ZL	35	17	10	M8x60mm	8	25	6.850	1148114
MS40HB M10x30 ZL	35	14	7.5	M10x30mm	16.1	50	6.000	1148118
MS40HB M10x60 ZL	35	14	7.5	M10x60mm	16.1	25	7.850	1148122
MS40HB M12x30 ZL	35	14	7.5	M12x30mm	27	50	7.550	1148126
MS40HB M12x60 ZL	35	14	7.5	M12x60mm	27	25	10.250	1148130

Hook-head screw for use with MS4022 profile rail

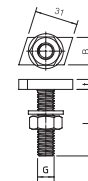


A4 2B

Hook head screw

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS40HB M6x30 A4	35	17	10	M6x30mm	2.9	50	4.800	1148146
MS40HB M8x30 A4	35	17	10	M8x30mm	7.1	50	5.650	1148150
MS40HB M8x60 A4	35	17	10	M8x60mm	7.1	25	6.850	1148154
MS40HB M10x30 A4	35	14	7.5	M10x30mm	14	50	6.000	1148160
MS40HB M10x60 A4	35	14	7.5	M10x60mm	14	25	7.850	1148164
MS40HB M12x30 A4	35	14	7.5	M12x30mm	24	50	7.550	1148168
MS40HB M12x60 A4	35	14	7.5	M12x60mm	24	25	9.320	1148170

Hook-head screw for use with MS4022 profile rail

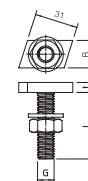


St ZL

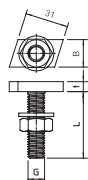
Hook-head screw

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

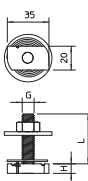


A4 2B



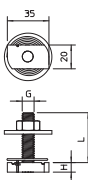
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50HB M6x30 A4	43	21	12	M6x30mm	50	7.800	1148256
MS50HB M8x30 A4	43	21	12	M8x30mm	50	8.700	1148260
MS50HB M8x60 A4	43	21	12	M8x60mm	25	9.900	1148264
MS50HB M10x30 A4	43.3	13	10	M10x30mm	50	7.700	1148268
MS50HB M10x60 A4	43.3	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

St ZL



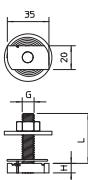
Type	Length mm	Width mm	Height mm	Thread	Torque Nm		Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M6x30 ZL	35	20	6	M 6 x 30	3.3		50	4.000	1148306
MS41HB M8x30 ZL	35	20	6	M 8 x 30	8		50	4.850	1148310
MS41HB M8x60 ZL	35	20	6	M 8 x 60	8		25	6.000	1148314
MS41HB M8x100 ZL	35	20	6	M 8 x 100	8		20	7.600	1148318
MS41HB M10x30 ZL	35	20	8	M 10 x 30	16		50	7.400	1148322
MS41HB M10x60 ZL	35	20	8	M 10 x 60	16		25	9.250	1148326
MS41HB M10x100ZL	35	20	8	M 10 x 100	16		20	11.700	1148330
MS41HB M12x30 ZL	35	20	9.5	M 12 x 30	27		50	9.750	1148334
MS41HB M12x60 ZL	35	20	9.5	M 12 x 60	27		25	12.400	1148338
MS41HB M12x100ZL	35	20	9.5	M 12 x 100	27		20	15.950	1148342

A4 2B



Type	Length mm	Width mm	Height mm	Thread	Torque Nm		Pack Piece	Weight kg/100 pc.	Item no.
MS41HB M6x30 A4	35	20	6	M6x30	3.4		50	4.000	1148406
MS41HB M8x30 A4	35	20	6	M8x30	6.2		50	4.800	1148410
MS41HB M8x60 A4	35	20	6	M8x60	6.2		25	6.000	1148414
MS41HB M8x100 A4	35	20	6	M8x100	6.2		20	7.550	1148418
MS41HB M10x30 A4	35	20	8	M10x30	9.9		50	7.350	1148422
MS41HB M10x60 A4	35	20	8	M10x60	9.9		25	9.200	1148426
MS41HB M10x100A4	35	20	8	M10x100	9.9		20	11.650	1148430
MS41HB M12x30 A4	35	20	9.5	M12x30	14.4		50	9.700	1148434
MS41HB M12x60 A4	35	20	9.5	M12x60	14.4		25	12.400	1148438
MS41HB M12x100A4	35	20	9.5	M12x100	14.4		20	15.900	1148442

St F



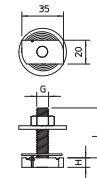
Type	Length mm	Width mm	Height mm	Thread	Torque Nm		Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M8x30 F	35	20	6	M 8x30	8		50	5.200	1148376
MS41HBF M8x60 F	35	20	6	M 8x60	8		25	6.300	1148380
MS41HBF M10x30 F	35	20	8	M 10x30	16.1		50	7.700	1148384
MS41HBF M10x60 F	35	20	8	M 10x60	16.1		25	9.550	1148388
MS41HBF M12x30 F	35	20	9.5	M 12x30	27		50	10.000	1148392
MS41HBF M12x60 F	35	20	9.5	M 12x60	27		25	12.700	1148396

Always indicate the item number when ordering.

A4 2B

Hammer-head bolt with spring

Type	Length mm	Width mm	Height mm	Thread	Torque Nm	Pack Piece	Weight kg/100 pc.	Item no.
MS41HBF M8x30 A4	35	20	6	M 8 x 30	6.2	50	4.800	1148476
MS41HBF M8x60 A4	35	20	6	M 8 x 60	6.2	25	5.950	1148480
MS41HBF M10x30A4	35	20	8	M 10 x 30	9.9	50	7.350	1148484
MS41HBF M10x60A4	35	20	8	M 10 x 60	9.9	25	9.200	1148488
MS41HBF M12x30A4	35	20	9.5	M 12 x 30	14.4	50	9.700	1148492
MS41HBF M12x60A4	35	20	9.5	M 12 x 60	14.4	25	12.400	1148496



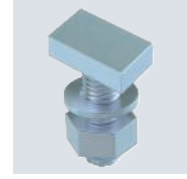
Hammer-head bolt with spring for use with MS4121 and MS4141 profile rails

St ZL

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL20HB M5x25 ZL	21.1	10.5	4	M 5 x 25mm	50	1.100	1148008
CL20HB M6x25 ZL	21.1	10.5	4	M 6 x 25mm	50	1.420	1148012
CL20HB M8x25 ZL	21.1	10.5	4	M 8 x 25mm	50	2.150	1148016

Hammer-head bolt for use with CL2008 profile rail

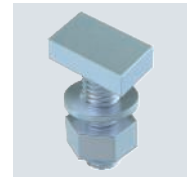
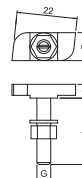


St ZL

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
CL27HB M5x25 ZL	23	10.1	4	M 5 x 25mm	50	1.250	1148020
CL27HB M6x25 ZL	23	10.1	4	M 6 x 25mm	50	1.570	1148024
CL27HB M8x25 ZL	23	10.1	4	M 8 x 25mm	50	2.300	1148028

Hammer-head bolt for use with CL2712 profile rail

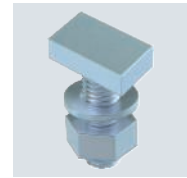


St ZL

Hammer-head bolt

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMHB M6x30 ZL	26	16.5	5	M 6 x 30mm	50	2.600	1148056
ACMHB M8x30 ZL	26	16.5	5	M 8 x 30mm	50	3.197	1148060
ACMHB M8x60 ZL	26	16.5	5	M 8 x 60mm	25	4.650	1148064
ACMHB M10x30 ZL	26	16.5	5	M 10 x 30mm	50	4.950	1148068
ACMHB M10x60 ZL	26	16.5	5	M 10 x 60mm	25	6.750	1148072

Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails

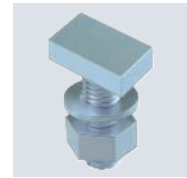
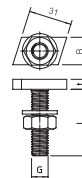


A4 2B

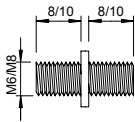
Hammer-head bolt

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 30mm	50	2.600	1148076
ACMHB M8x30 A4	26	16.5	5	M 8 x 30mm	50	3.450	1148080
ACMHB M8x60 A4	26	16.5	5	M 8 x 60mm	25	4.650	1148084
ACMHB M10x30 A4	26	16.5	5	M 10 x 30mm	50	4.950	1148088
ACMHB M10x60 A4	26	16.5	5	M 10 x 60mm	25	6.240	1148092

Hammer-head bolt for use with CM3015, CM3518 and AM3518 profile rails



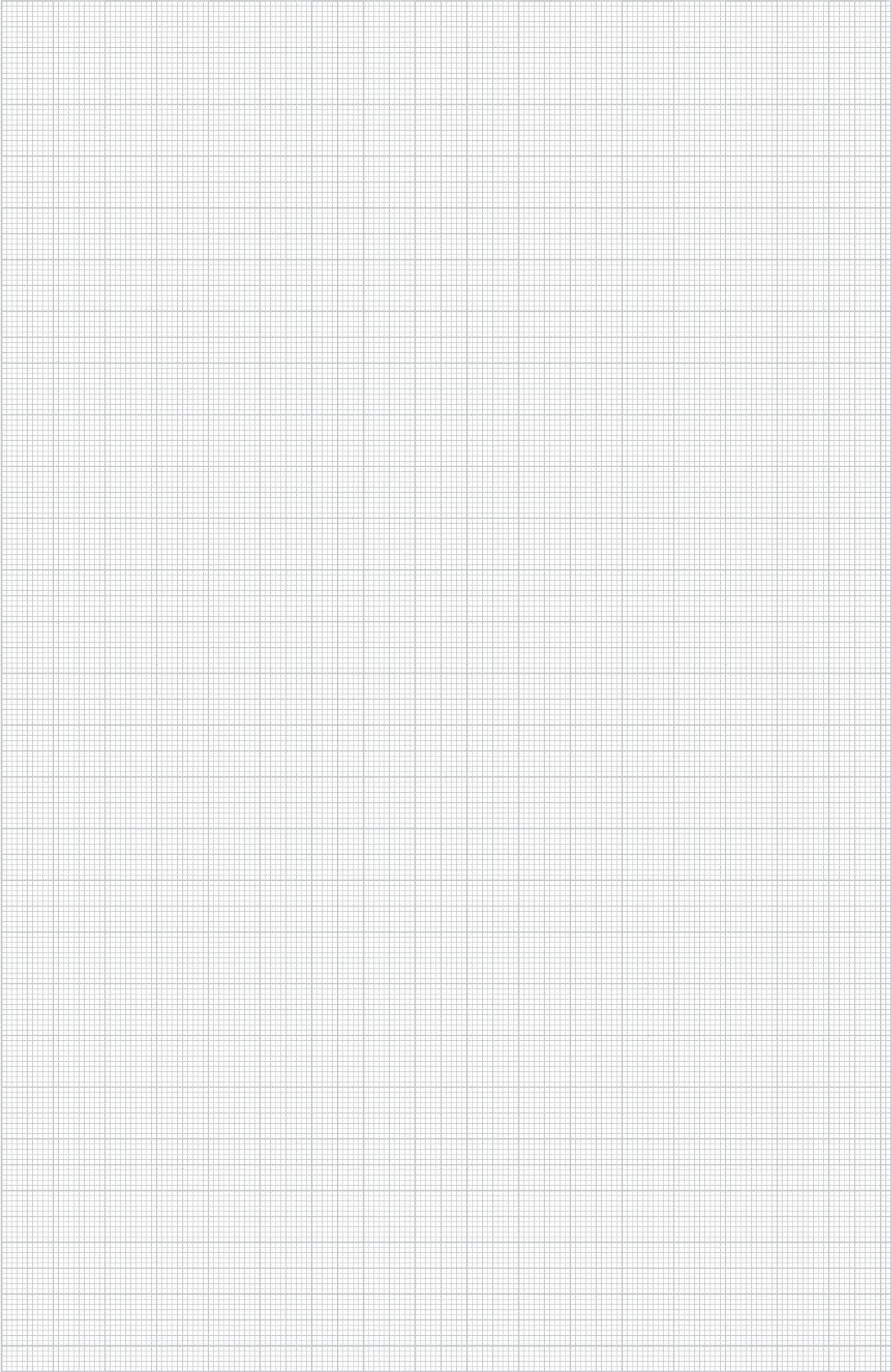
Double nipple



Type	Thread	Thread length mm	Pack	Weight	Item no.
			Piece	kg/100 pc.	
3100 M6 G	M6	8	100	0.358	3131068
3100 M8 G	M8	10	100	0.680	3131084

Double nipple with metric thread.

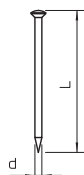




Steel nails

Steel nail

St BK



Type	Dim. L mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
362 16 BK	16	2	100	0.044	3353168
362 18 BK	18	2	100	0.049	3353184
362 23 BK	23	2	100	0.061	3353230
362 30 BK	30	2	100	0.080	3353303
362 40 BK	40	2	100	0.103	3353400
362 50 BK	50	2	100	0.128	3353508
362 60 BK	60	2	100	0.150	3353605

Hardened steel, blue tempered, with bead head.

Steel nail

St G



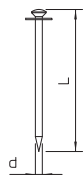
Type	Dim. L mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
362 Z 16 G	16	2	100	0.044	3354164
362 Z 18 G	18	2	100	0.049	3354180
362 Z 23 G	23	2	100	0.061	3354237
362 Z 30 G	30	2	100	0.078	3354296
362 Z 40 G	40	2	100	0.103	3354407
362 Z 50 G	50	2	100	0.128	3354504
362 Z 60 G	60	2	100	0.150	3354601

Hardened steel, electrogalvanised, with bead head.

Impu steel nails

Impu steel nail

St BK



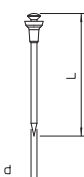
Type	Dim. L mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
500 12	12	2	100	0.040	3360121
500 16	16	2	100	0.046	3360164
500 18	18	2	100	0.055	3360180
500 23	23	2	100	0.062	3360237
500 30	30	2	100	0.081	3360296
500 40	40	2	100	0.108	3360407
500 50	50	2	100	0.128	3360504
500 60	60	2	100	0.150	3360601

Hardened steel, blue tempered, with vulcanised fibre disc.

Siko nails

Siko nail

St BK



Type	Dim. L mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
511 12	12	2	100	0.042	3366111
511 16	16	2	100	0.049	3366162
511 18	18	2	100	0.052	3366189
511 23	23	2	100	0.064	3366235
511 30	30	2	100	0.081	3366308
511 40	40	2	100	0.104	3366405
511 50	50	2	100	0.134	3366502
511 60	60	2	100	0.154	3366596

Hardened steel, blue tempered, with polyethylene safety head.

St BK

Hook nail

Type	Dim. L mm	Dim. d mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
1101 3x40	40	3	18	250	0.290	3341046
1101 3x50	50	3	18	250	0.344	3341054
1101 3x60	60	3	18	250	0.404	3341062
1101 3x70	70	3	18	250	0.466	3341070
1101 3.4x50	50	3.4	18	250	0.451	3341496
1101 3.4x60	60	3.4	18	250	0.548	3341607
1101 3.4x70	70	3.4	18	250	0.672	3341704
1101 3.4x80	80	3.4	18	250	0.682	3341801
1101 3.4x90	90	3.4	18	250	0.757	3341909
1101 3.4x100	100	3.4	18	250	0.820	3341992

Steel, with an 18 mm hook on the head.

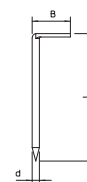


St G

Hook nail

Type	Dim. L mm	Dim. d mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
1101 Z 40 G	40	3	18	250	0.288	3342042
1101 Z 50 G	50	3	18	250	0.360	3342050
1101 Z 60 G	60	3	18	250	0.404	3342069
1101 Z 70 G	70	3	18	250	0.474	3342077
1101 Z3.4x50 G	50	3.4	18	250	0.464	3342506
1101 Z3.4x60 G	60	3.4	18	250	0.548	3342603
1101 Z3.4x70 G	70	3.4	18	250	0.600	3342700
1101 Z3.4x80 G	80	3.4	18	250	0.674	3342808

Steel, galvanised, with 18 mm hook on the head.

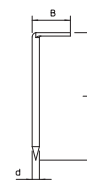


St BK

Steel wall hook

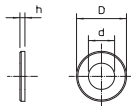
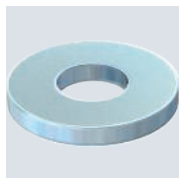
Type	Dim. L mm	Dim. d mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
716 3X50 BK	50	3	18	100	0.415	3347052
716 3X60 BK	60	3	18	100	0.489	3347060
716 3X70 BK	70	3	18	100	0.553	3347079

Steel, bright (St), hardened, blue tempered, made of square bar steel.



Washer

St G

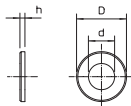
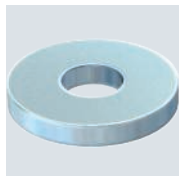


Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M4 D09 G	M4	4.3	9	0.8	100	0.031	3402045
WS M6 D12 G	M6	6.4	12	1.6	100	0.114	3402061
WS M8 D16 G	M8	8.4	16	1.6	100	0.156	3402088
WS M10 D20 G	M10	10.5	20	2	100	0.408	3402096
WS M12 D24 G	M12	13	24	2.5	100	0.570	3402126

Washer according to DIN 125, shape A, for universal use.

Washer ISO 7093

St G

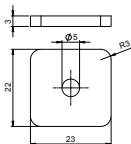


Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D28 G	M6	6.5	28	2.5	100	1.104	3402207
WS M8 D28 G	M8	8.5	28	2.5	100	1.100	3402215
WS M10 D28 G	M10	11	28	2.5	100	1.020	3402223

Washer of large outer diameter for universal use.

Washer

PVC

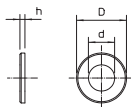
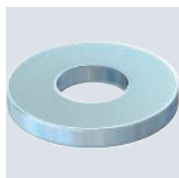


Type	Colour	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
ULS	Grey	3	100	0.170	6178548

Washer as compensation for different heights.

Washer

St F

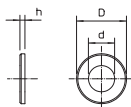


Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
966 M6 F	M6	6.6	12	1.6	100	0.098	3402444
966 M8 F	M8	9	16	1.6	100	0.177	3402452
966 M10 F	M10	11	20	2	100	0.327	3402460
966 M12 F	M12	13.5	24	2.5	100	0.620	3402479

Washer for universal use.

Washer

A2 2B



Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A2	M6	6.4	12	1.6	100	0.114	3402304
WS M8 D16 A2	M8	8.4	16	1.6	100	0.214	3402312
WS M10 D20 A2	M10	10.5	20	2	100	0.408	3402320
WS M12 D24 A2	M12	13	24	2.5	100	0.627	3402339

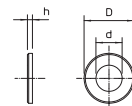
Washer according to DIN 125, shape A, for universal use.



A4 2B

Washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M6 D12 A4	M6	6.4	12	1.6	100	0.114	3402306
WS M8 D16 A4	M8	8.4	16	1.6	100	0.214	3402314
WS M10 D20 A4	M10	10.5	20	2	100	0.408	3402322
WS M12 D24 A4	M12	13	24	2.5	100	0.627	3402345

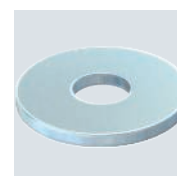
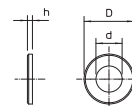


Washer according to DIN 125, shape A, for universal use.

St G

Fender washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M4 G15 G	M4	4.3	15	1.2	100	0.156	3403025
WS M5 G20 G	M5	5.3	20	1.2	100	0.207	3403041
WS M6 G25 G	M6	6.4	25	1.2	100	0.428	3403084
WS M6 G30 G	M6	6.4	30	1.3	100	0.636	3403092
WS M6 G20 G	M6	6.4	20	1.25	100	0.236	3403076
WS M8 G20 G	M8	8.4	20	1.25	100	0.227	3403122
WS M8 G25 G	M8	8.4	25	1.2	100	0.408	3403130
WS M10 G30 G	M10	10.5	30	1.5	100	0.598	3403165

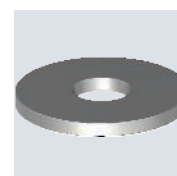
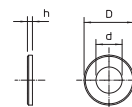


Washer of particularly large outer diameter.

A2 2B

Fender washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M8 D20 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	8.4	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

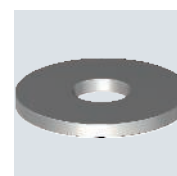
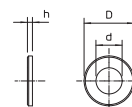


Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.

A4 2B

Fender washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
WS M8 D20 A4	M8	8.4	20	1.5	100	0.240	3403127
WS M8 D25 A4	M8	8.4	25	1.2	100	0.370	3403137
WS M8 D40 A4	M8	8.4	40	1.5	100	0.370	3403147
WS M10 D30 A4	M10	10.5	30	1.5	100	0.592	3403163
WS M10 D40 A4	M10	10.5	40	1.5	100	0.592	3403177



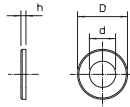
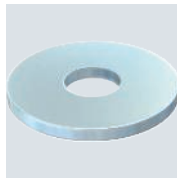
Washer of particularly large outer diameter. In the case of connections on the MS 41 mounting rail, we recommend the external diameter of 40 mm.



Washers

Large washer

St F



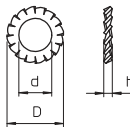
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN440 7 F					100	0.535	6408702
DIN440 9 F					100	1.057	6408710
DIN440 11 F					100	1.852	6408729
DIN440 14 F					50	4.736	6408737

Washer of particularly large outer diameter.

Serrated washers

Serrated washer DIN 6798

St G

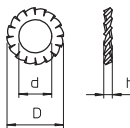


Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
SWS M5 G	M5	5.3	10	1.8	100	0.022	3404056
SWS M6 G	M6	6.4	11	2.1	100	0.036	3404064
SWS M8 G	M8	8.4	15	2.4	100	0.080	3404080
SWS M10 G	M10	10.5	18	2.7	100	0.125	3404102
SWS M12 G	M12	13	20.5	3	100	0.160	3404129

Serrated washer to DIN 6798, shape A.

Serrated washer DIN 6798

A4 2B

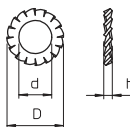


Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
SWS M6 A4	M6	6.4	11	2.1	100	0.036	3404372
SWS M8 A4	M8	8.4	15	2.4	100	0.080	3404377
SWS M10 A4	M10	10.5	18	2.7	100	0.125	3404381
SWS M12 A4	M12	13	20.5	3	100	0.170	3404385

Serrated washer to DIN 6798, shape A.

Serrated washer DIN 6798

A2 2B



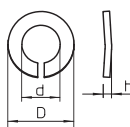
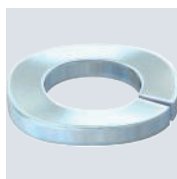
Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
SWS M6 A2	M6	6.4	11	2.1	100	0.040	3404331
SWS M8 A2	M8	8.4	15	2.4	100	0.080	3404358

Serrated washer to DIN 6798, shape A.

Lock washers

Lock washer

St G



Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
LWS M6 G	M6	6.3	11.8	2.1	100	0.070	3405060
LWS M8 G	M8	8.3	14.8	2.6	100	0.130	3405087
LWS M10 G	M10	10.5	18.1	3	100	0.210	3405109
LWS M12 G	M12	12.5	21.1	3.5	100	0.320	3405125

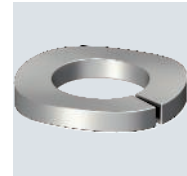
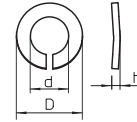
Lock washer according to DIN 128, shape A.



A4 2B

Spring washer

Type	Thread	Dim. d mm	Dim. D mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
LWS M6 A4	M6	6.3	11.8	2.1	100	0.070	3405062
LWS M8 A4	M8	8.3	14.8	2.6	100	0.130	3405089
LWS M10 A4	M10	10.5	18.1	3	100	0.210	3405111
LWS M12 A4	M12	12.5	21.1	3.5	100	0.320	3405127



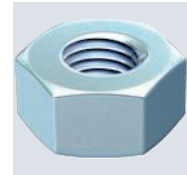
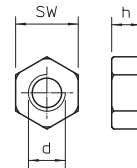
Lock washer according to DIN 128, shape A.

Nuts

St G

Hexagonal nut DIN 934

Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M4 G	M4	7	3.2	4	100	0.081	3400042
HN M5 G	M5	8	4.7	5	100	0.123	3400050
HN M6 G	M6	10	5.2	6	100	0.221	3400069
HN M8 G	M8	13	6.8	8	100	0.500	3400085
HN M10 G	M10	17	8.4	10	100	1.014	3400107
HN M12 G	M12	19	10.8	12	100	1.730	3400123

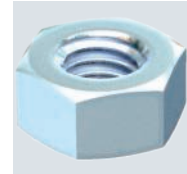
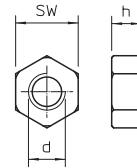


Hexagonal nut to DIN 934 with metric thread.

St F

Hexagonal nut ISO 4032

Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
DIN934 M6 F	M6	10	5.2	6	100	0.250	3400344
DIN934 M8 F	M8	13	6.8	8	100	0.477	3400352
DIN934 M10 F	M10	17	8.4	10	100	1.061	3400360
DIN934 M12 F	M12	19	10.8	12	100	1.540	3400379

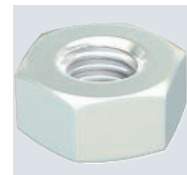
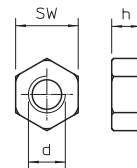


Hexagonal nut to DIN 934 with metric thread.

A2 2B

Hexagonal nut DIN 934

Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M6 A2	M6	10	5.2	6	100	0.215	3397068
HN M8 A2	M8	13	6.8	8	100	0.520	3397084
HN M10 A2	M10	17	8.4	10	100	1.043	3397106
HN M12 A2	M12	19	10.8	12	100	1.730	3397114

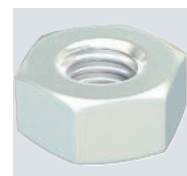
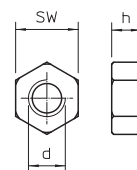


Hexagonal nut to DIN 934 with metric thread.

A4 2B

Hexagonal nut DIN 934

Type	Thread	SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
HN M6 A4	M6	10	5.2	6	100	0.250	3400173
HN M8 A4	M8	13	6.8	8	100	0.520	3400175
HN M10 A4	M10	17	8.4	10	100	1.084	3400177
HN M12 A4	M12	19	10.8	12	100	1.730	3397145

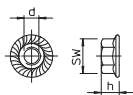
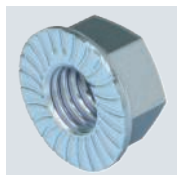


Hexagonal nut to DIN 934 with metric thread.



Flange nut

St G

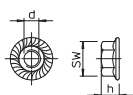
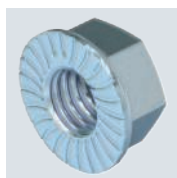


Type	Dim. d mm	Dim. h mm	SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 G	6	6	10	8	100	0.315	6408958

Combination nut with washer based on EN 1661.

Flange nut

St F

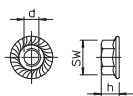


Type	Dim. d mm	Dim. h mm	SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 F	6	6	10	8	100	0.315	6408962

Combination nut with washer based on EN 1661.

Combination nut A2

VA 2B

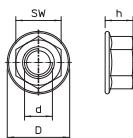


Type	Dim. d mm	Dim. h mm	SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M6 A2	6	6	10	A2-70	100	0.315	6408966

Nut with pressed washer.

Combination nut DIN 6923

A2 2B

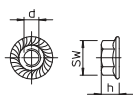


Type	Thread	Dim. SW mm	Dim. h mm	Dim. d mm	Pack Piece	Weight kg/100 pc.	Item no.
KM M8 A2	M8	13	8	17.9	100	0.800	3156120
KM M10 A2	M10	17	10	21.8	50	1.320	3156122
KM M12 A2	M12	19	12	26	50	2.100	3156126

Combination nut with pressed washer in accordance with EN 1661.

Flange nut

VA



Type	Dim. d mm	Dim. h mm	SW mm	Resist- ance grade	Pack Piece	Weight kg/100 pc.	Item no.
KM M8 A4	8	8	13	A4-70	100	0.800	6408920
KM M10 A4	10	10	17	A4-70	100	1.320	6408930
KM M12 A4	12	12	19	A4-70	100	2.260	6408940
KM M6 A4	6	6	10	A4-70	100	0.315	6408970

Combination nut with washer based on EN 1661.

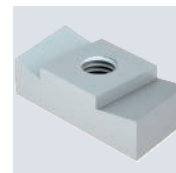
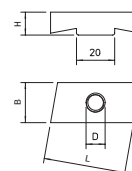


St ZL

Slide nut

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

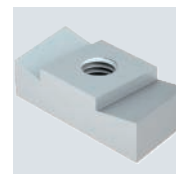
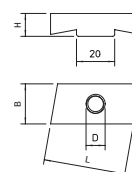


A4 2B

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS40SN M6 A4	35	17	10	M6	50	3.750	1147126
MS40SN M8 A4	35	17	10	M8	50	3.600	1147130
MS40SN M10 A4	35	17	10	M10	50	3.400	1147134
MS40SN M12 A4	35	17	10	M12	50	3.160	1147138

Slide nut for use with MS4022 profile rail

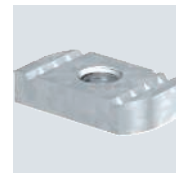
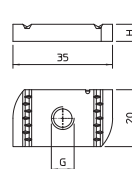


St ZL

Slide nut

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

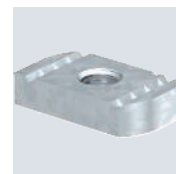
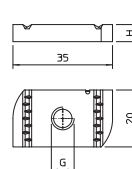


A4 2B

Slide nut

Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SN M6 A4	35	20	6	M6	50	2.880	1147226
MS41SN M8 A4	35	20	6	M8	50	2.800	1147230
MS41SN M10 A4	35	20	8	M10	50	3.650	1147234
MS41SN M12 A4	35	20	9.5	M12	50	4.200	1147238

Slide nut for use with MS4121 und MS4141 profile rails

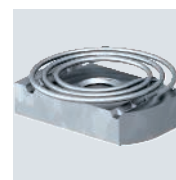
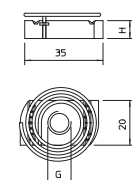


St F

Slide nut with spring

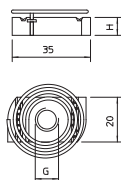
Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SNF M6 F	35	20	6	M6	50	3.200	1147306
MS41SNF M8 F	35	20	6	M8	50	3.150	1147310
MS41SNF M10 F	35	20	8	M10	50	4.000	1147314
MS41SNF M12 F	35	20	9.5	M12	50	4.550	1147318

Slide nut with spring for use with MS4121 und MS4141 profile rails



Slide nut with spring

A4 2B

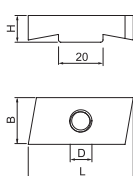
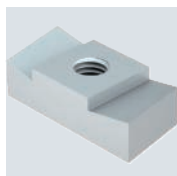


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS41SNF M6 A4	35	20	6	M6	50	3.200	1147336
MS41SNF M8 A4	35	20	6	M8	50	3.150	1147340
MS41SNF M10 A4	35	20	8	M10	50	4.000	1147344
MS41SNF M12 A4	35	20	9.5	M12	50	4.550	1147348

Slide nut with spring for use with MS4121 und MS4141 profile rails

Slide nut

St ZL

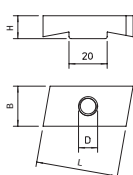
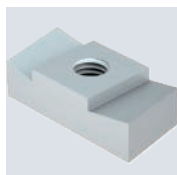


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 ZL	43	21	12	M6	50	6.700	1147156
MS50SN M8 ZL	43	21	12	M8	50	6.550	1147160
MS50SN M10 ZL	43	21	12	M10	50	6.350	1147164
MS50SN M12 ZL	43	21	12	M12	50	6.100	1147168

Slide nut for use with MS5030 profile rail

Slide nut

A4 2B

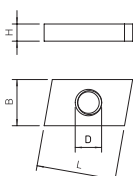
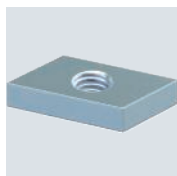


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
MS50SN M6 A4	43	21	12	M6	50	6.700	1147172
MS50SN M8 A4	43	21	12	M8	50	6.550	1147186
MS50SN M10 A4	43	21	12	M10	50	6.350	1147190
MS50SN M12 A4	43	21	12	M12	50	6.100	1147194

Slide nut for use with MS5030 profile rail

Slide nut

St ZL

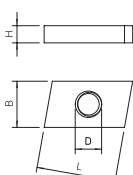
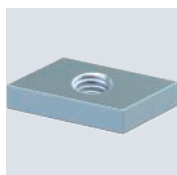


Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 ZL	26	16.5	4	M6	100	1.212	1147056
ACMSN M8 ZL	26	16.5	4	M8	100	1.640	1147060
ACMSN M10 ZL	26	16.5	4	M10	100	1.300	1147064

Slide nut for use with CM3015, CM3518 and AM3518 profile rails

Slide nut

A4 2B



Type	Length mm	Width mm	Height mm	Thread	Pack Piece	Weight kg/100 pc.	Item no.
ACMSN M6 A4	26	16.5	4	M6	100	1.650	1147076
ACMSN M8 A4	26	16.5	4	M8	100	1.600	1147080
ACMSN M10 A4	26	16.5	4	M10	100	1.500	1147084

Slide nut for use with CM3015, CM3518 and AM3518 profile rails

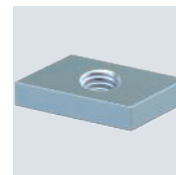
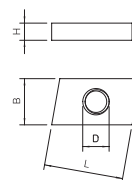


St ZL

Slide nut

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

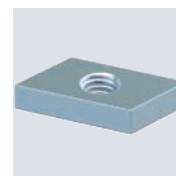
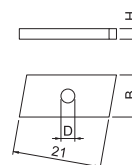


St ZL

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



Sleeves

St G

Connection sleeve

Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 G	M8	24	13	50	1.880	6410081
CSTR M10 G	M10	30	17	50	4.150	6410103
CSTR M12 G	M12	40	19	25	7.000	6410111

Connection sleeve with continuous internal thread.



VA 2B

Connection sleeve

Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
CSTR M8 A2	M8	24	13	50	1.880	6410154
CSTR M10 A2	M10	30	17	50	4.150	6410162

Connection sleeve with continuous internal thread.

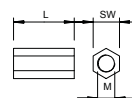


Zn G

Spacer sleeve

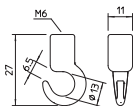
Type	Thread	Dim. L mm	SW mm	Pack Piece	Weight kg/100 pc.	Item no.
965 M6X20 G	M6	20	10	100	0.900	3415031
965 M6X25 G	M6	25	10	100	0.960	3415066
965 M6X30 G	M6	30	10	100	1.200	3415082
965 M6X40 G	M6	40	10	100	1.500	3415104
965 M6X50 G	M6	50	10	100	2.000	3415120
965 M8X20 G	M8	20	13	100	1.200	3415147
965 M8X30 G	M8	30	13	100	1.800	3415163

Continuous internal thread.



Ceiling hook

St G

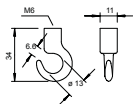


Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2081 K M6	M6	1.6	100	0.899	3460061

Ceiling hook with metric internal thread.

Ceiling hook

St G

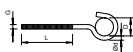
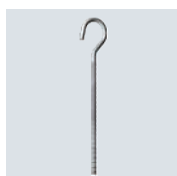


Type	Thread	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
2081 M6 G	M6	1.35	100	1.257	3460169

Ceiling hook with metric internal thread.

Ceiling hook

St G

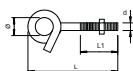
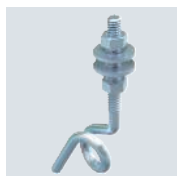


Type	Dim. L mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
867 M5X125 G	90	0.4	100	1.730	3470148
867 M6X 95 G	55	0.8	100	2.095	3470210
867 M6X125 G	85	0.8	100	2.760	3470237

Ceiling hook with long metric thread.

Ceiling hook

St G

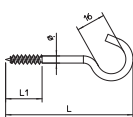
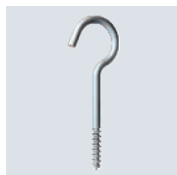


Type	Thread	Dim. d mm	Dim. L mm	Dim. L1 mm	Dimen- sion d Ø mm	Washer Ø mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
948 TG6	M6	6	70	46	13	18	1	25	5.000	3453820

Tightly wound ceiling hook. Including two large washers and nuts.

Ceiling hook

St G



Type	Material	Dim. Ø mm	Dim. L mm	Dim. L1 mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
915 3.9x50 G	3.9	50	20	0.15		100	0.724	3450058
915 3.9x60 G	3.9	60	20	0.15		100	0.800	3450066
915 3.9x70 G	3.9	70	20	0.15		100	0.879	3450074
915 3.9x80 G	3.9	80	20	0.15		100	0.913	3450082
915 3.9x90 G	3.9	90	20	0.15		100	1.076	3450090
915 3.9x100 G	3.9	100	20	0.15		100	1.187	3450104
915 4.3x120 G	4.3	120	24	0.2		100	1.662	3450120

Ceiling hook with rolled wood screw thread.

St	G
1	1
2	2
3	3
4	4
5	5
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97	97
98	98
99	99
100	100

TS ceiling hook

Technical drawing of the base plate (Fig. 1) showing dimensions: 27, 32, M6/M8, and 2.5.



TS ceiling hook with metric thread.

S hook

St	G
1	1
2	2
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4	4
5	5
6	6
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99	99
100	100

S hook

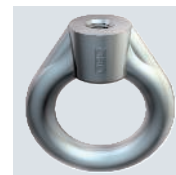


Connecting book of support clamps and suspension chains.

Eyelets

Zn G

Suspension eyelet



Suspension eyelet with metric thread.

Zn G

Ring eyelet

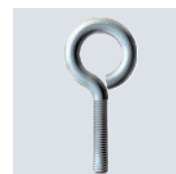
Technical drawing of a pulley (Fig. 10) showing front and side views. The front view (left) shows a pulley with a central hole of diameter d , an outer diameter of D , and a total height of L . The side view (right) shows the pulley's profile with a width of B and a base width of b .



Ring eyelet with metric internal thread.

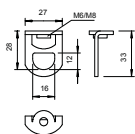
St	G
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Frame eyelet



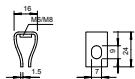
Frame eyelet M8 x 40 mm.

St G

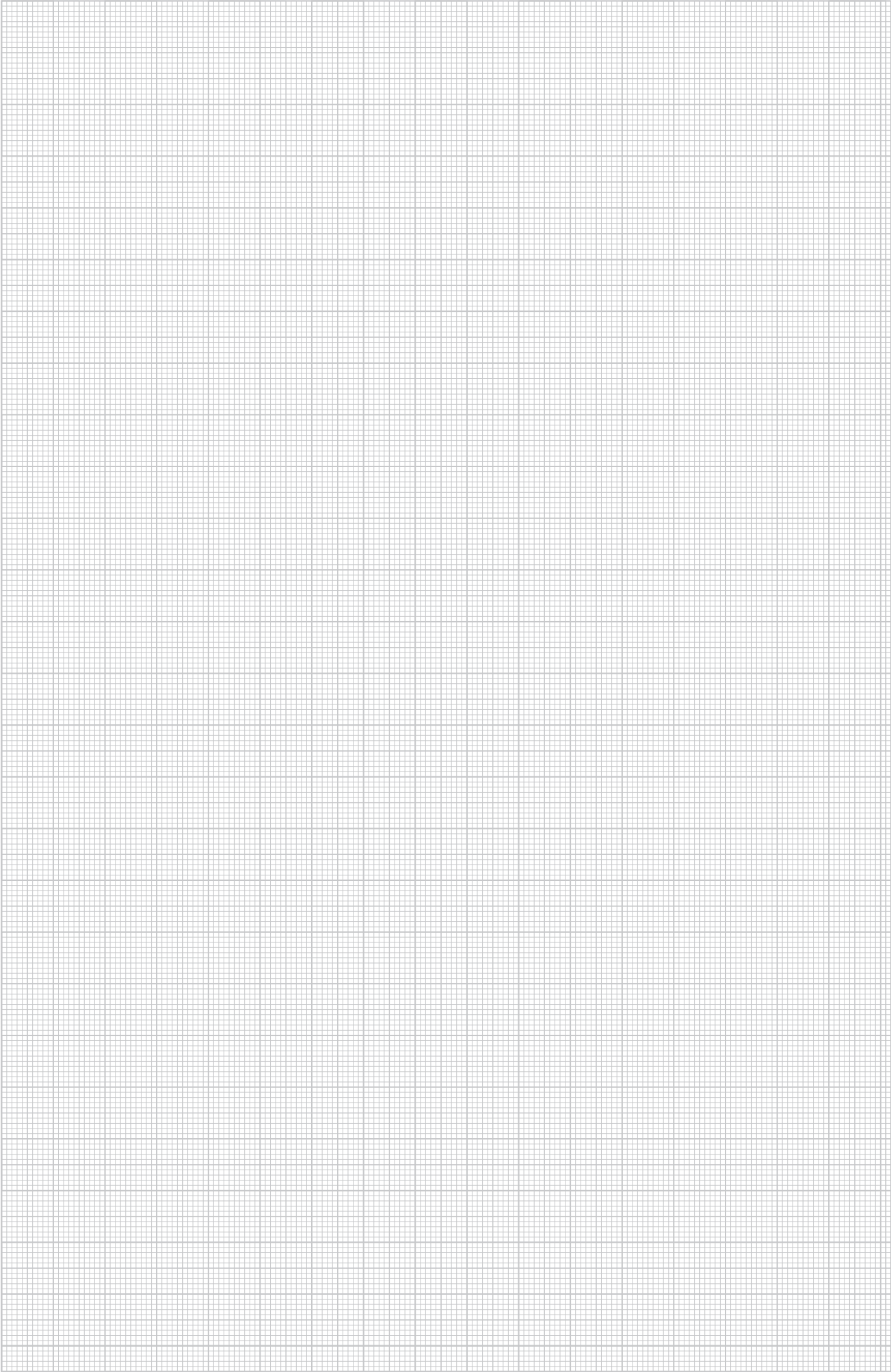


Suspension eyelet with interior thread.

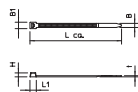
St G



Rabitz coupler with metric thread.



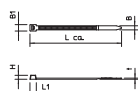
Cable tie, white



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

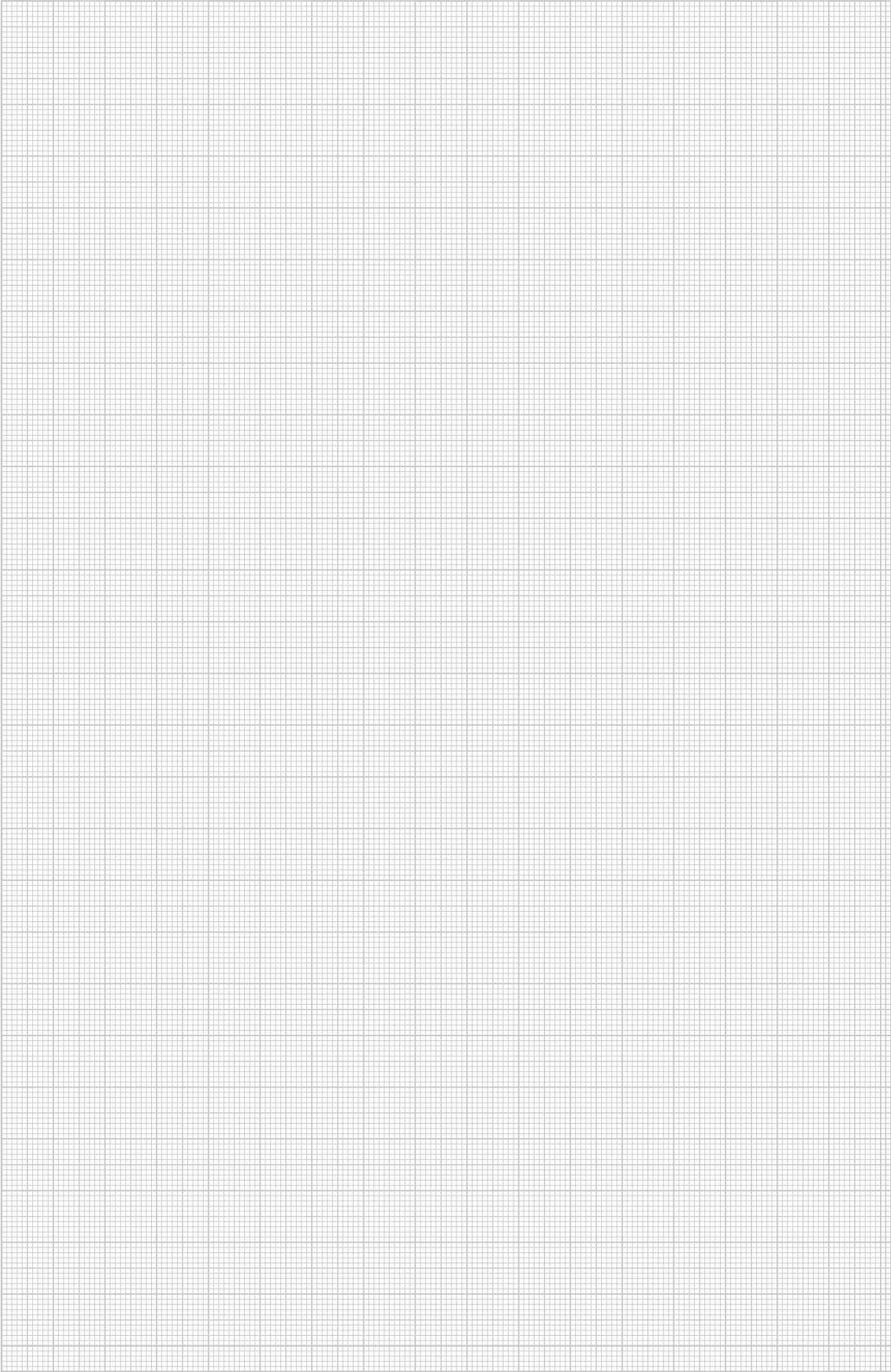
Cable ties are used for quick, uncomplicated fixing or bundling of cables and pipes to cable support systems or other mounting structures.

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.



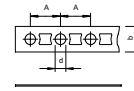
Breaking loads

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

Type	Dimension mm	Dim. d mm	Dim. A mm	per roll m	Pack Piece	Weight kg/100 pc.	Item no.
5055 I12 FS	12x1	5,2	14,4	10	1	73.000	1470124
5055 II17 FS	17x1	6,5	20	10	1	106.000	1470175
5055 III26 FS	26x1,2	8,5	25	10	1	204.500	1470264
5055 LI12 FS	12x0,75	5,2	14,4	10	1	59.000	1471120
5055 LII17 FS	17x0,75	6,5	20	10	1	84.200	1471171
5055 LIII26 FS	26x1	8,5	25	10	1	172.300	1471260

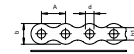


Perforated steel strap, in practical uncoiling box.



Perforated steel strap, ridged

Type	Dimension mm	Dim. d mm	Dim. A mm	per roll m	Pack Piece	Weight kg/100 pc.	Item no.
5062 I12 FS	12x1	5	14	10	1	69.000	1475126
5062 II17 FS	17x1	7	20	10	1	98.500	1475177
5062 III26 FS	26x1,2	9	25	10	1	183.000	1475266
5062 LI12 FS	12x0,75	5	14	10	1	57.000	1475622
5062 LII17 FS	17x0,75	7	20	10	1	73.000	1475673
5062 LIII26 FS	26x1	9	25	10	1	153.000	1475762

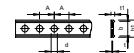


Perforated strap with wavy edges, in practical uncoiling box.



Perforated steel strap, plastic-coated

Type	Dimension 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



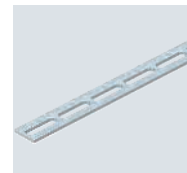
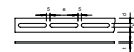
Perforated steel strap with PE plastic jacketing.

Slotted steel straps



Slotted steel strap in strips

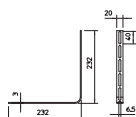
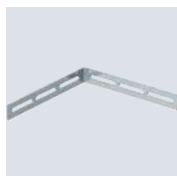
Type	Dimension mm	Hole size mm	Length mm	Pack m	Weight kg/100 m	Item no.
OSS 20x3 3M FT	20x3	6,5x40	3000	60	35.000	1465767
OSS 30x3 3M FT	30x3	8,5x60	3000	30	53.600	1465805
OSS 40x4 3M FT	40x4	8,5x70	3000	30	101.000	1465821



Perforated slotted steel strap in strips.



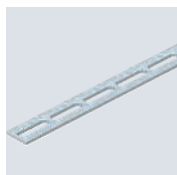
Slotted steel strap, bent



Type	Dimension mm	Pack Piece	Weight kg/100 pc.	Item no.
OSG 20X3 FT	20x3	25	15.800	6017371

Bent slotted steel strap for creation of bends and tees.

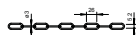
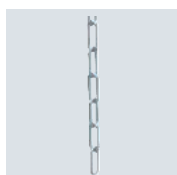
Slotted steel strap, rings



Type	Dimension mm	Pack m	Weight kg/100 m	Item no.
OSR 20x1.5 BK	20 x 1,5	200	18.000	1465600

In rings.

Suspension chain

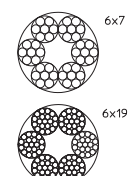


Type	Break load kN	Pack m	Weight kg/100 m	Item no.
K-C30 G	0.7	25	13.600	1488201

To suspend luminaire supports or other components.

Tensioning wire

Steel wire tensioning rope



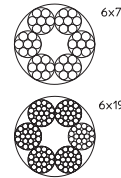
Type	Cable diameter mm	Break load kN	In rings m	Pack m	Weight kg/100 m	Item no.
957 2 G	2	2.35	50	50	1.430	5303202
957 3 G	3	5.29	50	50	3.220	5303206
957 4 G	4	9.41	50	50	5.720	5303214
957 5 G	5	14.7	50	50	8.940	5303222
957 6 G	6	21.1	50	50	12.900	5303230
957 8 G	8	34.8	50	50	22.900	5303257
957 10 G	10	54.4	50	50	35.700	5303265

Steel wire tensioning rope, galvanised with fibre inlay (hemp core).
Cable Ø 2–6 mm: round-stranded cable 6 x 7 according to DIN 3055.
Cable Ø 8–10 mm: round-stranded cable 6 x 19 according to DIN 3060.
Minimum break force 1770 N/mm².

VA 2B

Steel wire tensioning rope

Type	Cable diameter mm	Break load kN	In rings m	Pack m	Weight kg/100 m	Item no.
957 2 A4	2	2.35	50	50	1.430	5303179
957 3 A4	3	5.29	50	50	3.220	5303182
957 4 A4	4	9.41	50	50	5.720	5303185
957 5 A4	5	14.7	50	50	8.940	5303188
957 6 A4	6	21.1	50	50	12.900	5303191
957 8 A4	8	34.8	50	50	22.900	5303194
957 10 A4	10	54.4	50	50	35.700	5303197



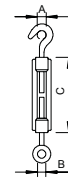
Cable Ø 2–6 mm: round-stranded cable 6 x 7 according to DIN 3055.
 Cable Ø 8–10 mm: round-stranded cable 6 x 19 according to DIN 3060.
 Minimum break force 1,770 N/mm².

St G

Tension jack

Type	Thread	Dim. A mm	Dim. B mm	Dim. C mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
945 M6 G	M6	9	8.5	110	225	5	8.642	5300037
945 M10 G	M10	14	13.5	125	7	5	33.650	5300053
945 M12 G	M12	16	15.5	125	7.5	5	53.000	5300061
945 M16 G	M16	22	19	170	12	5	84.000	5300088

With hook and eye, to DIN 1480.

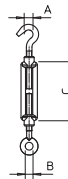


VA 2B

Tension jack

Type	Thread	Dim. A mm	Dim. B mm	Dim. C mm	Break load kN	Pack Piece	Weight kg/100 pc.	Item no.
945 M6 A4	M6	9	8.5	110	225	5	10.500	5300120
945 M10 A4	M10	14	13.5	125	7	5	28.000	5300124
945 M12 A4	M12	16	15.5	125	7.5	5	42.000	5300127
945 M16 A4	M16	22	19	170	12	5	100.000	5300132

With hook and eye, to DIN 1480.

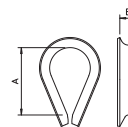


St G FT

Cable eye stiffener

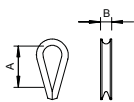
Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
946 3 G	3	23.5	3.5	25	0.210	5301033
946 4 G	4	28.5	5	25	0.390	5301041
946 5 G	5	30	6	25	0.660	5301009
946 6 G	6	33	7	25	0.840	5301068
946 8 G	8	39	9	10	1.880	5301084
946 10 FT	10	47.5	11	10	2.900	5301106

Cable eye stiffener to DIN 65457.



Cable eye stiffener

VA 2B

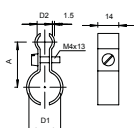


Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
946 3 A4	3	23.5	3.5	25	0.210	5301170
946 4 A4	4	28.5	5	25	0.390	5301172
946 5 A4	5	30	6	25	0.660	5301174
946 6 A4	6	33	7	25	0.840	5301176
946 8 A4	8	39	9	10	1.880	5301180
946 10 A4	10	47.5	11	10	2.900	5301184

Cable eye stiffener to DIN 65457.

Tensioning wire clip

St G

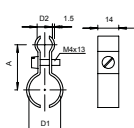


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
1020 11-16 G	11-16	50	1.420	1404164
1020 14-18 G	14-18	50	1.650	1404180
1020 18-28 G	19-28	50	2.000	1404288

To fasten cables to tensioning cables. With bolt M4x13.

Tensioning wire clip

VA 2B

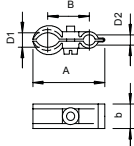


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
1020 11-16 A4	11-16	50	1.420	1404168
1020 14-18 A4	14-18	50	1.650	1404184
1020 18-28 A4	19-28	50	2.000	1404292

To fasten cables to tensioning cables. With V4A bolt M4x14.

Tensioning wire clip, polystyrene

PS

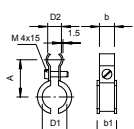


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
4024 9-16	9-16	100	0.460	2305151
4024 16-23	16-23	50	0.930	2305232

Bolt, steel, electrogalvanised, light grey.

Fix ISO tensioning wire clip

St FS



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
4021 K 6-13	6-13	100	1.295	2307618
4021 K 9-16	9-16	100	1.457	2307634

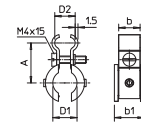
Metal clip with plastic insert, steel, electrogalvanised, polyethylene inserts.

VA 2B



Fix ISO tensioning wire clip

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
4021 K 6-13 A4	6-13	100	1.295	2307622
4021 K 9-16 A4	9-16	100	1.457	2307638

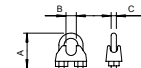


The cable and pipe fastenings of the special system include cable ties, fastening straps and installation strips, with which cable and pipe installations can be fastened to cable support systems such as cable or mesh cable trays or other mounting constructions. A complete tensioning wire system to suspend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

St G

Wire cable clamp

Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Dim. C mm	Pack Piece	Weight kg/100 pc.	Item no.
947 3 G	3	20	4	4	25	1.100	5302021
947 5 G	5	24	6	5	25	1.400	5302056
947 6 G	6	28	8	5	25	1.700	5302064
947 8 G	8	34	9	6	10	3.100	5302080
947 10 G	10	42	11	8	10	6.500	5302102

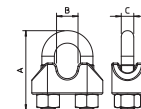


Wire cable clamp for fastening steel wire tensioning ropes.

VA 2B

Wire cable clamp

Type	For rope-Ø mm	Dim. A mm	Dim. B mm	Dim. C mm	Pack Piece	Weight kg/100 pc.	Item no.
947 3 A4	3	20	4	4	25	1.090	5302170
947 5 A4	5	24	6	5	25	1.500	5302174
947 6 A4	6	28	8	5	25	2.080	5302178
947 8 A4	8	34	9	6	10	3.390	5302182
947 10 A4	10	42	11	8	10	6.310	5302188



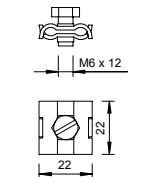
Wire cable clamp for fastening steel wire tensioning ropes.

St G

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.

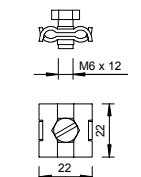


VA 2B

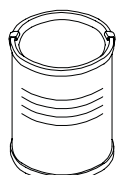
Wire cable clamp

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.



Impu-Fix ribbon conductor bonding agent

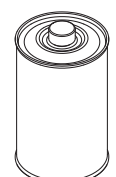


Type	Contents		Pack Piece	Weight kg/100 pc.	Item no.
	kg	ml			
509	0.65		1	70.000	2341018

Impu-Fix ribbon conductor bonding agent to stick clips and ribbon conductors to masonry and concrete.

Solvent mixtures

Solvent mixture



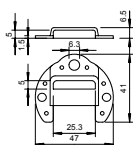
Type	Contents		Pack Piece	Weight kg/100 pc.	Item no.
	ml	kg			
508	1000		1	105.000	2341107

Thinning.
Solvent mixture to create an optimum processing consistency of Impu-Fix ribbon conductor quick adhesive and to clean the working material.

Accessories, adhesive mounting

Ceiling outlet

PS

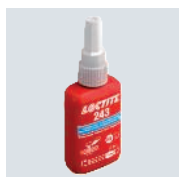


Type	Colour		Pack Piece	Weight kg/100 pc.	Item no.
	kg	ml			
510	Light grey		100	0.290	2236028

To fasten ribbon conductors.

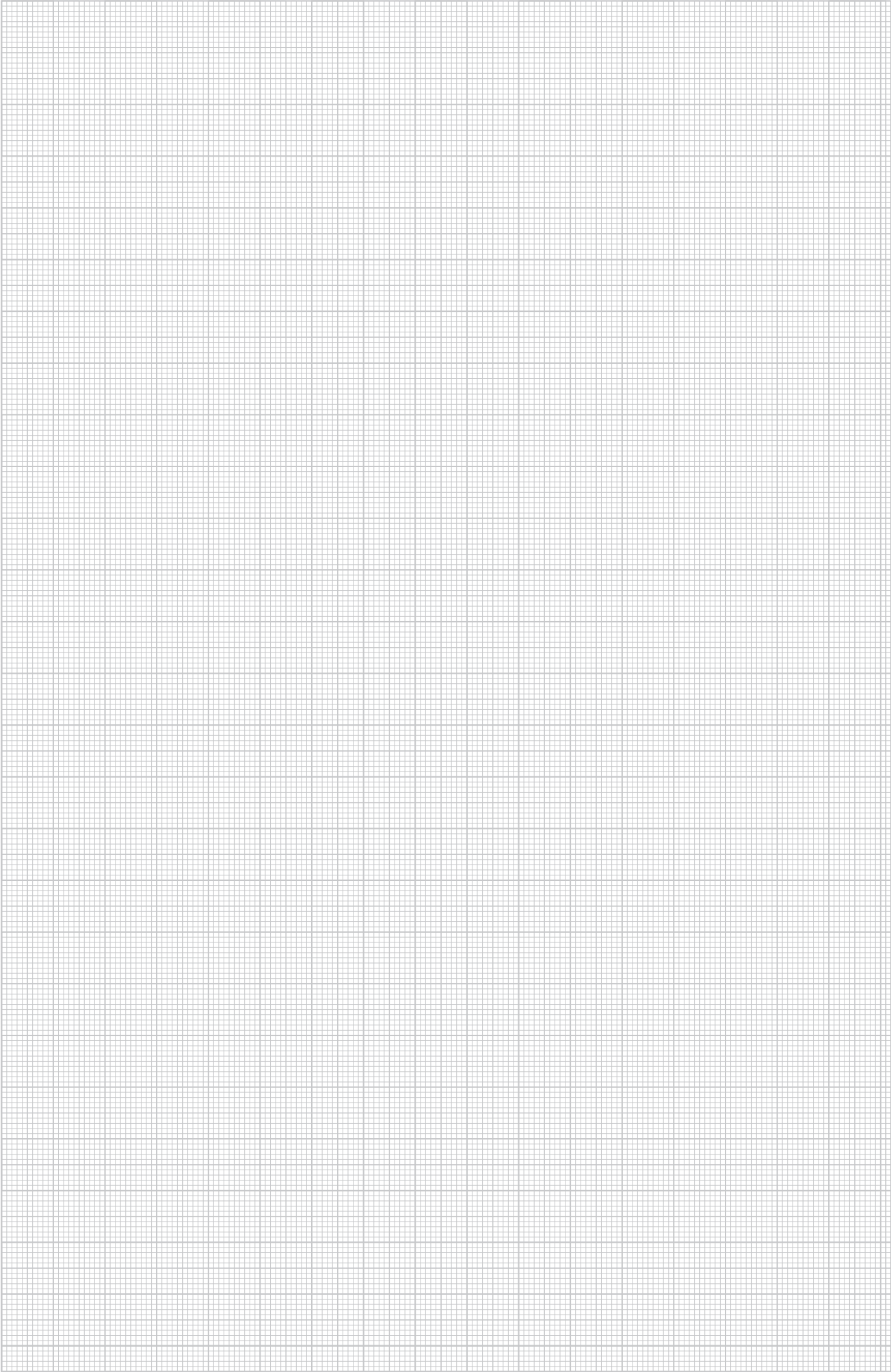
Screw-locking adhesive

Screw-locking adhesive



Type	Contents		Pack Piece	Weight kg/100 pc.	Item no.
	ml	kg			
Loctite 243	50		1	7.800	2362940

Medium strength bolt lock, suitable for all metal thread connections. (e.g. stainless steel, aluminium, galvanised surfaces). Prevents loosening due to vibrations. Connections can be removed using hand tools for maintenance.



Installation and fastening clips



Installation and fastening clips

	Quick clips	74
	Push-fit clips	84
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	U clamps	140
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	Cable tidies	164
	Pressure clips	172
	Accessories, cable tidies and pressure clips	178



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



PP



Quick clip

Type	Nominal size	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2955 M16	M16	Light grey	1200	100	0.252	2149004
2955 M20	M20	Light grey	1200	100	0.325	2149010
2955 M25	M25	Light grey	1200	100	0.430	2149016
2955 M32	M32	Light grey	600	50	0.630	2149022
2955 M40	M40	Light grey	600	50	0.835	2149028
2955 M50	M50	Light grey	300	25	1.454	2149034
2955 M63	M63	Light grey	240	20	2.203	2149040

OBO Quick clip, type 2955/...: For all metric steel armoured pipes, as well as light-duty and heavy-duty metric insulation pipes. Suitable for mounting the OBO Quick pipe.

Pipe centring aids allow optimal attachment of the pipe and automatically turn the clip into the correct position.

Universal fastening option; can be arranged with the OBO Multi-quick and starQuick clip.

Slot for side alignment during mounting with wood screw or knock-in anchor.

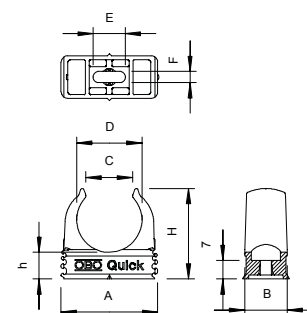
Size M16-M32 can be screwed onto an M6 thread.

Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.



Type	Nominal size	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm	Pull-out value N
2955 M16	M16	25.3	16	11.5	15.5	7	4.2	25	7	75
2955 M20	M20	30.3	16	14	19.4	9	4.2	29.5	7	90
2955 M25	M25	36.3	16	17.5	24.3	12	4.2	34	7	100
2955 M32	M32	46.3	16	22.4	31.4	12	4.2	42	7	120
2955 M40	M40	57.3	16	26	39.2	11	4.6	51	7	140
2955 M50	M50	70.3	18	32	49	12	6	63	7	165
2955 M63	M63	87.3	20	43	61.5	12	6	74.5	7	230

Dimensions



PP



Quick clip, black

Type	Nominal size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2955 M16 SW	M16	Jet black	100	0.252	2149559
2955 M20 SW	M20	Jet black	100	0.325	2149563
2955 M25 SW	M25	Jet black	100	0.430	2149567
2955 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

OBO Quick clip, type 2955/...: For all metric steel armoured pipes, as well as light-duty and heavy-duty metric insulation pipes. Suitable for mounting the OBO Quick pipe.

Pipe centring aids allow optimal attachment of the pipe and automatically turn the clip into the correct position.

Universal fastening option; can be arranged with the OBO Multi-quick and starQuick clip.

Slot for side alignment during mounting with wood screw or knock-in anchor.

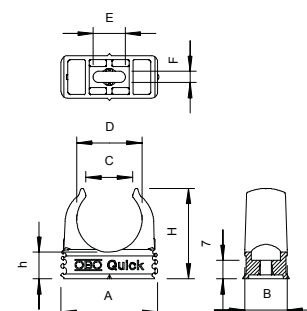
Size M16-M32 can be screwed onto an M6 thread.

Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.

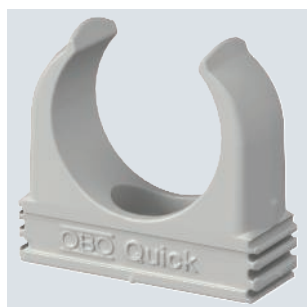


Type	Nominal size	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm	Pull-out value N
2955 M16 SW	M16	15	21.5	11.2	15.7	7	4.2	17.6	7	75
2955 M20 SW	M20	30.3	16	14	19.4	9	4.2	29.5	7	90
2955 M25 SW	M25	36.3	16	17.5	24.3	12	4.2	34	7	100
2955 M32 SW	M32	46.3	16	22.4	31.4	12	4.2	42	7	120
2955 M40 SW	M40	57.3	16	26	39.2	11	4.6	51	7	140
2955 M50 SW	M50	70.3	18	32	49	12	6	63	7	165
2955 M63 SW	M63	87.3	20	43	61.5	12	6	74.5	7	230

Dimensions



Quick Clip, flame-resistant, stone grey



Type	Nominal size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2955 F M16 STGR	M16	Stone grey	100	0.252	2149303
2955 F M20 STGR	M20	Stone grey	100	0.325	2149309
2955 F M25 STGR	M25	Stone grey	100	0.430	2149315
2955 F M32 STGR	M32	Stone grey	50	0.630	2149321
2955 F M40 STGR	M40	Stone grey	50	0.835	2149327
2955 F M50 STGR	M50	Stone grey	25	1.454	2149333
2955 F M63 STGR	M63	Stone grey	20	2.203	2149339

OBO Quick clip, type 2955F/...: flame-resistant version for all metric steel armoured pipes, as well as lightweight and heavyweight metric insulation pipes. Suitable for mounting the OBO Quick pipe.

Pipe centring aids allow optimal attachment of the pipe and automatically turn the clip to the correct position.

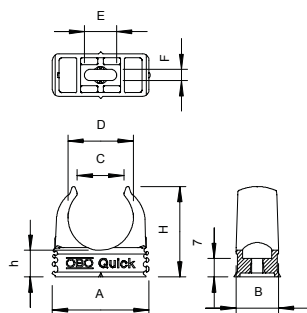
Universal fastening option; can be arranged with the OBO Multi-quick and starQuick clip.

Slot for side alignment during mounting with wood screw or knock-in anchor.

Size M16-M32 can be screwed onto an M6 thread.

Recommended fastening spacing 50–60 cm, for max. extraction values F at a room temperature of 20 °C, see the table.

Dimensions



Type	Nominal size	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm	Pull-out value N
2955 F M16 STGR	M16	25.3	16	11.5	15.5	7	4.2	25	7	75
2955 F M20 STGR	M20	30.3	16	14	19.4	9	4.2	29.5	7	90
2955 F M25 STGR	M25	36.3	16	17.5	24.3	12	4.2	34	7	100
2955 F M32 STGR	M32	46.3	16	22.4	31.4	12	4.2	42	7	120
2955 F M40 STGR	M40	57.3	16	26.0	39.2	11	4.6	51	7	140
2955 F M50 STGR	M50	70.3	18	32	49	12	6	63	7	165
2955 F M63 STGR	M63	87.3	20	43	61.5	12	6	74.5	7	230

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

OBO Quick clip, type 2955F/...: flame-resistant version for all metric steel armoured pipes, as well as light-duty and heavy-duty metric insulation pipes. Suitable for mounting the OBO Quick pipe.

Pipe centring aids allow optimum attachment of the pipe and automatically turn the clip into the correct position.

Universal fastening option; can be arranged with the OBO Multi-quick and starQuick clip.

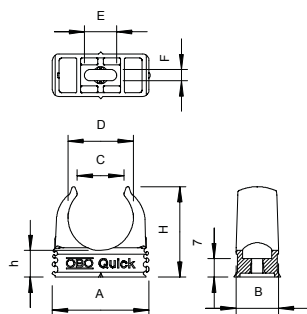
Slot for side alignment during mounting with wood screw or knock-in anchor.

Size M16-M32 can be screwed onto an M6 thread.

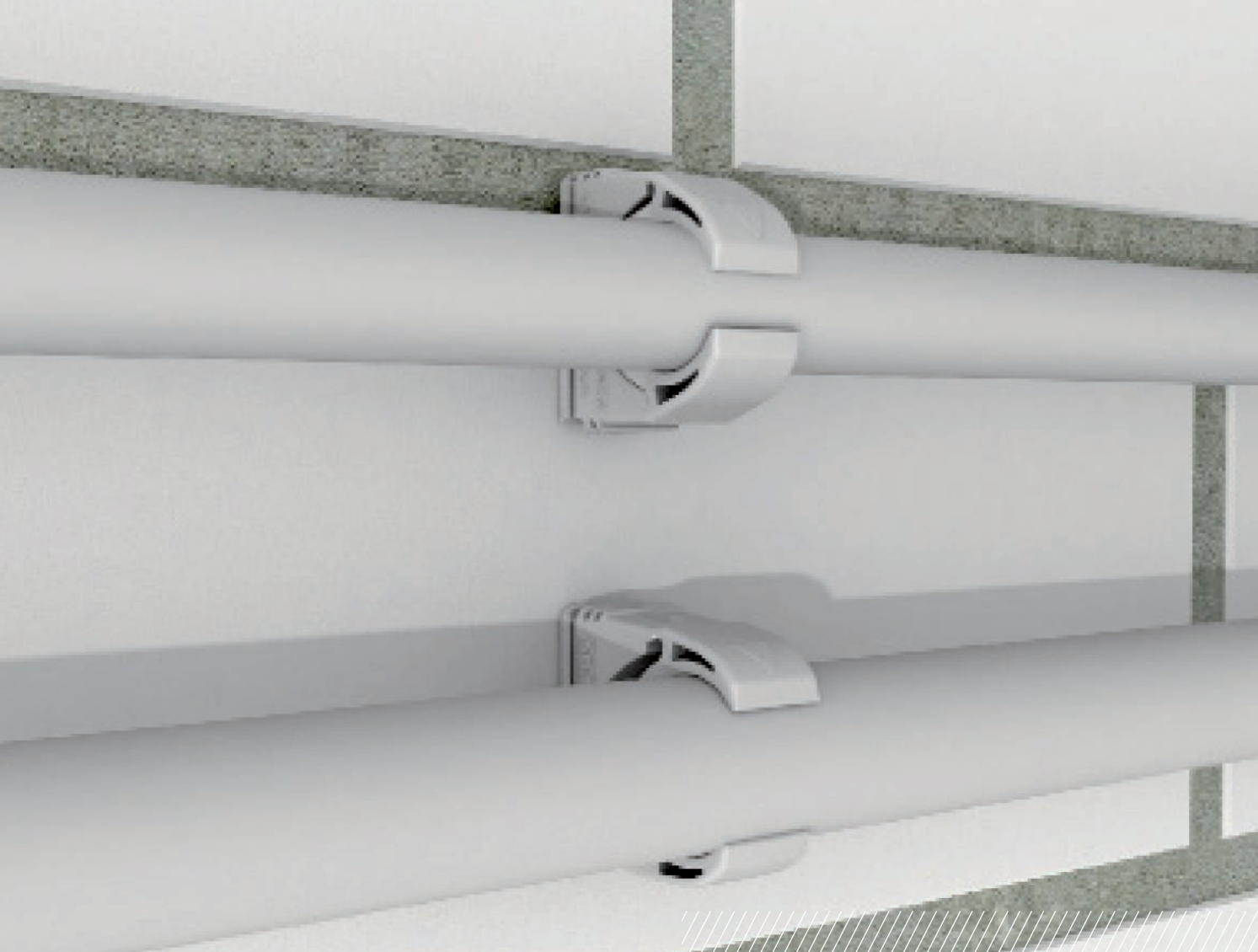
Recommended fastening spacing 50–60 cm.

For max. extraction values F at a room temperature of 20 °C, see the table.

Dimensions



Type	Nominal size	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm	Pull-out value N
2955 F M16 RW	M16	25.3	16	11.5	15.5	7	4.2	25	7	75
2955 F M20 RW	M20	30.3	16	14	19.4	9	4.2	29.5	7	90
2955 F M25 RW	M25	36.3	16	17.5	24.3	12	4.2	34	7	100
2955 F M32 RW	M32	46.3	16	22.4	31.4	12	4.2	42	7	120
2955 F M40 RW	M40	57.3	16	26.0	39.2	11	4.6	51	7	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 clips

Multi-Quick clip

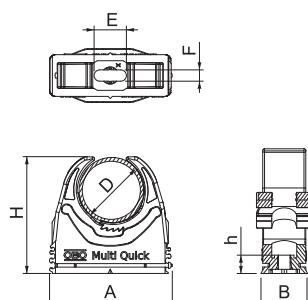
PA



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
M-Quick 15-19LGR	15 - 19	Light grey	100	0.545	2153106
M-Quick 18-22LGR	18.5 - 22.5	Light grey	100	0.760	2153114
M-Quick 25-28LGR	25 - 28.5	Light grey	50	1.170	2153130
M-Quick 31-37LGR	31 - 37	Light grey	25	1.780	2153157

PG and metric
Simple fastening
Secure locking
Radial arrangement
Simplified storage
Clamping ranges from 15-37 mm
Universally applicable
Fastening in rail type CL2008

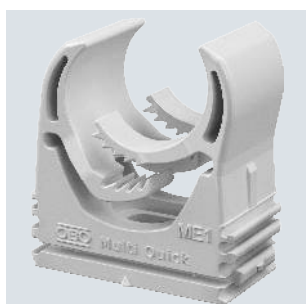
Dimensions



Type	Dim. A mm	Dim. B mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm
M-Quick 15-19LGR	27.5	15.5	8	4.1	32	7
M-Quick 18-22LGR	33	15.5	8	4.1	37.5	7
M-Quick 25-28LGR	43	15.5	8	4.1	46	7
M-Quick 31-37LGR	55	15.5	8	4.1	58	7

Multi-Quick clip, metric

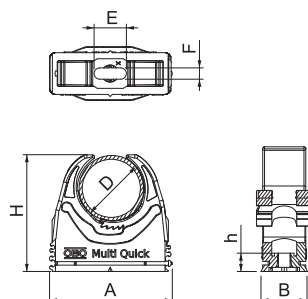
PA



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

- Multi-Quick metric
- Simple fastening
- Secure locking
- Radial arrangement
- Simplified storage
- Universally applicable

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm
M-Quick M20 LGR	27.5	15.5	8	4.1	32	7
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

PA



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SQ-10 LGR	9.5-12	Light grey	100	0.568	2146053
SQ-12 LGR	11.5-15	Light grey	100	0.540	2146061
SQ-15 LGR	14-16.5	Light grey	100	0.584	2146096
SQ-17 LGR	16-20	Light grey	100	0.640	2146118
SQ-20 LGR	19.5-23.5	Light grey	50	0.670	2146134
SQ-25 LGR	24-28	Light grey	50	0.970	2146207
SQ-28 LGR	27.5-32	Light grey	50	1.070	2146215
SQ-32 LGR	31.2-35.8	Light grey	50	1.230	2146258
SQ-36 LGR	35-40.1	Light grey	25	1.510	2146290
SQ-40 LGR	39.3-44.5	Light grey	25	1.710	2146320
SQ-47 LGR	44-50	Light grey	25	1.980	2146363
SQ-51 LGR	48-55	Light grey	15	2.250	2146444
SQ-59 LGR	58.5-65	Light grey	15	3.300	2146487

Can be arranged next to each other to size SQ-28.

Break load: with bolt DIN 96; diameter 4.5 mm, minimum break load at 20°.

starQuick clip Type SQ... a comprehensive programme of quality clips ideal for the use in outside areas such as parking garages, under bridges and on the exterior of steel structures. Climate conditions have no chance: the starQuick clips are made from UV weather-resistant polyamide.

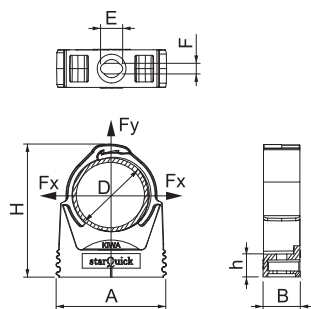
The starQuick clips are available in 13 different sizes with a clamping range of 10–65 mm, allowing a problem-free installation on different pipe systems. starQuick is suitable for plastic and metal pipes, as well as electrical and sanitary installations. The clips can be installed on the wall and ceiling. Mounting is amazingly fast and uncomplicated, without the use of tools.

Mounting of multiple pipes is also really easy:

- By arranging the single clips.
- By using the double bracket, allowing a firm hold and spacing by heavy loads.
- A rail system allows for an open spacing and numbering of the clips.

starQuick is reliable and can support heavy loads. A patented safety system guarantees that the pipes stay where they are. The pipe is secure in the all around closed clip.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. H mm	Break load kN
SQ-10 LGR	9.5-12	29	17	31.6	0.5
SQ-12 LGR	11.5-15	29	17	34.5	0.55
SQ-15 LGR	14-16.5	29	17	35.7	0.6
SQ-17 LGR	16-20	29	17	39.8	0.7
SQ-20 LGR	19.5-23.5	29	17	43.5	0.8
SQ-25 LGR	24-28	40	17	49.5	0.85
SQ-28 LGR	27.5-32	40	17	52.8	0.9
SQ-32 LGR	31.2-35.8	43	17	57.3	1
SQ-36 LGR	35-40.1	47	17	65.8	1.1
SQ-40 LGR	39.3-44.5	52	17	69.5	1.2
SQ-47 LGR	44-50	57	17	75.5	1.2
SQ-51 LGR	48-55	63	17	81	1.4
SQ-59 LGR	58.5-65	74	20	94.3	1.5

PP



Type	Nominal size	Clamping range D mm	Break load kN	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SQ-20 SW	20/23	19.5-23.5	0.8	Jet black	50	0.848	2146164

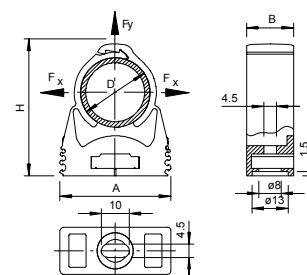
Cable brackets for isCon® conductors for mounting on the building structure. Can also be used in the first 1.5 m. Can be arranged next to each other. Made from a UV and weather-resistant polyamide.

starQuick clip, black



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. H mm	Break load kN
SQ-20 SW	19.5-23.5	29	17	43.5	0.8

Dimensions



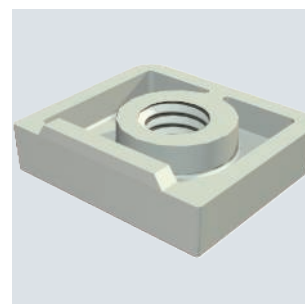
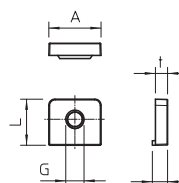
PC



Type	Nominal size	Dim. A mm	Dim. L mm	Dim. h mm	Dim. t mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
SQ M6	M6	17	15	5	4	Light grey	100	0.070	2146509

The starQuick nut was developed especially for the starQuick clip. Simply push into the intended opening of the clip. The nut is captive in the clip. Suitable for M6 threads.

starQuick nut

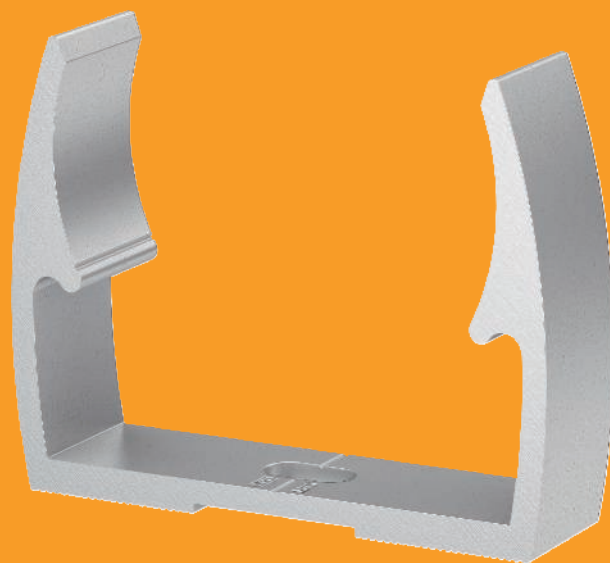




Quick clip, aluminium

OBO's aluminium Quick clip offers installers a high-quality means of fastening electrical installation pipes. The ingenious design of this product allows fast, easy installation on walls and ceilings. The clip boasts impressively high holding forces.

- Strong clip holding forces thanks to optimised geometry
- Centre mark around slot for easy alignment
- Pipe centring aids for easy insertion of the pipe
- Modern, attractive design



Alu

Quick clip, aluminium

Type	Nominal size	Pack Piece	Weight kg/100 pc.	Item no.
ALQ M16	16	100	0.780	2149916
ALQ M20	20	100	0.900	2149920
ALQ M25	25	100	1.110	2149925
ALQ M32	32	50	1.600	2149932
ALQ M40	40	50	2.400	2149940
ALQ M50	50	25	2.730	2149950
ALQ M63	63	20	3.340	2149963

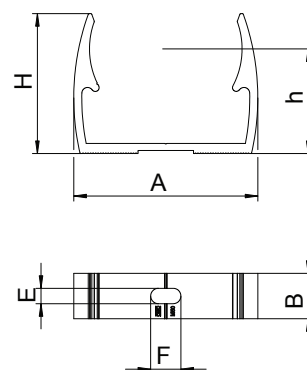
OBO Quick clip, type ALQ M, for all metric ALU pipe systems, as well as light-duty and heavy-duty insulation pipes. Suitable for mounting the OBO pipe system, material: aluminium. Pipe centring aids allow optimal attachment of the pipe and automatically turn the clip into the correct position.

Slot for side alignment during mounting with wood screw or knock-in anchor.

Recommended fastening spacing 50–60 cm.

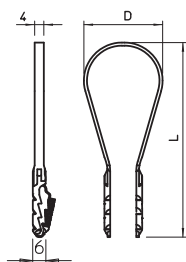
Type	Dim. A mm	Dim. B mm	Dim. E mm	Dim. F mm	Dim. H mm	Dim. h mm
ALQ M16	22	18	5.1	9.5	25	18.5
ALQ M20	25	18	5.1	9.5	27.5	20
ALQ M25	31	18	5.1	9.5	30	22
ALQ M32	39	18	5.1	9.5	35	26
ALQ M40	50	18	6.1	12	42	30.5
ALQ M50	60	18	6.1	12	46.5	33.5
ALQ M63	73	18	6.1	12	55.5	41.5

Dimensions



BKS clamp clip

PA

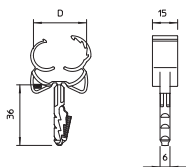


Type	Clamping range D mm	Dim. L mm	Dim. D mm	Pull-out value N	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1973 3-13 LGR	3-13	52	13	500	Light grey	100	0.089	2148803
1973 8-28 LGR	8-28	70	27	500	Light grey	100	0.116	2148846
1973 20-40 LGR	20-40	89	36	500	Light grey	100	0.150	2148862

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.

Click-snap clip

PA

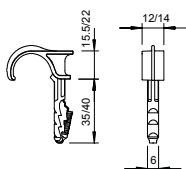


Type	Clamping range D mm	Breaking load for concrete B25 N	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1976 12-15	12-15.5	190 N	Light grey	100	0.245	2148501
1976 16-21	16-21.5	500 N	Light grey	100	0.443	2148528
1976 22-28	22.5-28.5	500 N	Light grey	100	0.781	2148536

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.

Single push-fit clip

PA

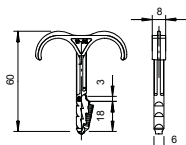


Type	Clamping range D mm	Drill hole Ø mm	Drill hole depth mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1974 16-23	16-23	6	40	Light grey	100	0.263	2197804
1974 22-30	22-30	6	40	Light grey	100	0.446	2197812

These push-fit clips are used when installing cables and pipes on walls and ceilings and when running flexible pipes on concrete and in the screed. The single push-fit clips can be used instead of nail clips in concrete and aerated concrete. The advantage of the push-fit clips is that they only have to be pushed into the drilled hole. Anchors and bolts are not needed.

Double push-fit clip

PA



Type	Clamping range D mm	Drill hole Ø mm	Drill hole depth mm	Breaking load for concrete B25 N	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1974 2X4-12	4-12	6	40	90	Light grey	100	0.128	2197855
1974 2X12-25	12-25	6	40	120	Light grey	100	0.282	2197863

These push-fit clips are used when installing cables and pipes on walls and ceilings and when running flexible pipes on concrete and in the screed. The double push-fit clips can be used instead of nail clips in concrete and aerated concrete. The advantage of the push-fit clips is that they only have to be pushed into the drilled hole. Anchors and bolts are not needed.

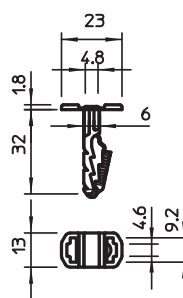
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Push-fit anchor for cable ties

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.



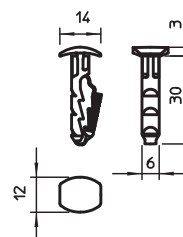
PA



Push-fit anchor with mushroom head

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.



Cable and pipe spacer clips

Safe fastening of cables and pipe systems on walls, on floors and on ceilings. The distance from the fastening substrate can be adjusted variably using the thread on the screw or a custom-length threaded rod. M6 bolt ties, angler anchors or Sprint screws (to be

ordered separately) are required for fastening. Tested and approved in systems for maintaining electrical functionality of classes E30 to E90 according to DIN 4102 Part 12.



**Cable and pipe spacer clip 732
with M6 threaded connection**

E30 E90



Cable and pipe spacer clip 733

St	G			
E30	E60	E90		



Spacer clip 732



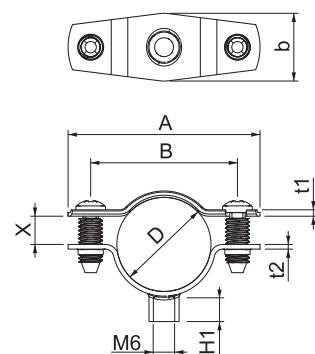
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 G	5-6	25	1.136	1362404
ASG 732 7 G	6-7	25	1.341	1362406
ASG 732 8 G	7-8	25	1.349	1362408
ASG 732 10 G	8-10	25	1.504	1362410
ASG 732 12 G	10-12	25	1.567	1362412
ASG 732 14 G	12-14	25	1.638	1362414
ASG 732 17 G	14-17	25	1.793	1362417
ASG 732 20 G	17-20	25	1.895	1362420
ASG 732 25 G	20-25	25	2.145	1362424
ASG 732 30 G	25-30	20	3.157	1362428
ASG 732 36 G	30-36	20	3.664	1362432
ASG 732 44 G	36-44	20	4.002	1362436
ASG 732 53 G	44-53	20	4.713	1362440
ASG 732 63 G	53-63	20	5.231	1362444

Spacer clip for the installation of pipes and cables on walls, 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	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. H1 mm
ASG 732 6 G	5-6	35	23	1.5	18	1	1.25	6.5
ASG 732 7 G	6-7	35	23	1.5	18	1	1.25	6.5
ASG 732 8 G	7-8	35	23	1.5	18	1	1.25	6.5
ASG 732 10 G	8-10	37	25	3	18	1	1.25	6.5
ASG 732 12 G	10-12	39	27	3	18	1	1.25	6.5
ASG 732 14 G	12-14	41	29	3	18	1	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 clip 732

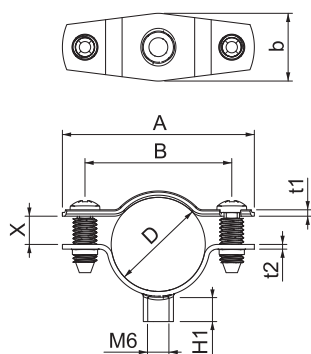


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 FT	5-6	25	1.398	1362354
ASG 732 7 FT	6-7	25	1.415	1362356
ASG 732 8 FT	7-8	25	1.424	1362358
ASG 732 10 FT	8-10	25	1.585	1362360
ASG 732 12 FT	10-12	25	1.653	1362362
ASG 732 14 FT	12-14	25	1.729	1362364
ASG 732 17 FT	14-17	25	1.892	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
ASG 732 6 FT	5-6	35	23	1.5	18	1	1.25	6.5
ASG 732 7 FT	6-7	35	23	1.5	18	1	1.25	6.5
ASG 732 8 FT	7-8	35	23	1.5	18	1	1.25	6.5
ASG 732 10 FT	8-10	37	25	3	18	1	1.25	6.5
ASG 732 12 FT	10-12	39	27	3	18	1	1.25	6.5
ASG 732 14 FT	12-14	41	29	3	18	1	1.25	6.5
ASG 732 17 FT	14-17	44	32	4.5	18	1	1.25	6.5
ASG 732 20 FT	17-20	47	35	4.5	18	1	1.25	6.5
ASG 732 25 FT	20-25	51	39	7.5	18	1	1.25	6.5
ASG 732 30 FT	25-30	59	45	7.5	18	1.5	1.5	6.5
ASG 732 36 FT	30-36	65	51	9	18	1.5	1.5	6.5
ASG 732 44 FT	36-44	73	59	12	18	1.5	1.5	6.5
ASG 732 53 FT	44-53	84	70	13.5	18	1.5	1.5	6.5
ASG 732 63 FT	53-63	94	80	15	18	1.5	1.5	6.5



VA

E30 E60 E90



Spacer clip 732



Installation and fastening clips



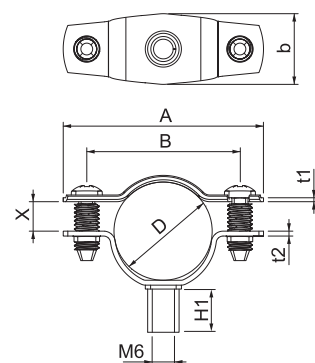
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 A2	5-6	25	1.537	1362622
ASG 732 7 A2	6-7	25	1.553	1362624
ASG 732 8 A2	7-8	25	1.561	1362626
ASG 732 10 A2	8-10	25	1.749	1362628
ASG 732 12 A2	10-12	25	1.796	1362630
ASG 732 14 A2	12-14	25	1.859	1362632
ASG 732 17 A2	14-17	25	2.007	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	Dimen- sion t1 mm	Dimen- sion 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 732

VA

E30

E60

E90

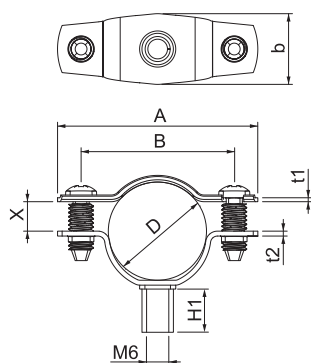


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASG 732 6 A4	5-6	25	1.558	1362454
ASG 732 7 A4	6-7	25	1.574	1362456
ASG 732 8 A4	7-8	25	1.582	1362458
ASG 732 10 A4	8-10	25	1.773	1362460
ASG 732 12 A4	10-12	25	1.821	1362462
ASG 732 14 A4	12-14	25	1.885	1362464
ASG 732 17 A4	14-17	25	2.035	1362467
ASG 732 20 A4	17-20	25	2.139	1362469
ASG 732 25 A4	20-25	25	2.394	1362472
ASG 732 30 A4	25-30	20	3.370	1362474
ASG 732 36 A4	30-36	20	3.782	1362478
ASG 732 44 A4	36-44	20	4.158	1362482
ASG 732 53 A4	44-53	20	4.851	1362486
ASG 732 63 A4	53-63	20	5.379	1362489

Spacer clip for the installation of pipes and cables on walls, 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
ASG 732 6 A4	5-6	35	23	1.5	18	1	1.25	12
ASG 732 7 A4	6-7	35	23	1.5	18	1	1.25	12
ASG 732 8 A4	7-8	35	23	1.5	18	1	1.25	12
ASG 732 10 A4	8-10	37	25	3	18	1	1.25	12
ASG 732 12 A4	10-12	39	27	3	18	1	1.25	12
ASG 732 14 A4	12-14	41	29	3	18	1	1.25	12
ASG 732 17 A4	14-17	44	32	4.5	18	1	1.25	12
ASG 732 20 A4	17-20	47	35	4.5	18	1	1.25	12
ASG 732 25 A4	20-25	51	39	7.5	18	1	1.25	12
ASG 732 30 A4	25-30	59	45	7.5	18	1.5	1.5	12
ASG 732 36 A4	30-36	65	51	9	18	1.5	1.5	12
ASG 732 44 A4	36-44	73	59	12	18	1.5	1.5	12
ASG 732 53 A4	44-53	84	70	13.5	18	1.5	1.5	12
ASG 732 63 A4	53-63	94	80	15	18	1.5	1.5	12



St	G
E30	E60 E90

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, ceiling 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.

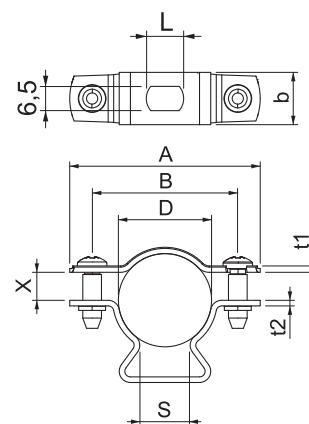
Approved for the maintenance of electrical function to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90 (except ALU).

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 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

Spacer clip 733



Dimensions



Spacer clip 733

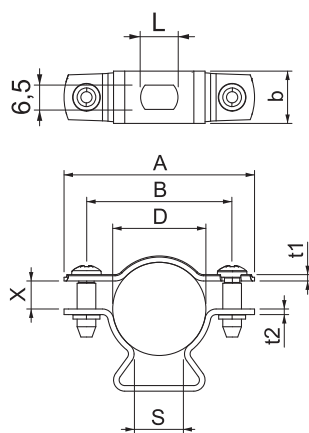


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 FT	8-10	25	1.883	1362704
ASL 733 12 FT	10-12	25	1.951	1362706
ASL 733 14 FT	12-14	25	2.035	1362708
ASL 733 17 FT	14-17	25	2.206	1362712
ASL 733 20 FT	17-20	25	2.315	1362714
ASL 733 25 FT	20-25	25	2.540	1362718
ASL 733 30 FT	25-30	20	3.567	1362722
ASL 733 36 FT	30-36	20	3.956	1362726
ASL 733 44 FT	36-44	20	4.356	1362730
ASL 733 53 FT	44-53	20	5.850	1362734
ASL 733 63 FT	53-63	20	6.477	1362738

Spacer clip for the installation of pipes and cables on walls, ceiling 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).

Dimensions



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

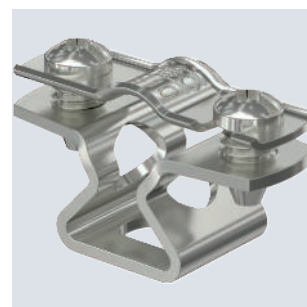


VA

E30 E60 E90



Spacer clip 733



Installation and fastening clips

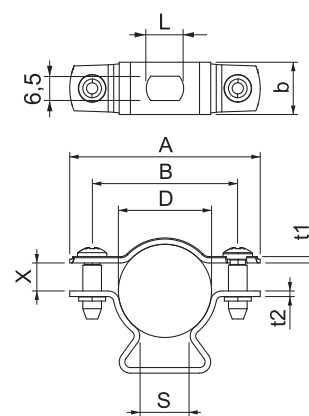


Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Fastening via slot. From the clip size of 20 suitable for the installation with a nail device or bolt-firing device.

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 A2	37	25	3	1	1.5	10	16	5.5
ASL 733 12 A2	39	27	3	1	1.5	10	14	6.9
ASL 733 14 A2	41	29	3	1	1.5	10	14	8
ASL 733 17 A2	44	32	4.5	1	1.5	10	14	9.5
ASL 733 20 A2	47	35	4.5	1	1.5	10	14	12
ASL 733 25 A2	51	39	7.5	1	1.5	10	14	13.5
ASL 733 30 A2	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 A2	65	51	9	1.5	1.5	10	16	20
ASL 733 44 A2	73	59	12	1.5	1.5	10	16	24
ASL 733 53 A2	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 A2	94	80	15	1.5	2	10	16	35.3

Dimensions



Spacer clip 733

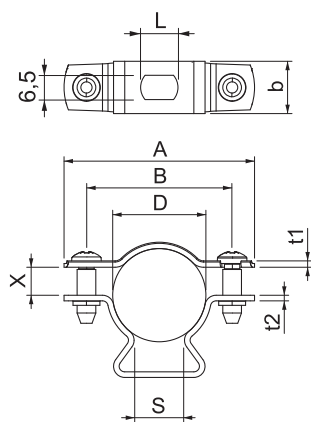


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
ASL 733 10 ALU	8-10	25	0.917	1362804
ASL 733 12 ALU	10-12	25	0.938	1362806
ASL 733 14 ALU	12-14	25	0.965	1362808
ASL 733 17 ALU	14-17	25	1.062	1362812
ASL 733 20 ALU	17-20	25	1.097	1362814
ASL 733 25 ALU	20-25	25	1.254	1362818
ASL 733 30 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).

Dimensions



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

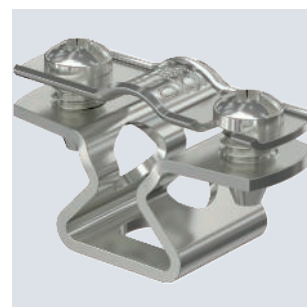


VA

E30 E60 E90



Spacer clip 733



Installation and fastening clips

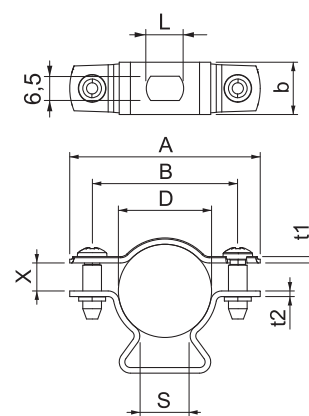


Spacer clip for the installation of pipes and cables on walls, ceiling and floors. With self-locking upper part. Fastening via slot. From the clip size of 20 suitable for the installation with a nail device or bolt-firing device.

Approved for the maintenance of electrical function to DIN 4102 Part 12, maintenance of electrical function classes E30 to E90 (except ALU).

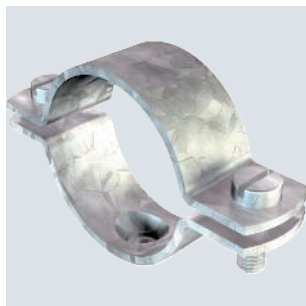
Type	Dim. A mm	Dim. B mm	Dim. x mm	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. L mm	Dim. b mm	Dimen- sion s mm
ASL 733 10 A4	37	25	3	1	1.5	10	16	5.5
ASL 733 12 A4	39	27	3	1	1.5	10	14	6.9
ASL 733 14 A4	41	29	3	1	1.5	10	14	8
ASL 733 17 A4	44	32	4.5	1	1.5	10	14	9.5
ASL 733 20 A4	47	35	4.5	1	1.5	10	14	12
ASL 733 25 A4	51	39	7.5	1	1.5	10	14	13.5
ASL 733 30 A4	59	45	7.5	1.5	1.5	10	16	16.5
ASL 733 36 A4	65	51	9	1.5	1.5	10	16	20
ASL 733 44 A4	73	59	12	1.5	1.5	10	16	24
ASL 733 53 A4	84	70	13.5	1.5	2	10	16	29.5
ASL 733 63 A4	94	80	15	1.5	2	10	16	35.3

Dimensions



Screw-in spacer clip, heavy-duty version M6

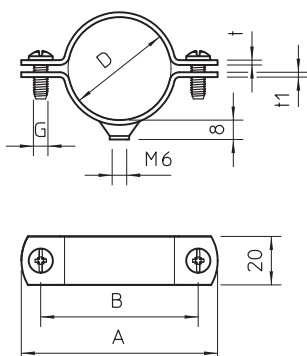
St FT



Type	Clamping range D mm	Size	For pipe Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
2900WM6 13.5 FT	12.5-13.5	1/4"	—	25	2.860	1385003
2900WM6 17 FT	16-17	3/8"	M16	25	4.912	1385011
2900WM6 21.5 FT	19-21.5	1/2"	M20	25	5.104	1385038
2900WM6 27 FT	24.5-27	3/4"	M25	25	5.600	1385054
2900WM6 33.5 FT	30.5-33.5	1"	M32	25	6.144	1385062
2900WM6 42.5 FT	39.5-42.5	1 1/4"	M40	25	7.644	1385089
2900WM6 48.5 FT	45.5-48.5	1 1/2"	M50	25	8.872	1385119
2900WM6 54 FT	51-54	1 3/4"	—	20	10.400	1385127
2900WM6 60 FT	56-60	2"	M63	15	11.720	1385135

Can be screwed onto M6 thread. Size 27 FT is suitable for M25. Size 42.5 FT is suitable for M40. Size 48.5 FT is suitable for M50. Size 60 FT is suitable for M63.

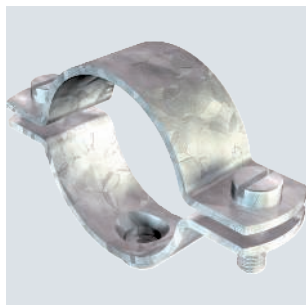
Dimensions



Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. t mm	Dim. t1 mm	Thread
2900WM6 13.5 FT	48	32	13.5	2	2	M6
2900WM6 17 FT	52	36	17	2	2	M6
2900WM6 21.5 FT	56	40	21.5	2	2	M6
2900WM6 27 FT	62	46	27	2	2	M6
2900WM6 33.5 FT	70	54	33.5	2	2	M6
2900WM6 42.5 FT	83	67	42.5	2	2	M6
2900WM6 48.5 FT	88	72	48.5	2.5	2	M6
2900WM6 54 FT	96	80	54	2.5	2.5	M6
2900WM6 60 FT	105	89	60	2.5	2.5	M6

Screw-in spacer clip, heavy-duty version M8

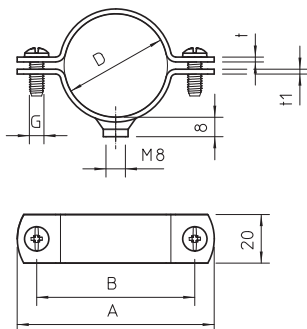
St FT



Type	Clamping range D mm	Size	For pipe Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
2900WM8 17 FT	16-17	3/8"	M16	25	5.040	1387014
2900WM8 21.5 FT	19-21.5	1/2"	M20	25	5.768	1387030
2900WM8 27 FT	24.5-27	3/4"	M25	25	6.144	1387057
2900WM8 33.5 FT	30.5-33.5	1"	M32	25	6.864	1387065
2900WM8 42.5 FT	39.5-42.5	1 1/4"	M40	25	9.000	1387081
2900WM8 48.5 FT	45.5-48.5	1 1/2"	M50	25	9.284	1387111
2900WM8 60 FT	56-60	2"	M63	15	11.346	1387138
2900WM8 75.5 FT	71.5-75.5	2 1/2"	M80	50	21.000	1387154
2900WM8 88 FT	83-88	3"	M95	50	23.800	1387170

Can be screwed onto M8 thread. Size 27 FT is suitable for M25. Size 42.5 FT is suitable for M40. Size 48.5 FT is suitable for M50. Size 60 FT is suitable for M63.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. t mm	Dim. t1 mm	Thread
2900WM8 17 FT	52	36	17	2.5	2	M8
2900WM8 21.5 FT	56	40	21.5	2.5	2	M8
2900WM8 27 FT	62	46	27	2.5	2	M8
2900WM8 33.5 FT	70	54	33.5	2.5	2	M8
2900WM8 42.5 FT	81	65	42.5	2.5	2	M8
2900WM8 48.5 FT	88	74	48.3	2.5	2.5	M8
2900WM8 60 FT	105	89	60	2.5	2.5	M8
2900WM8 75.5 FT	125	105	75.5	3	3	M8
2900WM8 88 FT	138	118	88	3	3	M8

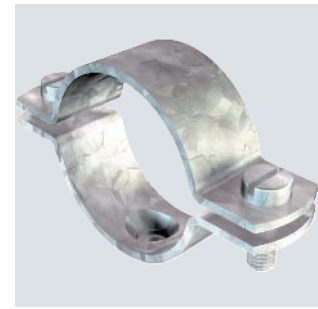


St FT

Screw-in spacer clip, heavy-duty version M10

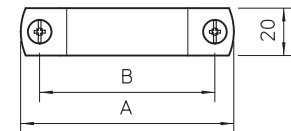
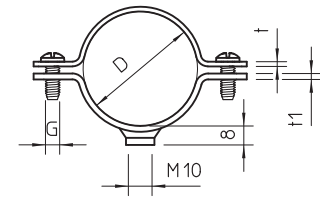
Type	Clamping range D mm	Size	For pipe Ø mm	Pack Piece	Weight kg/100 pc.	Item no.
2900WM10 21.5 FT	19-21.5	1/2"	M20	25	5.768	1388037
2900WM10 27 FT	24.5-27	3/4"	M25	25	6.144	1388053
2900WM10 33.5 FT	30.5-33.5	1"	M32	25	6.864	1388061
2900WM10 48.5 FT	45.5-48.5	1 1/2"	M50	25	9.284	1388118
2900WM10 60 FT	56-60	2"	M63	15	11.346	1388134

Can be screwed onto M10 thread. Size 27 FT is suitable for M25. Size 48.5 FT is suitable for M50. Size 60 FT is suitable for M63.



Type	Dim. A mm	Dim. B mm	Dim. t mm	Dimension t1 mm	Thread
2900WM10 21.5 FT	56	40	2	2.5	M10
2900WM10 27 FT	62	46	2	2.5	M10
2900WM10 33.5 FT	70	54	2	2.5	M10
2900WM10 48.5 FT	88	72	2	2.5	M10
2900WM10 60 FT	105	89	2.5	2.5	M10

Dimensions



St G

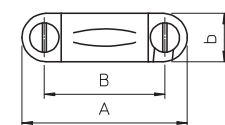
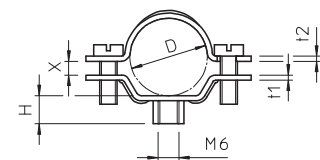
Screw-in spacer clip, universal

Type	Clamping range D mm	Size	Bolt	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2900 M6 13-16 G	13.5-16	M16	M5 x 14	500	50	2.280	1383094
2900 M6 16-19 G	16.5-19	Pg 11	M5 x 14	500	50	2.320	1383116
2900 M6 18-21 G	18-21	M20	M5 x 14	500	50	2.340	1383132
2900 M6 19-23 G	19-23	Pg 16	M5 x 14	500	50	2.400	1383167
2900 M6 24-29 G	24-29	M25	M5 x 14	400	50	3.320	1383213
2900 M6 33-38 G	33-38	Pg 29	M5 x 14	250	25	5.830	1383310
2900 M6 30-34 G	30-34	M32	M5 x 14	50	50	4.950	1383299
2900 M6 39-42 G	39-42	M40	M5 x 16	300	25	5.490	1383418
2900 M6 43-48 G	43-48	Pg 36	M5 x 14	240	20	6.330	1383361
2900 M6 49-55 G	49-55	M50	M6 x 15	240	20	9.300	1383426
2900 M6 54-60 G	54-60	Pg 48	M6 x 15	240	20	8.970	1383485
2900 M6 61-64 G	61-64	M63	M6 x 16	240	20	8.090	1383507

With M6 thread.

Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. b mm	Dimension t1 mm	Dimension t2 mm	Dim. H mm	Dim. x mm
2900 M6 13-16 G	13.5-16	48	35	14	1.5	1.5	9	2.2
2900 M6 16-19 G	16.5-19	48	35	14	1.5	1.5	9	2.6
2900 M6 18-21 G	18-21	48	35	14	1.5	1.5	9	2.9
2900 M6 19-23 G	19-23	48	35	14	1.5	1.5	9	4
2900 M6 24-29 G	24-29	60	47	14	1.5	2	7.5	4.6
2900 M6 33-38 G	33-38	68	54	16	2	2	6.5	3.5
2900 M6 30-34 G	30-34	79	64	16	2	2	8	5
2900 M6 39-42 G	39-42	79	64	16	2	2	6.5	5
2900 M6 43-48 G	43-48	79	64	16	2	2	8	5
2900 M6 49-55 G	49-55	102	86	18	2	2	8	5.5
2900 M6 54-60 G	54-60	102	86	18	2	2	8	6.3
2900 M6 61-64 G	61-64	106.5	90.5	18	2	2	6.5	6

Dimensions



Screw-in spacer clip, universal

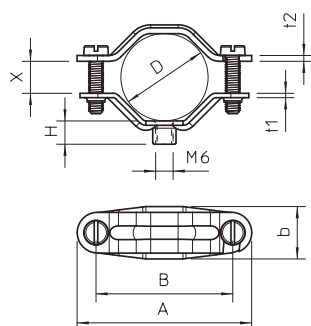
St G



Type	Clamping range D mm	Bolt	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2070 M6 G	12-20	M5 x 14	500	50	2.300	1380028
2071 M6 G	20-30	M5 x 20	600	50	3.310	1380222
2072 M6 G	30-44	M5 x 22	300	25	5.990	1380427
2073 M6 G	44-60	M6 x 25	240	20	9.660	1380729

With M6 thread.
Universal clip with large tensioning area.

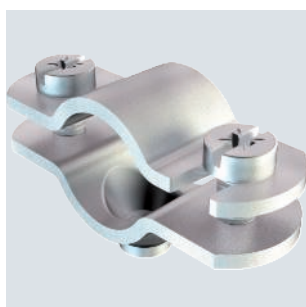
Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. b mm	Dimen- sion t1 mm	Dimen- sion t2 mm	Dim. H mm	Dim. x mm
2070 M6 G	12-20	48	35	14	1.5	1.5	9	9
2071 M6 G	20-30	60	47	14	1.5	2	7.5	11
2072 M6 G	30-44	79	64	16	2	2	8	15
2073 M6 G	44-60	102	86	18	2	2	8	18

Screw-in spacer clip

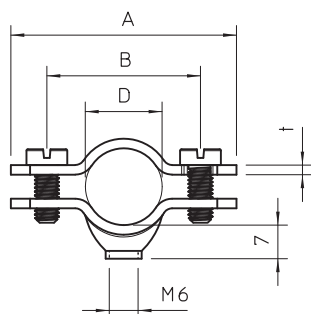
St G



Type	Clamping range D mm	Bolt	Pack Piece	Weight kg/100 pc.	Item no.
731 W 12 G	8-12	M5 x 12	50	2.470	1366122
731 W 16 G	12-16	M5 x 12	50	2.816	1366165
731 W 20 G	16-20	M5 x 14	50	3.124	1366203
731 W 25 G	20-25	M5 x 14	50	3.480	1366254
731 W 30 G	25-30	M5 x 14	25	4.060	1366300
731 W 35 G	30-35	M5 x 18	25	4.344	1366351

With M6 thread.

Dimensions



Type	Dim. A mm	Dim. B mm	Dim. D mm	Dim. t mm	Hole size mm
731 W 12 G	43	28	12	12	M6
731 W 16 G	47	32	16	14	M6
731 W 20 G	51	36	20	14	M6
731 W 25 G	58	43	25	14	M6
731 W 30 G	64	49	30	14	M6
731 W 35 G	65	50	35	18	M6



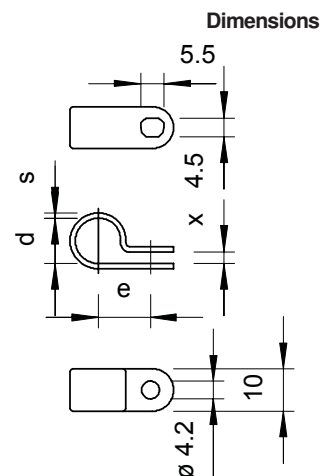
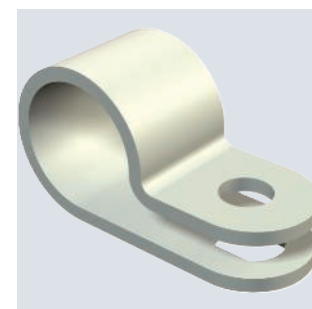


Fastening clip

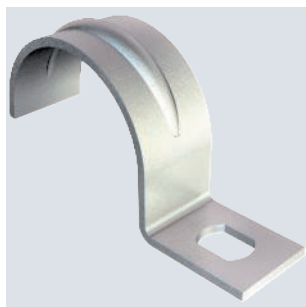
Type	For cable Ø mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
255 3.2 LGR	3.2	Light grey	100	0.039	2222035
255 5.2 LGR	5.2	Light grey	100	0.039	2222051
255 6.5 LGR	6.5	Light grey	100	0.047	2222078
255 8 LGR	8	Light grey	100	0.054	2222086
255 9.5 LGR	9.5	Light grey	100	0.063	2222094
255 11 LGR	11	Light grey	100	0.073	2222116
255 12.5 LGR	12.5	Light grey	100	0.078	2222124
255 14 LGR	14	Light grey	100	0.103	2222140
255 16 LGR	16	Light grey	100	0.126	2222167
255 17.5 LGR	17.5	Light grey	100	0.123	2222175

Fastening clip for secure all-round fixing of cables.

Type	For cable Ø mm	Dim. d mm	Dim. e mm	Dimen- sion s mm	Dim. x mm
255 3.2 LGR	3.2	3	8.5	1	1.8
255 5.2 LGR	5.2	5	9.5	1	1.8
255 6.5 LGR	6.5	6.3	10	1	2.2
255 8 LGR	8	7.8	10	1.2	2.2
255 9.5 LGR	9.5	9.3	11	1.2	2.2
255 11 LGR	11	10.8	13	1.2	2.8
255 12.5 LGR	12.5	12.3	14	1.2	2.8
255 14 LGR	14	13.8	15	1.5	3.2
255 16 LGR	16	15.8	16	1.5	3.2
255 17.5 LGR	17.5	17.2	17	1.5	3.2



Fastening clip 604, light-duty



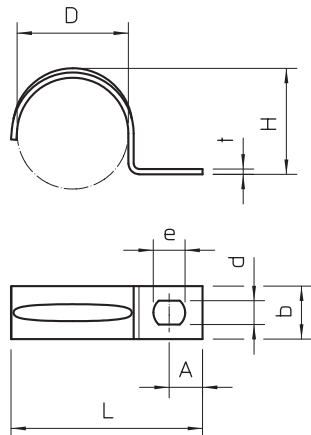
Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
604 3 G	3	4,5x6	0,7	100	0.052	1003038
604 4 G	4	4,5x6	0,7	100	0.067	1003046
604 5 G	5	4,5x6	0,7	100	0.084	1003054
604 6 G	6	4,5x6	0,7	100	0.099	1003062
604 7 G	7	4,5x6	0,7	100	0.120	1003070
604 8 G	8	4,5x6	0,7	100	0.123	1003089
604 9 G	9	4,5x6	0,7	100	0.139	1003097
604 10 G	10	4,5x6	0,7	100	0.150	1003100
604 11 G	11	4,5x6	1	100	0.270	1003119
604 12 G	12	4,5x6	0,7	100	0.240	1003127
604 13 G	13	4,5x6	1	100	0.280	1003135
604 16 G	16	4,5x6	1	100	0.348	1003178
604 19 G	19	4,5x6	1	100	0.411	1003194
604 20 G	20	4,5x6	1	100	0.431	1003208
604 21 G	21	4,5x6	1	100	0.447	1003216
604 23 G	23	4,5x6	1	100	0.490	1003232
604 25 G	25	4,5x6	1	100	0.900	1003259
604 28 G	28	4,5x6	1	100	0.874	1003283
604 32 G	32	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
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

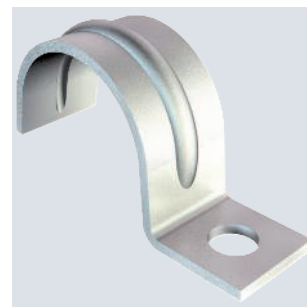




Fastening clip 1015, medium-duty

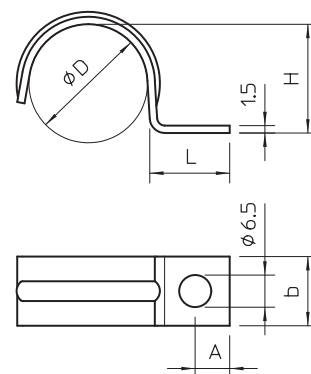
Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
1015 20 G	20	6,5	1,5	100	0.921	1009230
1015 25 G	25	6,5	1,5	100	1.150	1009427
1015 28 G	28	6,5	1,5	100	1.250	1009362

Single-lobe fastening clip for cables and pipes.
Beadling from size 20.



Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. b mm	Dim. A mm
1015 20 G	20	16	18	14	7
1015 25 G	25	16	22,5	14	7
1015 28 G	28	16	25	14	7

Dimensions



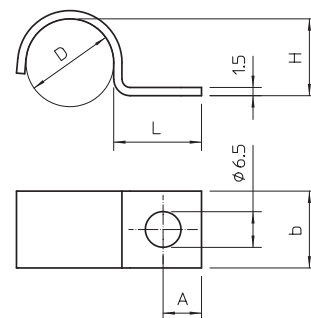
Fastening clip 1015, medium-duty

Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
1015 5 G	5	6,5	1,5	100	0.325	1009028
1015 6 G	6	6,5	1,5	100	0.385	1009036
1015 7 G	7	6,5	1,5	100	0.418	1009044
1015 8 G	8	6,5	1,5	100	0.428	1009052
1015 9 G	9	6,5	1,5	100	0.468	1009060
1015 10 G	10	6,5	1,5	100	0.560	1009079
1015 11 G	11	6,5	1,5	100	0.632	1009087
1015 12 G	12	6,5	1,5	100	0.672	1009109
1015 13 G	13	6,5	1,5	100	0.683	1009117
1015 14 G	14	6,5	1,5	100	0.710	1009168
1015 15 G	15	6,5	1,5	100	0.744	1009184
1015 16 G	16	6,5	1,5	100	0.753	1009192
1015 17 G	17	6,5	1,5	100	0.764	1009206
1015 18 G	18	6,5	1,5	100	0.835	1009214

Single-lobe fastening clip for cables and pipes.

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

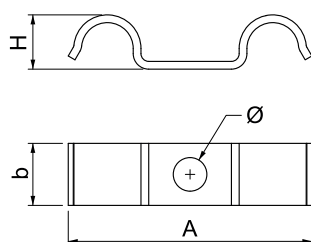
St G



Type	For Ø mm	Hole size mm	Pack Piece	Weight kg/100 pc.	Item no.
1015 D 5 G	5	6,5	100	0.600	1009455
1015 D 6 G	6	6,5	100	0.670	1009457
1015 D 7 G	7	6,5	100	1.070	1009459
1015 D 8 G	8	6,5	100	1.150	1009461
1015 D 9 G	9	6,5	100	1.220	1009463
1015 D 10 G	10	6,5	100	1.300	1009465
1015 D 12 G	12	6,5	100	1.700	1009469
1015 D 14 G	14	6,5	100	1.870	1009473
1015 D 15 G	15	6,5	100	1.980	1009475
1015 D 16 G	16	6,5	100	2.100	1009477
1015 D 18 G	18	6,5	100	2.250	1009481
1015 D 20 G	20	6,5	100	2.500	1009485
1015 D 22 G	22	6,5	100	2.650	1009489
1015 D 25 G	25	6,5	100	2.950	1009493

Fastening clip with a central fastening point for 2 cables or 2 pipes

Dimensions



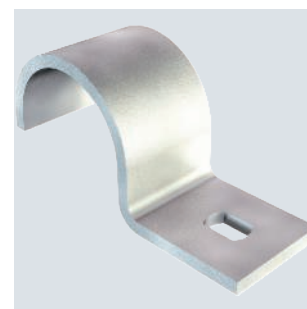
Type	Dim. A mm	Dim. b mm	Dim. H mm
1015 D 5 G	33	12	6
1015 D 6 G	35	12	7
1015 D 7 G	41	12	8
1015 D 8 G	43	12	9
1015 D 9 G	45	12	10
1015 D 10 G	47	12	10,5
1015 D 12 G	51	14	12
1015 D 14 G	55	14	14
1015 D 15 G	58	14	15
1015 D 16 G	60	14	16
1015 D 18 G	64	14	18
1015 D 20 G	69	14	21
1015 D 22 G	72	14	22
1015 D 25 G	79	14	25





Fastening clip 822, heavy-duty

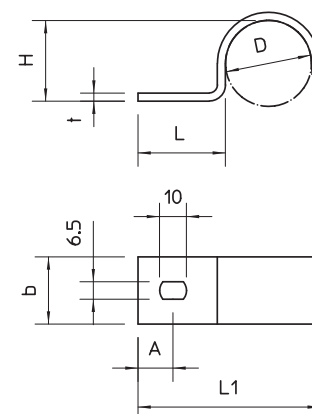
Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
822 6 FT	6	6,5x10	2	100	0.885	1014005
822 10 FT	10	6,5x10	2	100	1.075	1014013
822 12 FT	12	6,5x10	2	100	1.450	1014021
822 14 FT	14	6,5x10	2	100	1.600	1014048
822 16 FT	15,2	6,5x10	2	100	1.733	1014099
822 18 FT	18,6	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 mm	Dim. L mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. L1 mm	Dim. b mm
822 6 FT	6	23,5	5	2	10	32	20
822 10 FT	10	23,5	9	2	10	36	20
822 12 FT	12	23,5	11	2	10	38,5	20
822 14 FT	14	23,5	13	2	10	40,5	20
822 16 FT	15,2	23,5	14	2	10	42	20
822 18 FT	18,6	23,5	17	2	10	45	20
822 20 FT	20	23,5	19,5	2	10	48	20
822 22,5 FT	22,5	23,5	21	2	11	49	20
822 25 FT	25	25,5	23,5	3	11	53	20
822 28,3 FT	28,3	27	26,5	3	11	60	20
822 32 FT	32	32,5	30	3	13	68	25
822 37 FT	37	30	35	3	13	70	25
822 40 FT	40	32,5	38	3	13	76	25
822 47 FT	47	30	45	3	13	81	25
822 50 FT	50	32,5	47	3	15	86	25
822 63 FT	63	33,5	60	3	15	100	25

Dimensions



Fastening clip 822, heavy-duty

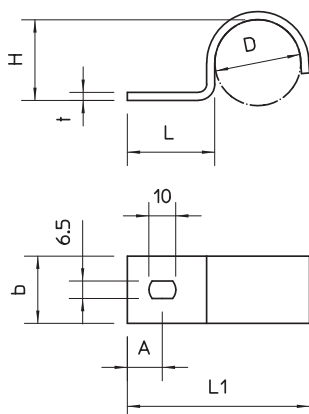
VA 2B



Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
822 6 A4	6	6,5x10	2	100	0.885	1013861
822 10 A4	10	6,5x10	2	100	1.075	1013865
822 12 A4	12	6,5x10	2	100	1.450	1013869
822 14 A4	14	6,5x10	2	100	1.600	1013873
822 16 A4	15,2	6,5x10	2	100	1.733	1013877
822 18 A4	18,6	6,5x10	2	100	1.946	1013881
822 20 A4	20	6,5x10	2	100	2.125	1013885
822 22.5 A4	22,5	6,5x10	2	50	2.338	1013889
822 25 A4	25	6,5x10	2	50	2.400	1013893
822 32 A4	32	6,5x10	2	100	5.490	1013903
822 40 A4	40	6,5x10	2	100	6.590	1013911
822 50 A4	50	6,5x10	3	100	7.690	1013921
822 63 A4	63	6,5x10	3	100	9.260	1013925

Single-lobe fastening clip for cables and pipes.

Dimensions



Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. L1 mm	Dim. b mm
822 6 A4	6	23,5	5	2	10	32	20
822 10 A4	10	23,5	9	2	10	36	20
822 12 A4	12	23,5	11	2	10	38,5	20
822 14 A4	14	23,5	13	2	10	40,5	20
822 16 A4	15,2	23,5	14	2	10	42	20
822 18 A4	18,6	23,5	17	2	10	45	20
822 20 A4	20	23,5	19,5	2	10	48	20
822 22.5 A4	22,5	23,5	21	2	11	49	20
822 25 A4	25	25,5	23,5	3	11	53	20
822 32 A4	32	32,5	30	3	13	68	25
822 40 A4	40	32,5	38	3	13	76	25
822 50 A4	50	32,5	47	3	15	86	25
822 63 A4	63	33,5	60	3	15	100	25



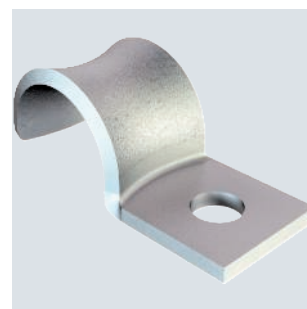


Fastening clip, plant standard 7855, single-lobe

Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WN 7855 A 2	2	3,2	0,8	100	0.039	1043013
WN 7855 A 2.5	2.5	3,2	0,8	100	0.041	1043021
WN 7855 A 4	4	3,2	1	100	0.062	1043064
WN 7855 A 4.5	4.5	3,2	1	100	0.074	1043072
WN 7855 A 5	5	3,2	1	100	0.090	1043080
WN 7855 A 6	6	3,2	1	100	0.097	1043102
WN 7855 A 7	7	3,2	1	100	0.120	1043129
WN 7855 A 8	8	3,2	1	100	0.159	1043145
WN 7855 A 9	9	3,2	1.5	100	0.168	1043161
WN 7855 A 10	10	3,2	1.5	100	0.170	1043196
WN 7855 A 12	12	4,3	1.5	100	0.530	1043226
WN 7855 A 14	14	4,3	1.5	100	0.579	1043242

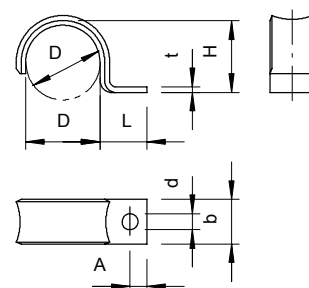
Dimensions to Siemens standard SN 78550, shape A, with strongly rounded edges, thus particularly suitable for sensitive cables.

* Sizes 2 to 10 not suitable for bolt-firing tool and nail device.



Type	Dim. D mm	Dim. L mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. d mm	Dim. b mm
WN 7855 A 2	2	8.5	1.5	0.8	3	3.2	6
WN 7855 A 2.5	2.5	5.25	2	0.8	3	3.2	6
WN 7855 A 4	4	7.5	3.5	0.8	3	3.2	6
WN 7855 A 4.5	4.5	8.25	4	1	3	3.2	6
WN 7855 A 5	5	8	4.5	1	3	3.2	6
WN 7855 A 6	6	7.5	5.5	1	3	3.2	6
WN 7855 A 7	7	10	6	1	4	3.2	8
WN 7855 A 8	8	9.5	7	1	4	3.2	8
WN 7855 A 9	9	9	8	1	4	3.2	8
WN 7855 A 10	10	8.5	9	1	4	3.2	8
WN 7855 A 12	12	13.5	10	1.5	4.5	4.3	12
WN 7855 A 14	14	12.5	12	1.5	4.5	4.3	12

Dimensions



Fastening clip, plant standard 7855, double-lobe

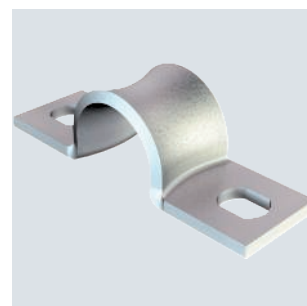
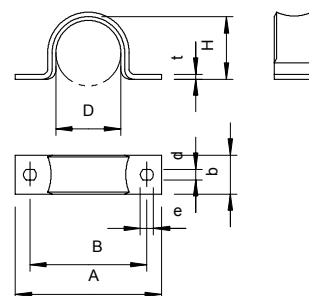
Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
WN 7855 B 3	3	3,2x4	0,8	100	0.080	1044044
WN 7855 B 4	4	3,2x4	0,8	100	0.082	1044060
WN 7855 B 4.5	4.5	3,2x4	1	100	0.097	1044079
WN 7855 B 5	5	3,2x4	1	100	0.118	1044087
WN 7855 B 6	6	3,2x4	1	100	0.128	1044109
WN 7855 B 7	7	3,2x4	1	100	0.200	1044125
WN 7855 B 8	8	3,2x4	1	100	0.218	1044141
WN 7855 B 9	9	3,2x4	1.5	100	0.222	1044176
WN 7855 B 10	10	3,2x4	1.5	100	0.223	1044192
WN 7855 B 12	12	4,3x5	1.5	100	0.675	1044214
WN 7855 B 14	14	4,3x5	1.5	100	0.733	1044230
WN 7855 B 16	16	4,3x5	1.5	100	0.742	1044257

Dimensions to Siemens standard SN 78550, shape B, with strongly rounded edges, thus particularly suitable for sensitive cables.

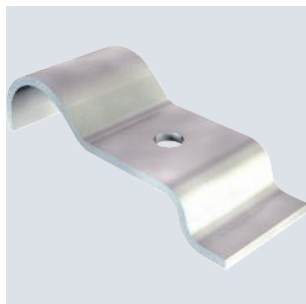
* Sizes 3 to 10 not suitable for nail device.

Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
WN 7855 B 3	3	2.5	0.8	21	14	6	3.2	4
WN 7855 B 4	4	3.5	1	21	14	6	3.2	4
WN 7855 B 4.5	4.5	4	1	24	16	6	3.2	4
WN 7855 B 5	5	4.5	1	24	16	6	3.2	4
WN 7855 B 6	6	5.5	1	24	16	6	3.2	4
WN 7855 B 7	7	6	1	28	20	8	3.2	4
WN 7855 B 8	8	7	1	28	20	8	3.2	4
WN 7855 B 9	9	8	1	28	20	8	3.2	4
WN 7855 B 10	10	9	1	28	20	8	3.2	4
WN 7855 B 12	12	10	1.5	39	30	12	4.3	5
WN 7855 B 14	14	12	1.5	39	30	12	4.3	5
WN 7855 B 16	16	14	1.5	39	30	12	4.3	5

Dimensions



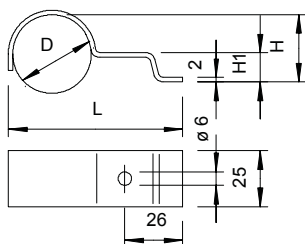
Fastening clip 1594, single-lobe, heavy-duty version



Type	For cable Ø mm	Hole size mm	Material thickness mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1594 22 G	22	6	2	Stone grey	100	3.300	1310925

For earthing cable fastening to house connection boxes.
Levanisit coated.

Dimensions



Type	Dim. L mm	Dim. H mm	Dim. H1 mm
1594 22 G	65	18	11





Fastening clip 605, medium-duty

Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 7 G	7	4,5x6	1	100	0.183	1018078
605 8 G	8	4,5x6	1	100	0.203	1018086
605 9 G	9	4,5x6	1	100	0.246	1018094
605 10 G	10	4,5x6	1	100	0.432	1018108
605 11 G	11	4,5x6	1	100	0.462	1018116
605 12 G	12	4,5x6	1	100	0.485	1018124
605 13 G	13	4,5x6	1	100	0.532	1018132
605 14 G	14	4,5x6	1	100	0.560	1018140
605 15 G	15	4,5x6	1	100	0.584	1018159
605 16 G	16	4,5x6	1	100	0.585	1018167
605 17 G	17	4,5x6	1	100	0.604	1018175
605 18 G	18	4,5x6	1	100	0.640	1018183
605 19 G	19	4,5x6	1	100	0.671	1018191
605 20 G	20	4,5x6	1	100	0.664	1018205
605 21 G	21	4,5x6	1	100	0.678	1018213
605 23 G	23	4,5x6	1	100	0.826	1018221
605 25 G	25	4,5x6	1	100	0.960	1018256
605 26 G	26	4,5x6	1	100	0.975	1018264
605 28 G	28	4,5x6	1	100	1.067	1018280
605 30 G	30	4,5x6	1	100	1.150	1018302
605 32 G	32	4,5x6	1	100	1.260	1018337
605 35 G	35	5,5x7	1.5	100	1.921	1018353
605 37 G	37	5,5x7	1.5	100	2.007	1018361

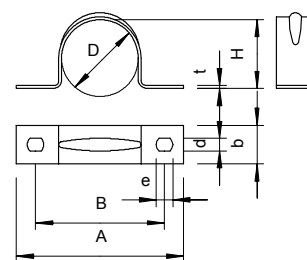


Two lobe fastening clips for cables and pipes.

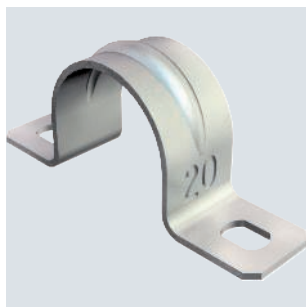
* Sizes 7 to 12 not suitable for bolt-firing tool.

Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 7 G	7	6	1	32	21	10	4.5	6
605 8 G	8	7	1	33	22	10	4.5	6
605 9 G	9	8	1	34	23	10	4.5	6
605 10 G	10	9	1	37	25	12	4.5	6
605 11 G	11	10	1	38	26	12	4.5	6
605 12 G	12	11	1	39	27	12	4.5	6
605 13 G	13	12	1	41	29	12	4.5	6
605 14 G	14	13	1	42	30	12	4.5	6
605 15 G	15	13.5	1	43	31	12	4.5	6
605 16 G	16	14.5	1	44	32	12	4.5	6
605 17 G	17	15.5	1	45	33	12	4.5	6
605 18 G	18	16.5	1	46	34	12	4.5	6
605 19 G	19	17.5	1	47	35	12	4.5	6
605 20 G	20	18.5	1	49	37	12	4.5	6
605 21 G	21	19.5	1	50	38	12	4.5	6
605 23 G	23	21	1	52	40	12	4.5	6
605 25 G	25	23	1	58	44	14	4.5	6
605 26 G	26	24	1	59	45	14	4.5	6
605 28 G	28	26	1	61	47	14	4.5	6
605 30 G	30	28	1	63	49	14	4.5	6
605 32 G	32	30	1	66	52	14	5.5	6
605 35 G	35	32	1.5	70	56	14	5.5	7
605 37 G	37	34	1.5	72	58	14	5.5	7

Dimensions



Fastening clip 605, medium-duty

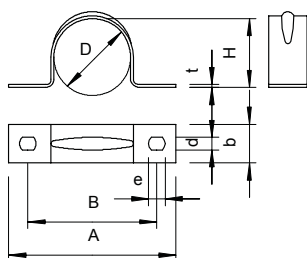


Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 40 G	40	5,5x7	1.5	50	1.900	1018396
605 43 G	43	5,5x7	1.5	50	2.324	1018434
605 47 G	47	5,5x7	1.5	50	2.366	1018477
605 50 G	50	5,5x7	1.5	25	2.770	1018507
605 55 G	55	5,5x7	1.5	25	3.840	1018558
605 60 G	60	5,5x7	1.5	25	3.800	1018604
605 63 G	63	5,5x7	1.5	25	3.670	1018639

Two lobe fastening clips for cables and pipes.

* Sizes 7 to 12 not suitable for bolt-firing tool.

Dimensions



Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 40 G	40	37	1.5	75	61	14	5.5	7
605 43 G	43	40	1.5	78	64	14	5.5	7
605 47 G	47	44	1.5	82	68	14	5.5	7
605 50 G	50	46	1.5	88	74	16	5.5	7
605 55 G	55	51	1.5	94	78	16	5.5	7
605 60 G	60	56	1.5	99	83	16	5.5	7
605 63 G	63	59	1.5	112	98	16	5.5	7

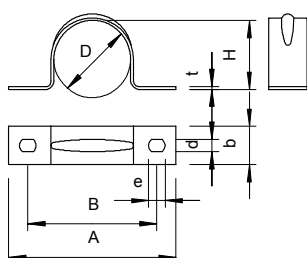
Fastening clip 605, medium-duty



Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 16 ALU	16	4,5x6	1	100	0.218	1017799
605 20 ALU	20	4,5x6	1	100	0.228	1017837
605 25 ALU	25	4,5x6	1	100	0.330	1017861
605 32 ALU	32	4,5x6	1	100	0.433	1017926
605 40 ALU	40	5,5x7	1	50	0.650	1017950
605 50 ALU	50	5,5x7	1.5	25	0.952	1017980
605 63 ALU	63	5,5x7	1.5	25	1.260	1017997

Two lobe fastening clips for cables and pipes.

Dimensions



Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 16 ALU	16	14.5	1	44	32	12	4.5	6
605 20 ALU	20	18.5	1	49	37	12	4.5	6
605 25 ALU	25	23	1	58	44	14	4.5	6
605 32 ALU	32	29	1	95	71	25	4.5	6
605 40 ALU	40	37	1.5	75	61	14	5.5	7
605 50 ALU	50	46	1.5	110	86	25	5.5	7
605 63 ALU	63	59	1.5	120	96	25	5.5	7





Fastening clip 605, medium-duty

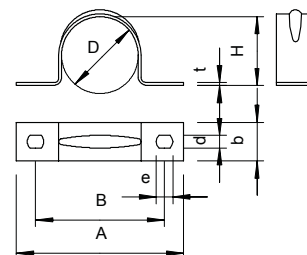
Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
605 12 A4	12	4,5x6	1	100	0.485	1018653
605 16 A4	16	4,5x6	1	100	0.585	1018661
605 20 A4	20	4,5x6	1	100	0.664	1018669
605 25 A4	25	4,5x6	1	100	0.992	1018679
605 32 A4	32	4,5x6	1	100	1.260	1018693
605 40 A4	40	5,5x7	1,5	50	1.900	1018705
605 50 A4	50	5,5x7	1,5	25	2.770	1018717
605 63 A4	63	5,5x7	1,5	25	3.670	1018729

Two lobe fastening clips for cables and pipes.

Type	Dim. D mm	Dim. H mm	Dim. t mm	Dim. A mm	Dim. B mm	Dim. b mm	Dim. d mm	Dim. e mm
605 12 A4	12	11	1	39	27	12	4,5	6
605 16 A4	16	14,5	1	44	32	12	4,5	6
605 20 A4	20	18,5	1	49	37	12	4,5	6
605 25 A4	25	23	1	58	44	14	4,5	6
605 32 A4	32	30	1	66	52	14	5,5	6
605 40 A4	40	37	1,5	75	61	14	5,5	7
605 50 A4	50	46	1,5	88	74	16	5,5	7
605 63 A4	63	59	1,5	112	98	16	5,5	7



Dimensions

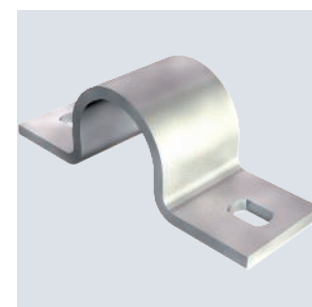


Fastening clip 823, heavy-duty

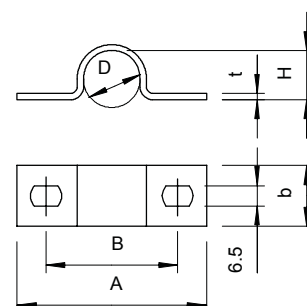
Type	For Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
823 16 FT	16	6,5x10	2	50	2.260	1015095
823 18.3 FT	18.6	6,5x10	2	50	2.446	1015117
823 20 FT	20	6,5x10	2	50	2.662	1015133
823 22.5 FT	22.5	6,5x10	2	50	2.988	1015168
823 25 FT	25	6,5x10	3	25	6.770	1015494
823 28.3 FT	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



Series pressure clip, light grey

PA

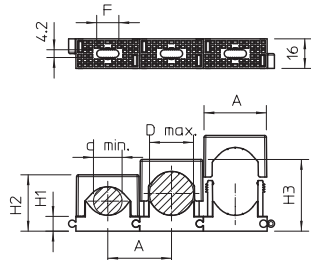


Type	Clamping range D mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2037 3-7 LGR	3-7	Light grey	1000	100	0.260	2250071
2037 6-13 LGR	6-13	Light grey	1200	100	0.359	2250136
2037 12-20 LGR	12-20	Light grey	500	50	0.572	2250209
2037 16-24 LGR	16-24	Light grey	600	50	0.838	2250241
2037 18-30 LGR	18-30	Light grey	300	25	0.997	2250306
2037 27-43 LGR	27-43	Light grey	300	25	1.615	2250438

Universal clip for the single fastening of cables and pipes, all sizes can be seamlessly expanded among each other, with adhesive foot, slot and for screwing to M6 thread.
To stick the polyamide clips to masonry and concrete, use Impu-Fix ribbon conductor quick adhesive, type 509.

*Sizes 3-7 are not suitable for nail guns.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. H1 mm	Dim. H2 mm	Dim. H3 mm	Dim. d min. mm	Dim. D max. mm	Dim. F mm
2037 3-7 LGR	3-7	14.5	7.5	15.5	19.5	3	7	6
2037 6-13 LGR	6-13	20	8.5	20	27	6	13	13
2037 12-20 LGR	12-20	28	8.5	26	34	12	20	14
2037 16-24 LGR	16-24	34.5	8.5	31	39	16	24	12
2037 18-30 LGR	18-30	40	9	34	46	18	30	12
2037 27-43 LGR	27-43	55	10.5	46	62	27	43	15

Series clips

Series clip

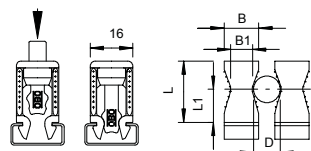
PS



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2047 5-25 LGR	5-25	Light grey	100	0.320	2251256

Series clip without metallic parts, thus protected against corrosion.
Use: lock the clip in the profile rail and fix it by hitting it with a hammer.

Dimensions



Type	Dim. H mm	Dim. H1 mm	Dim. B mm	Dim. B1 mm	Clamping range D mm
2047 5-25 LGR	23	12.5	13	8	5-25



PS



Type	Clamping range D mm	Bolt	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2050 5-25 LGR	5-25	M4 x 27	Light grey	100	0.631	2254026

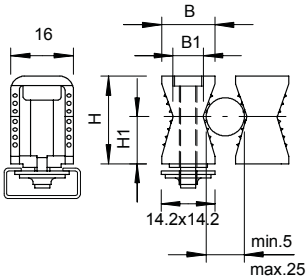
Also suitable for rails of 11 - 12 mm slot width; polystyrene clip element, impact resistant, halogen-free, light grey RAL 7035; metal parts: electrogalvanised steel.

Series clip



Type	Dim. H mm	Dim. H1 mm	Dim. B mm	Dimen- sion B1 mm	Clamping range D mm
2050 5-25 LGR	23	12.5	14	8.5	5-25

Dimensions



PS



Type	Clamping range D mm	Bolt	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2050 5-25 RW	5-25	M4 x 27	Pure white	100	0.631	2254522

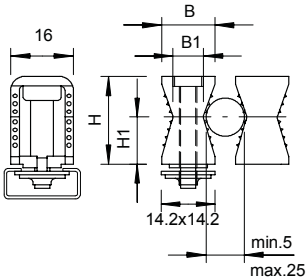
Also suitable for rails of 11 - 12 mm slot width; polystyrene clip element, impact resistant, halogen-free, light grey RAL 7035; metal parts: electrogalvanised steel.

Series clip



Type	Dim. H mm	Dim. H1 mm	Dim. B mm	Dimen- sion B1 mm	Clamping range D mm
2050 5-25 RW	23	12.5	14	8.5	5-25

Dimensions



Series clip

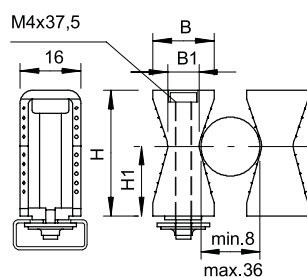
PS



Type	Clamping range D mm	Bolt	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2051 8-36 LGR	8 - 36	M4 x 37.5	Light grey	100	0.851	2254034

Also suitable for rails of 11 - 12 mm slot width; polystyrene clip element, impact resistant, halogen-free, light grey RAL 7035; metal parts: electrogalvanised steel.

Dimensions



Type	Dim. H mm	Dim. H1 mm	Dim. B mm	Dimen- sion B1 mm	Clamping range D mm
2051 8-36 LGR	34	19	16.5	8.5	8 - 36



PA



Type	Clamping range D mm	Bolt	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2054 14-48 LGR	14-48	M8 x 55	Light grey	25	5.120	2255014
2055 24-72 LGR	24-72	M8 x 75	Light grey	20	6.471	2255022

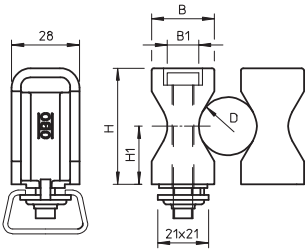
Heavyweight version, also suitable for rails of 16 ÷ 17 mm slot width; polyamide clip element, light grey RAL 7035;
Metal parts: Electrogalvanised steel.

Series clip



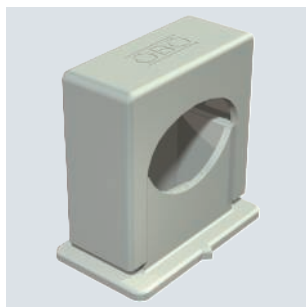
Type	Dim. H mm	Dim. H1 mm	Dim. B mm	Dimen- sion B1 mm	Clamping range D mm
2054 14-48 LGR	48	24	26	13	14-48
2055 24-72 LGR	70	35	38	15	24-72

Dimensions



Pressure ISO clip 3050, single, light grey

PS

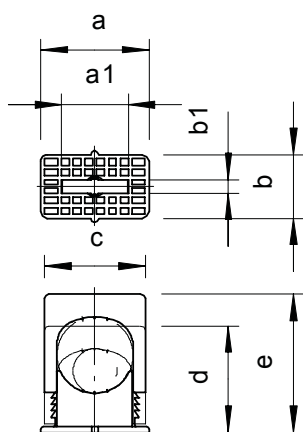


Type	Clamping range D mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
3050 LGR	6-16	Light grey	1200	100	0.400	2110107

With adhesive base, slot and for screwing to M6 thread.

Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.

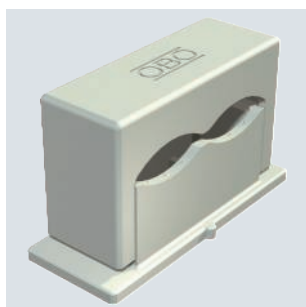
Dimensions



Type	Clamping range D mm	Dimension a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm
3050 LGR	6-16	13	4	28	18	22.5	25	34

Pressure ISO clip 3050, double, light grey

PS

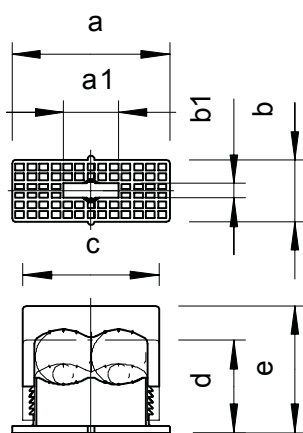


Type	Clamping range D mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
3050 2 6-16	6-16	Light grey	250	25	1.044	2115018

For two cables, with adhesive base, slot and for screwing to M6 thread.

Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.

Dimensions



Type	Clamping range D mm	Dimension a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm
3050 2 6-16	6-16	26	3.8	46	18	40	26	35



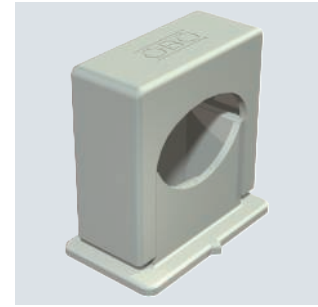
PS



Pressure ISO clip 3051, single, light grey

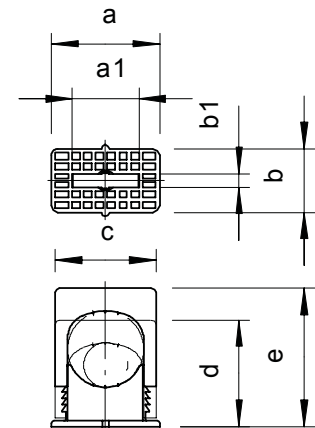
Type	Clamping range D mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
3051 LGR	14-24	Light grey	600	50	0.720	2101033

With adhesive base, slot and for screwing to M6 thread.
Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.



Type	Clamping range D mm	Dimension a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm
3051 LGR	14-24	21	4.2	34	20	32	33	43

Dimensions



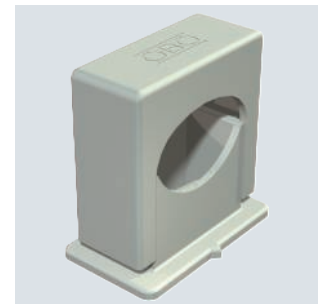
PS



Pressure ISO clip 3052, single, light grey

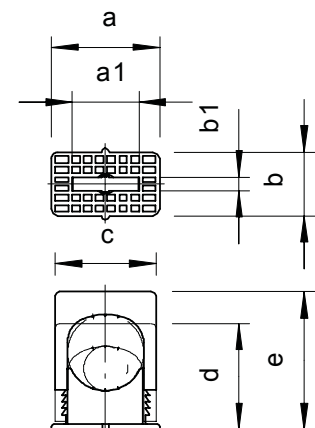
Type	Clamping range D mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
3052 LGR	24-34	Light grey	300	25	1.290	2101068

With adhesive base, slot and for screwing to M6 thread.
Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.



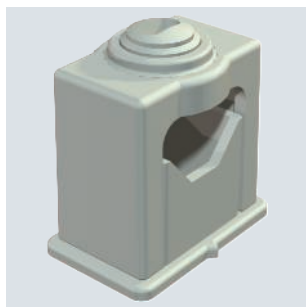
Type	Clamping range D mm	Dimension a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm
3052 LGR	24-34	16	4.2	45	24	43	43	57

Dimensions



Grip ISO clip, single

PS

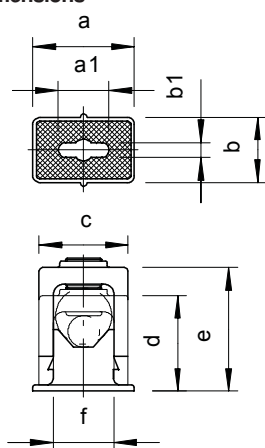


Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3040 LGR	6-16	Light grey	100	0.532	2105012
3041 LGR	16-24	Light grey	50	1.168	2105039
3042 LGR	24-34	Light grey	25	2.488	2105055

Solid cable fastening through clamping screws, with adhesive base, slot and for screwing to M6 thread.

Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.

Dimensions



Type	Clamping range D mm	Dimension a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm	Dimension f mm
3040 LGR	6-16	13.5	4	28	18	24.5	28	35	20
3041 LGR	16-24	20	4.2	35	22	37	36	44	31
3042 LGR	24-34	14	4.2	50	22	48	49	59	40

Grip ISO clip, double

PS

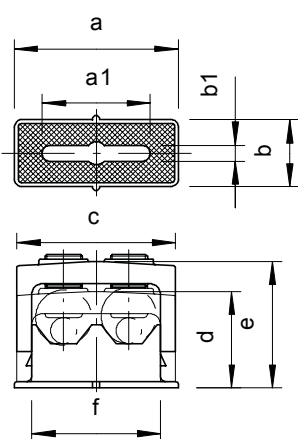


Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3040 2	6-16	Light grey	25	1.184	2107015
3041 2	16-24	Light grey	25	1.948	2107031

Solid cable fastening through clamping screws, with adhesive base, slot and for screwing to M6 thread.

Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.

Dimensions



Type	Clamping range D mm	Dimension a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm	Dimension f mm
3040 2	6-16	16	4.2	44	18	43	28	35	38
3041 2	16-24	46	4.5	63	22	61	37	46	55



PS

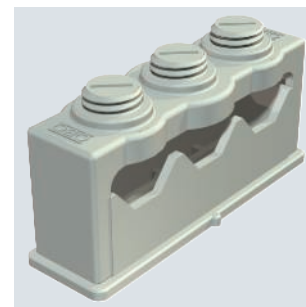


Grip ISO clip, triple

Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3040 3	6-16	Light grey	25	1.508	2109018

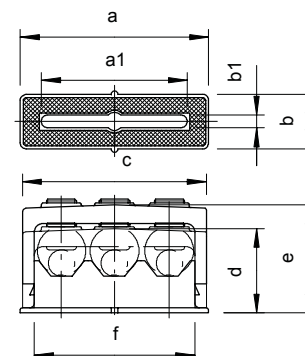
Solid cable fastening through clamping screws, with adhesive base, slot and for screwing to M6 thread.

Use the Impu-Fix ribbon conductor quick adhesive, type 509, to stick the polystyrene clips to masonry and concrete.



Type	Clamping range D mm	Dimension a1 mm	Dim. b1 mm	Dim. a mm	Dim. b mm	Dim. c mm	Dim. d mm	Dim. e mm	Dimension f mm
3040 3	6-16	48	4	62	18	61	31	38	55

Dimensions



SOM clip, single

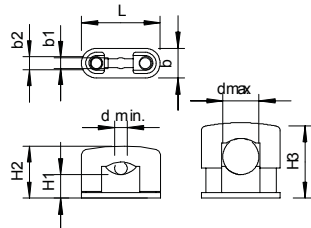
PS



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3079 LGR	5 - 14	Light grey	50	0.431	2124149
3080 LGR	6 - 17	Light grey	50	0.926	2124173
3081 LGR	15 - 25	Light grey	25	1.860	2124254
3082 LGR	22 - 34	Light grey	25	2.055	2124343

With plastic screws, so corrosion-protected, with slot for fastening with wood screws or 5 mm knock-in anchors.

Dimensions



Type	Clamping range D mm	Dim. L mm	Dim. d min. mm	Dim. d max. mm	Dim. H1 mm	Dim. H2 mm	Dim. H3 mm	Dim. b mm	Dim. b1 mm	Bolt
3079 LGR	5 - 14	31	5	13	10.5	20	29	12	4.2	M5 x 14
3080 LGR	6 - 17	37	6	17	11	24.5	35.5	14	4	M6 x 18
3081 LGR	15 - 25	51	14	25	11.5	33	44	17	5	M8 x 23
3082 LGR	22 - 34	62	22	34	11	40	52	18	5.2	M8 x 23

SOM clip, single, hardly flammable

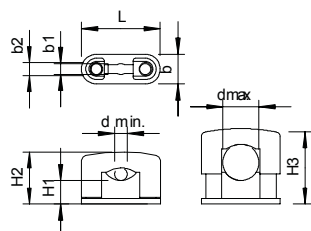
UF



Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3083 LGR	32 - 45	Light grey	20	5.840	2124459

With plastic screws, so corrosion-protected, with slot for fastening with wood screws or 5 mm knock-in anchors.
Hardly flammable.

Dimensions



PS



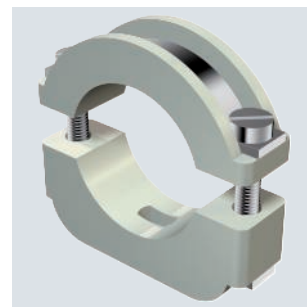
Lightning ISO clip

Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3015 12 LGR	6-12	Light grey	50	1.600	2157128
3015 17 LGR	10-17	Light grey	50	1.742	2157179
3015 24 LGR	17-24	Light grey	50	2.542	2157241
3015 34 LGR	24-34	Light grey	25	3.620	2157349

Lightning ISO clips: plastic clip with metal insert, therefore also suitable for heavy-duty applications; metal parts made of electrogalvanised steel.

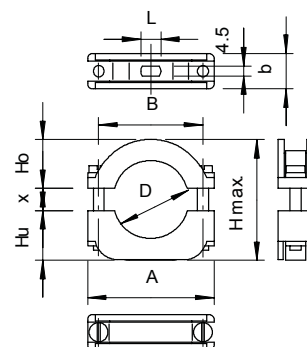
3015 with 4.5 mm slot.

*Sizes 6-12 and 10-17 not suitable for bolt-firing device.



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. H mm	Dimension Ho mm	Dimension Hu mm	Dim. L mm	Dim. b mm	Bolt
3015 12 LGR	6-12	34	24	30	9.5	13.5	7.5	14	M4 x 22
3015 17 LGR	10-17	38	28	36.5	12	14	7.5	14	M4 x 25
3015 24 LGR	17-24	47.5	37	43	16	18	10	15	M4 x 30
3015 34 LGR	24-34	57	47	54.4	22	22	9	16	M5 x 35

Dimensions



PS



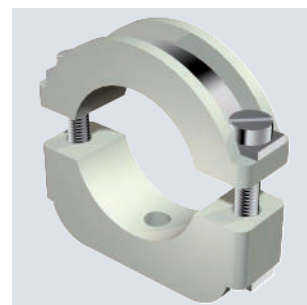
Lightning ISO clip, screw-on

Type	Clamping range D mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
3019 M6 LGR	6-12	Light grey	50	1.564	2158124
3020 LGR	10-17	Light grey	50	1.588	2158175
3021 LGR	17-24	Light grey	25	2.632	2158248
3022 LGR	24-34	Light grey	25	3.623	2158345

Lightning ISO clips: plastic clip with metal insert, therefore also suitable for heavy-duty applications; metal parts made of electrogalvanised steel.

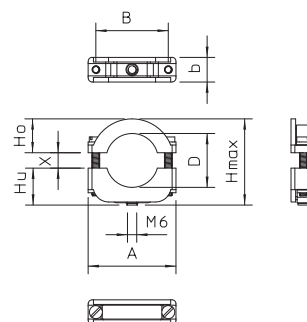
Can be screwed onto M6 thread.

*Sizes 6-12 and 10-17 not suitable for bolt-firing device.



Type	Clamping range D mm	Dim. A mm	Dim. b mm	Dim. B mm	Dim. H mm	Dimension Ho mm	Dimension Hu mm	Dim. x mm	Bolt
3019 M6 LGR	6-12	34	14	24	32.5	9.5	13.5	6	M4 x 22
3020 LGR	10-17	38	14	28	36	12	14	7	M4 x 25
3021 LGR	17-24	47.5	15	37	44	16	18	8	M4 x 30
3022 LGR	24-34	57	16	47	56	22	22	10	M5 x 35

Dimensions



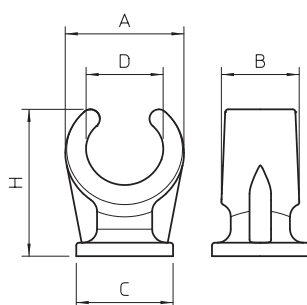
Base clamp clip, single



Type	Size	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2962 6 LGR	6	Light grey	1200	100	0.080	2140063
2962 8 LGR	8	Light grey	2000	100	0.106	2140071
2962 10 LGR	10	Light grey	2400	100	0.136	2140101
2962 12 LGR	12	Light grey	1200	100	0.182	2140128
2962 15 LGR	14-15	Light grey	1000	100	0.277	2140152
2962 18 LGR	16-18	Light grey	1200	100	0.377	2140187
2962 22 LGR	19-22	Light grey	500	50	0.514	2140233
2962 28 LGR	25-28	Light grey	250	25	0.948	2140284
2962 35 LGR	32-35	Light grey	300	25	1.295	2140357
2962 42 LGR	40-42	Light grey	300	25	1.709	2140411

Can be screwed onto M6 thread.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. H mm
2962 6 LGR	6	11.5	10	15	17
2962 8 LGR	8	14	11	15	19
2962 10 LGR	10	16.5	12	15	20.5
2962 12 LGR	12	19	13	15	23
2962 15 LGR	14-15	22	14.5	18	28
2962 18 LGR	16-18	24.5	15.5	20	30
2962 22 LGR	19-22	29.2	17	22	34
2962 28 LGR	25-28	38.8	20	25	41
2962 35 LGR	32-35	47	22	32	51
2962 42 LGR	40-42	54	23	32	58

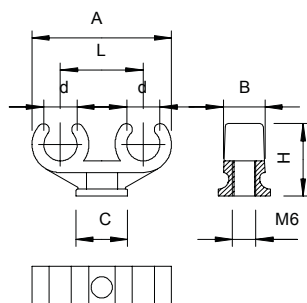
Base clamp clip, double



Type	Size	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2962 2X10	10 + 10	Light grey	100	0.283	2140608
2962 2x16	15/16 + 15/16	Light grey	50	0.809	2140683
2962 2x22	18/22 + 18/22	Light grey	25	1.064	2140721

Can be screwed onto M6 thread.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. L mm	Dim. H mm
2962 2X10	10	40.5	12	Ø 15	24	21
2962 2x16	15-16	57.5	15.5	20 x 33	33	30
2962 2x22	18-22	67	17	22 x 38	38	34



PA



Type	Dimension mm	Max. bundle Ø mm	Minimum breaking load kN	Colour	Pack Piece	Weight kg/100 pc.	Item no.
CTC 7,5x180 LGR	16 - 32	32	0.36	Light grey	100	0.600	2332790
CTC 7,5x280 LGR	40 - 63	63	0.36	Light grey	100	0.900	2332794

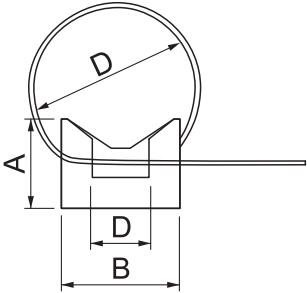
With the cable tie clip from OBO Bettermann, you can profit from faster and more reliable fastening of cables and pipes. The internally toothed cable tie ensures a secure hold and can be adapted to up to 4 pipe sizes. The CTC cable tie clip is made of halogen-free polyamide and can thus be used easily in interiors and protected external areas.

CTC cable tie clip



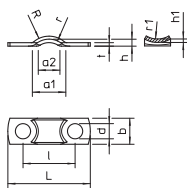
Type	Length mm	Width mm	Height mm
CTC 7,5x180 LGR	180	7,5	1,5
CTC 7,5x280 LGR	281	7,5	1,5

Dimensions



Strain relief clip 7901

St G

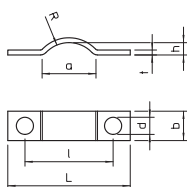
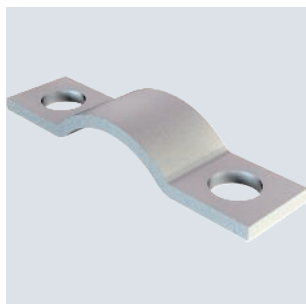


Type	For cable Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
7901 5 G	5	3,5	0,8	100	0.063	1435019
7901 6.5 G	6.5	3,2	1	100	0.115	1435027

Fastening clip for strain relief of cables.

Strain relief clip 7902

St G

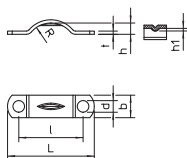


Type	For cable Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
7902 6 G	6,5	3,5	1	100	0.096	1436015
7902 8 G	8	4	1	100	0.159	1436023

Fastening clip for strain relief of cables.

Strain relief clip 7903

St G

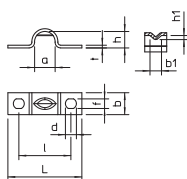
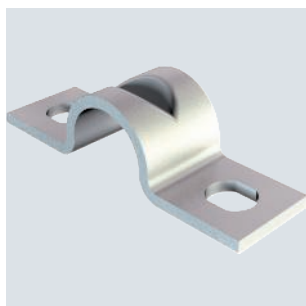


Type	For cable Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
7903 6 G	6	2,5	0,5	100	0.105	1437003
7903 8 G	8	3,6	0,8	100	0.130	1437011
7903 9 G	9	4,5	1	100	0.244	1437038

Fastening clip for strain relief of cables.

Strain relief clip 7904

St G



Type	For cable Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
7904 6 G	6	3,5x4	1	100	0.185	1438018

Fastening clip for strain relief of cables.

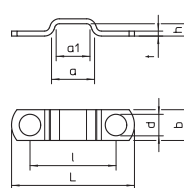


St G

Strain relief clip 7905

Type	For cable Ø mm	Hole size mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
7905 5 G	5	3,5	0.8	100	0.054	1439014

Fastening clip for strain relief of cables.

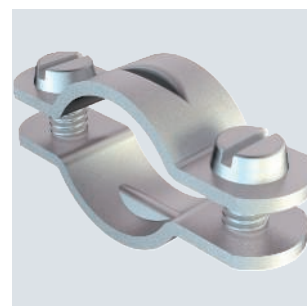
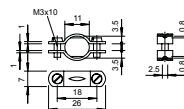


St G

Strain relief clip 7908

Type	For cable Ø mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
7908 11 G	11	1	100	0.433	1442015

Fastening clip for strain relief of cables.

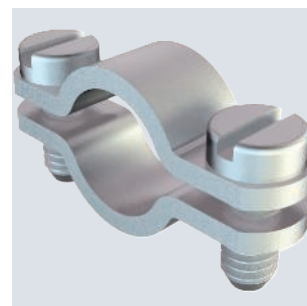
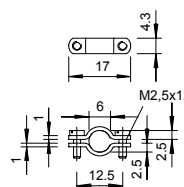


St G

Strain relief clip 7909

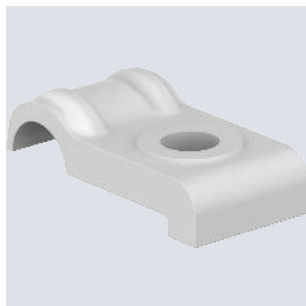
Type	For cable Ø mm	Material thickness mm	Pack Piece	Weight kg/100 pc.	Item no.
7909 6 G	6	1	100	0.198	1443011

Fastening clip for strain relief of cables.



ISO nail clip 4028 2-4

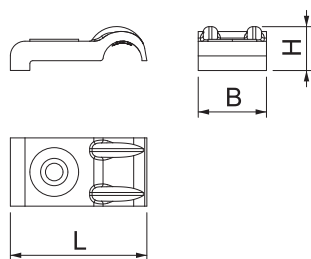
PP



	For cable Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
Type	mm				
4028	2-4	Light grey	100	0.017	2215047

OBO makes various fastening systems available for fastening cables securely on different substrates. Starting with the adhesive clip or ISO nail clips for fastening, e.g. on wooden beams, up to the Nail-Fix for fixing in masonry slits, OBO can offer a wide range of clips for nail fastening, suitable for steel nails 2 mm.

Dimensions



	For cable Ø	Dim. B	Dim. L	Dim. H	Dim. H1
Type	mm	mm	mm	mm	mm
4028	2-4	7	14.5	4.5	1.5

ISO nail clip, type 4029 4-7

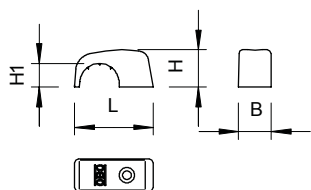
PP



	For cable Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
Type	mm				
4029	4-7	Light grey	100	0.028	2215071

OBO makes various fastening systems available for fastening cables securely on different substrates. Starting with the adhesive clip or ISO nail clips for fastening, e.g. on wooden beams, up to the Nail-Fix for fixing in masonry slits, OBO can offer a wide range of clips for nail fastening, suitable for steel nails 2 mm.

Dimensions



	For cable Ø	Dim. B	Dim. L	Dim. H	Dim. H1
Type	mm	mm	mm	mm	mm
4029	4-7	7.2	15	7	3.7



PP

ISO nail clip 40301 7-11

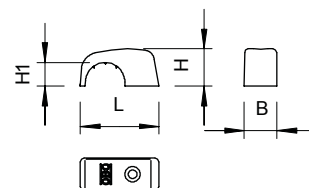
Type	For cable Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
	mm				
4030	7-11	Light grey	100	0.053	2215101

OBO makes various fastening systems available for fastening cables securely on different substrates. Starting with the adhesive clip or ISO nail clips for fastening, e.g. on wooden beams, up to the Nail-Fix for fixing in masonry slits, OBO can offer a wide range of clips for nail fastening, suitable for steel nails 2 mm.



Type	For cable Ø	Dim. B	Dim. L	Dim. H	Dim. H1
	mm	mm	mm	mm	mm
4030	7-11	8.3	20	9.5	6

Dimensions



PP

ISO nail clip 4031 10-14

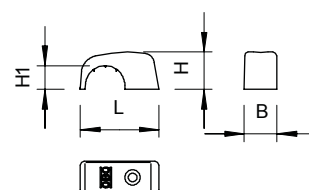
Type	For cable Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
	mm				
4031 10-14	10-14	Light grey	100	0.104	2215144

OBO makes various fastening systems available for fastening cables securely on different substrates. Starting with the adhesive clip or ISO nail clips for fastening, e.g. on wooden beams, up to the Nail-Fix for fixing in masonry slits, OBO can offer a wide range of clips for nail fastening, suitable for steel nails 2 mm.



Type	For cable Ø	Dim. B	Dim. L	Dim. H	Dim. H1
	mm	mm	mm	mm	mm
4031 10-14	10-14	10	27	12.5	7.6

Dimensions



ISO nail clip 4031 14-17

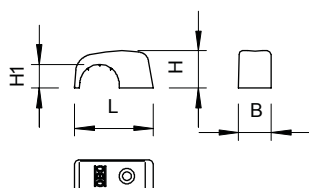
PP



Type	For cable Ø	Colour	Pack	Weight	Item no.
	mm		Piece	kg/100 pc.	
4031 14-17	14-17	Light grey	100	0.155	2215179

OBO makes various fastening systems available for fastening cables securely on different substrates. Starting with the adhesive clip or ISO nail clips for fastening, e.g. on wooden beams, up to the Nail-Fix for fixing in masonry slits, OBO can offer a wide range of clips for nail fastening, suitable for steel nails 2 mm.

Dimensions



Type	For cable Ø	Dim. B	Dim. L	Dim. H	Dim. H1
	mm	mm	mm	mm	mm
4031 14-17	14-17	11	33	15.8	11

ISO nail clip 4032 16-20

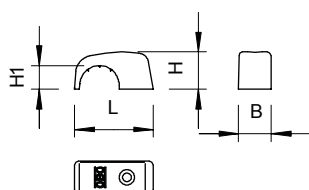
PP



Type	For cable Ø	Colour	Pack	Weight	Item no.
	mm		Piece	kg/100 pc.	
4032 16-20	16-20	Light grey	100	0.214	2215209

OBO makes various fastening systems available for fastening cables securely on different substrates. Starting with the adhesive clip or ISO nail clips for fastening, e.g. on wooden beams, up to the Nail-Fix for fixing in masonry slits, OBO can offer a wide range of clips for nail fastening, suitable for steel nails 2 mm.

Dimensions



Type	For cable Ø	Dim. B	Dim. L	Dim. H	Dim. H1
	mm	mm	mm	mm	mm
4032 16-20	16-20	12	37	17.5	12



PS



	For cable Ø	Colour	Pack Piece	Weight kg/100 pc.	Item no.
Type	mm				
3030 2	7-11	Light grey	100	0.084	2213117

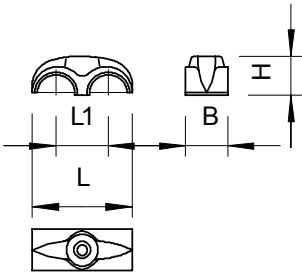
Nail clips to fasten two cables.

Double ISO nail clip



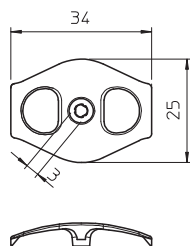
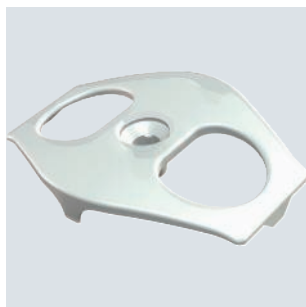
	For cable Ø	Dim. B	Dim. L1	Dim. L	Dim. H
Type	mm	mm	mm	mm	mm
3030 2	7-11	9	14	27	10.5

Dimensions



Nail-Fix, without nail

PP

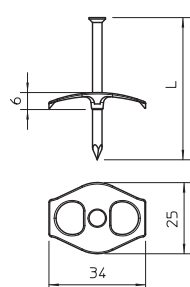


Type	For nail Ø x l mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
1996 O	3,0-3,5	Transparent	100	0.053	2222809

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

PP



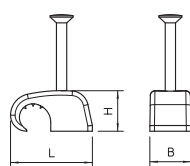
Type	For nail Ø x l mm	Colour	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
1996 40	3 x 40	Transparent	1200	100	0.267	2222833
1996 50	3,5 x 50	Transparent	1200	100	0.380	2222841
1996 60	3,5 x 60	Transparent	1200	100	0.443	2222868
1996 70	3,5 x 70	Transparent	1200	100	0.773	2222876

With pre-mounted, galvanised steel nail Ø 3 mm or 3.5 mm to fix cables in masonry slots and on masonry for one or two cables NYM 3 x 1.5/2.5 mm² or one or two cables NYM 5 x 1.5/2.5 mm².

Adhesive clips

Adhesive clip 2025, light grey

PP



Type	For nail Ø x l mm	For cable Ø mm	Colour	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2025 18 LGR	2 x 18	4-7	Light grey	14.5	7.2	7.1	100	0.072	2228610
2025 25 LGR	2 x 25	4-7	Light grey	14.5	7.2	7.1	100	0.086	2228629

Adhesive clip, for clamping to the cable.

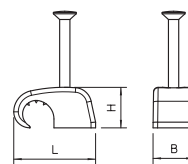
PP



Adhesive clip, pure white

Type	For nail Ø x l mm	For cable Ø mm	Colour	Dim. L mm	Dim. B mm	Dim. H mm	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2025 18 RW	2,0x18	4-7	Pure white	14.5	7.2	7.1	4800	100	0.072	2228686
2025 25 RW	2,0x25	4-7	Pure white	14.5	7.2	7.1	4800	100	0.086	2228688

Adhesive clip, for clamping to the cable.



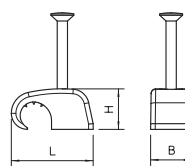
PP



Adhesive clip 2026, light grey

Type	For nail Ø x l mm	For cable Ø mm	Colour	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2026 18 LGR	2x18	7-12	Light grey	19.1	8.3	10.1	100	0.097	2228718
2026 25 LGR	2x25	7-12	Light grey	19.1	8.3	10.1	100	0.110	2228726
2026 25 LGR SP	2x25	7-12	Light grey	19.1	8.3	10.1	200	0.111	2228432
2026 35 LGR	2x35	7-12	Light grey	19.1	8.3	10.1	100	0.135	2228734
2026 35 LGR SP	2x35	7-12	Light grey	19.1	8.3	10.1	200	0.135	2228440
2026 45 LGR	2x45	7-12	Light grey	19.1	8.3	10.1	100	0.156	2228750

Adhesive clip, for clamping to the cable.



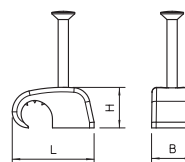
PP



Adhesive clip 2026, pure white

Type	For nail Ø x l mm	For cable Ø mm	Colour	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2026 25 RW	2,0x25	7-12	Pure white	19.1	8.3	10.1	100	0.111	2228422
2026 18 RW	2,0x18	7-12	Pure white	19.1	8.3	10.1	100	0.097	2228420

Adhesive clip, for clamping to the cable.



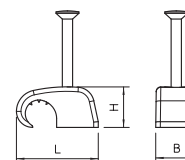
PP



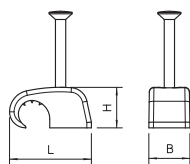
Adhesive clip 2027, light grey

Type	For nail Ø x l mm	For cable Ø mm	Colour	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2027 25 LGR	2,0x25	10-14	Light grey	28	10	13.3	100	0.161	2228823
2027 30 LGR	2,0x30	10-14	Light grey	28	10	13.3	100	0.172	2228831
2027 40 LGR	2,0x40	10-14	Light grey	28	10	13.3	100	0.196	2228858

Adhesive clip, for clamping to the cable.



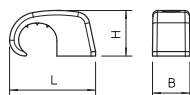
Adhesive clip, type 2028, light grey



Type	For nail Ø x l mm	For cable Ø mm	Colour	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2028 40 LGR	2,0 x 40	14-17	Light grey	32	15	17.8	100	0.270	2228904

Adhesive clip, for clamping to the cable.

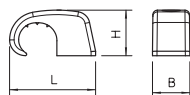
Adhesive clip, type 4039, without nail, light grey



Type	For nail Ø x l mm	For cable Ø mm	Colour	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
4039	2	4-7	Light grey	14.5	7.2	7.1	100	0.028	2215306
4039 SP	2	4-7	Light grey	14.5	7.2	7.1	200	0.028	2214873

Adhesive clip, for clamping to the cable, suitable for steel nails 2 mm.

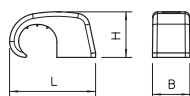
Adhesive clip 4040, without nail



Type	For nail Ø x l mm	For cable Ø mm	Colour	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
4040	2	7-12	Light grey	19.1	8.3	10.1	100	0.053	2215314
4040 SP	2	7-12	Light grey	19.1	8.3	10.1	200	0.053	2214881

Adhesive clip, for clamping to the cable, suitable for steel nails 2 mm.

Adhesive clip, without nail



Type	For nail Ø x l mm	For cable Ø mm	Colour	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
4041	2	10-14	Light grey	28	10	13.3	100	0.106	2215349

Adhesive clip, for clamping to the cable, suitable for steel nails 2 mm.

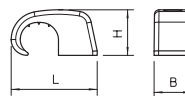
PP



Adhesive clip 4042, without nail

	For nail Ø x l	For cable Ø		Dim. L	Dim. B	Dim. H		Pack Piece	Weight kg/100 pc.	Item no.
Type	mm	mm	Colour	mm	mm	mm				
4042	2	14-17	Light grey	32	12	17.8		100	0.181	2215322

Adhesive clip, for clamping to the cable, suitable for steel nails 2 mm.



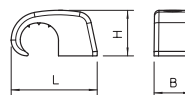
PP



Adhesive clip 4043, without nail

	For nail Ø x l	For cable Ø		Dim. L	Dim. B	Dim. H		Pack Piece	Weight kg/100 pc.	Item no.
Type	mm	mm	Colour	mm	mm	mm				
4043	2	17-21	Light grey	38	12	21.6		100	0.268	2215330

Adhesive clip, for clamping to the cable, suitable for steel nails 2 mm.



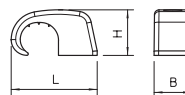
PP



Adhesive clip 4044, without nail

	For nail Ø x l	For cable Ø		Dim. L	Dim. B	Dim. H		Pack Piece	Weight kg/100 pc.	Item no.
Type	mm	mm	Colour	mm	mm	mm				
4044	2	21-25	Light grey	45	15	26.7		50	0.399	2215357

Adhesive clip, for clamping to the cable, suitable for steel nails 2 mm.



ISO nail clips

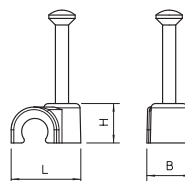
PP



ISO nail clip 2004

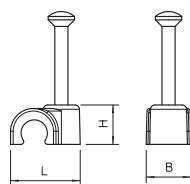
	For cable Ø	For nail Ø x l		Dim. L	Dim. B	Dim. H		Pack Piece	Weight kg/100 pc.	Item no.
Type	mm	mm	Colour	mm	mm	mm				
2004 18 LGR	4	2,0x18	Light grey	9.6	6	6.1		200	0.057	2227223
2004 25 LGR	4	2,0x25	Light grey	9.6	6	6.1		200	0.071	2227231

ISO nail clip, short design



ISO nail clip 2004

PP

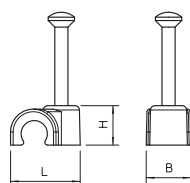


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2004 18 RW	4	2,0x18	9.6	6	6.1	Pure white	200	0.057	2225220
2004 25 RW	4	2,0x25	9.6	6	6.1	Pure white	200	0.071	2225239

ISO nail clip, short design

ISO nail clip 2005

PP

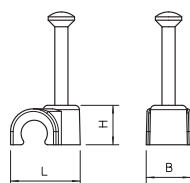


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2005 18 LGR	5	2,0x18	10.8	7.1	7.1	Light grey	100	0.063	2225347
2005 25 LGR	5	2,0x25	10.8	7.1	7.1	Light grey	100	0.077	2225339

ISO nail clip, short design

ISO nail clip 2005

PP

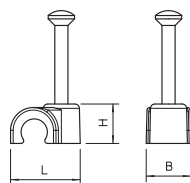


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2005 18 RW	5	2,0x18	10.8	7.1	7.1	Pure white	100	0.064	2225379
2005 25 RW	5	2,0x28	10.8	7.1	7.1	Pure white	100	0.078	2225344

ISO nail clip, short design

ISO nail clip 2006

PP



Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2006 25 LGR	6	2,0x25	12.5	8	8.1	Light grey	100	0.089	2227428
2006 35 LGR	6	2,0x35	12.5	8	8.1	Light grey	100	0.113	2227436

ISO nail clip, short design



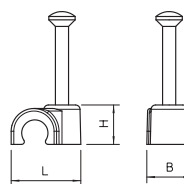
PP



ISO nail clip 2006

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2006 18 RW	6	2,0x18	12.5	8	8.1	Pure white	100	0.075	2225409
2006 25 RW	6	2,0x25	12.5	8	8.1	Pure white	100	0.089	2225417
2006 35 RW	6	2,0x35	12.5	8	8.1	Pure white	100	0.113	2225425

ISO nail clip, short design



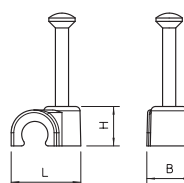
PP



ISO nail clip 2007

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2007 25 LGR	7	2,0x25	13.7	8	9.4	Light grey	100	0.083	2227517
2007 35 LGR	7	2,0x35	13.7	8	9.4	Light grey	100	0.121	2227525

ISO nail clip, short design



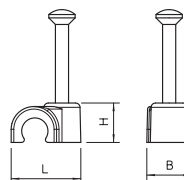
PP



ISO nail clip 2007

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2007 18 RW	7	2,0x18	13.7	8	9.4	Pure white	100	0.083	2225506
2007 25 RW	7	2,0x25	13.7	8	9.4	Pure white	100	0.097	2225514
2007 35 RW	7	2,0x35	13.7	8	9.4	Pure white	100	0.121	2225522

ISO nail clip, short design



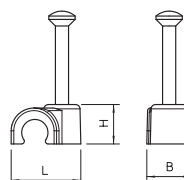
PP



ISO nail clip 2007

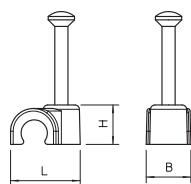
Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2007 25 SW	7	2,0x25	13.7	8	9.4	Jet black	100	0.097	2232146

ISO nail clip, short design



ISO nail clip 2008

PP

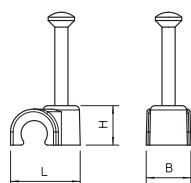


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2008 25 LGR	8	2,0x25	15	8	10.6	Light grey	100	0.103	2227614
2008 35 LGR	8	2,0x35	15	8	10.6	Light grey	100	0.127	2227622
2008 45 LGR	8	2,0x45	15	8	10.6	Light grey	100	0.148	2227630

ISO nail clip, short design

ISO nail clip 2008

PP

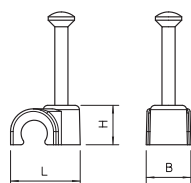


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2008 25 RW	8	2,0x25	15	8	10.6	Pure white	100	0.104	2225611
2008 35 RW	8	2,0x35	15	8	10.6	Pure white	100	0.128	2225638

ISO nail clip, short design

ISO nail clip 2008

PP

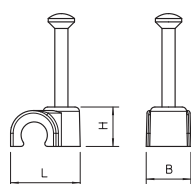


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2008 25 SW	8	2,0x25	15	8	10.6	Jet black	100	0.104	2232170

ISO nail clip, short design

ISO nail clip 2009

PP



Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2009 25 LGR	9	2,0x25	16.1	8	11.6	Light grey	100	0.109	2227711
2009 35 LGR	9	2,0x35	16.1	8	11.6	Light grey	100	0.134	2227738
2009 35 LGR SP	9	2,0x35	16.1	8	11.6	Light grey	200	0.132	2227762
2009 45 LGR	9	2,0x45	16.1	8	11.6	Light grey	100	0.153	2227746
2009 45 LGR SP	9	2,0x45	16.1	8	11.6	Light grey	200	0.155	2227797

ISO nail clip, short design



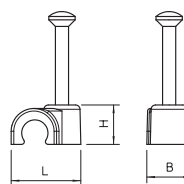
PP



ISO nail clip 2009

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2009 25 RW	9	2,0x25	16.1	8	11.6	Pure white	100	0.107	2225719
2009 35 RW	9	2,0x35	16.1	8	11.6	Pure white	100	0.131	2225727

ISO nail clip, short design.



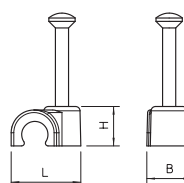
PP



ISO nail clip 2009

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2009 25 SW	9	2,0x25	16.1	8	11.6	Jet black	100	0.109	2232219

ISO nail clip, short design



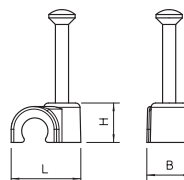
PP



ISO nail clip 2010

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2010 25 LGR	10	2,0x25	17.7	8	12.7	Light grey	100	0.122	2227800
2010 35 LGR	10	2,0x35	17.7	8	12.7	Light grey	100	0.146	2227819
2010 45 LGR	10	2,0x45	17.7	8	12.7	Light grey	100	0.167	2227827

ISO nail clip, short design



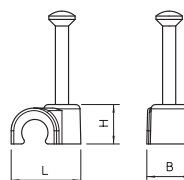
PP



ISO nail clip 2010

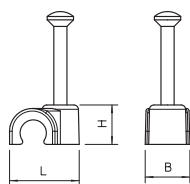
Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2010 25 RW	10	2,0x25	17.7	8	12.7	Pure white	100	0.123	2225808
2010 35 RW	10	2,0x35	17.7	8	12.7	Pure white	100	0.147	2225816

ISO nail clip, short design



ISO nail clip 2010

PP

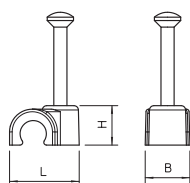


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2010 25 SW	10	2,0x25	17.7	8	12.7	Jet black	100	0.123	2232235

ISO nail clip, short design

ISO nail clip 2011

PP

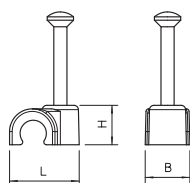


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2011 35 LGR	11	2,0x35	19	9	14	Light grey	100	0.162	2227916
2011 45 LGR	11	2,0x45	19	9	14	Light grey	100	0.183	2227924

ISO nail clip, short design

ISO nail clip 2011

PP

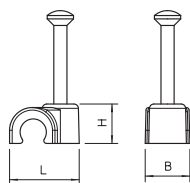


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2012 35 RW	11	2,0x35	19	9	14	Pure white	100	0.138	2225905
2011 35 RW	11	2,0x35	19	9	14	Pure white	100	0.162	2225913

ISO nail clip, short design

ISO nail clip 2012

PP



Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2012 35 LGR	12	2,0x35	19.8	9	14.8	Light grey	100	0.165	2228025
2012 45 LGR	12	2,0x45	19.8	9	14.8	Light grey	100	0.189	2228033

ISO nail clip, short design



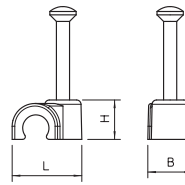
PP



ISO nail clip 2012

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2012 25 RW	12	2,0x25	19.8	9	14.8	Pure white	100	0.145	2226014
2012 35 RW	12	2,0x35	19.8	9	14.8	Pure white	100	0.169	2226022

ISO nail clip, short design



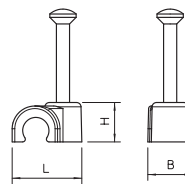
PP



ISO nail clip 2012

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2012 35 SW	12	2,0x35	19.8	9	14.8	Jet black	100	0.169	2232316

ISO nail clip, short design



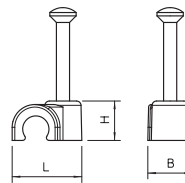
PP



ISO nail clip 2014

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2014 40 LGR	14	2,0x40	24	11	18	Light grey	50	0.466	2228114
2014 50 LGR	14	2,0x50	24	11	18	Light grey	50	0.336	2228122

ISO nail clip, short design



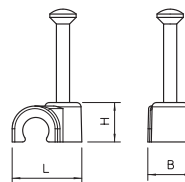
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ISO nail clip 2014

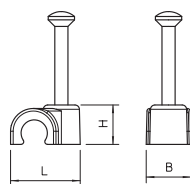
Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2014 30 RW	14	2,0x30	24	11	18	Pure white	50	0.432	2226103
2014 40 RW	14	2,0x40	24	11	18	Pure white	50	0.303	2226111

ISO nail clip, short design



ISO nail clip 2016

PP

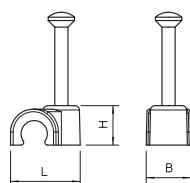


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2016 40 LGR	16	2,0x40	26	12	20	Light grey	50	0.402	2228211
2016 50 LGR	16	2,0x50	26	12	20	Light grey	50	0.361	2228238

ISO nail clip, short design

ISO nail clip 2016

PP

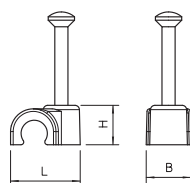


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2016 40 RW	16	2,0x40	26	12	20	Pure white	50	0.320	2226219

ISO nail clip, short design

ISO nail clip 2018

PP

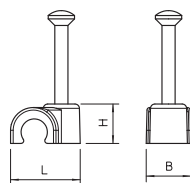


Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2018 40 LGR	18	2,0x40	28	13	22	Light grey	25	0.548	2228308
2018 50 LGR	18	2,0x50	28	13	22	Light grey	25	0.700	2228319

ISO nail clip, short design

ISO nail clip 2020

PP



Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2020 40 LGR	20	2,0x40	31	14	24.5	Light grey	25	0.418	2228408
2020 50 LGR	20	2,0x50	31	14	24.5	Light grey	25	0.463	2228416

ISO nail clip, short design



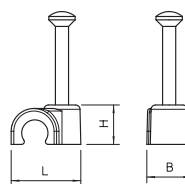
PP



ISO nail clip, type 2020

Type	For cable Ø mm	For nail Ø x l mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2020 40 RW	20	2,0x40	31	14	24,5	Pure white	25	0.419	2226405

ISO nail clip, short design



Cable clips, self-adhesive

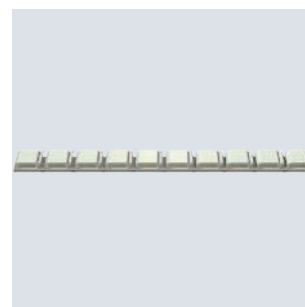
PS



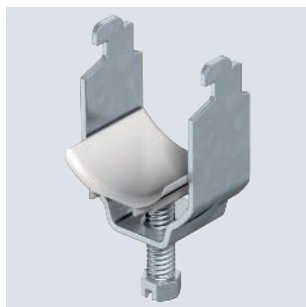
Cable clip

Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
507	Light grey	100	1.200	2327104

Self-adhesive



Clamp clip, single, plastic pressure trough



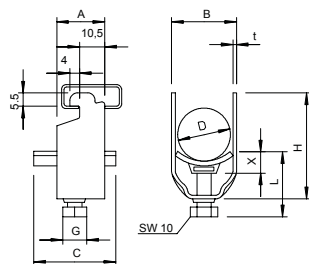
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056N 12 FT	8-12	100	2.500	1163124
2056N 16 FT	12-16	100	2.750	1163167
2056N 22 FT	16-22	100	3.100	1163221
2056N 28 FT	22-28	100	4.600	1163280
2056N 34 FT	28-34	100	5.900	1163345
2056N 40 FT	34-40	100	5.970	1163396
2056N 46 FT	40-46	100	6.640	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. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Dim. J mm	Dim. K 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				

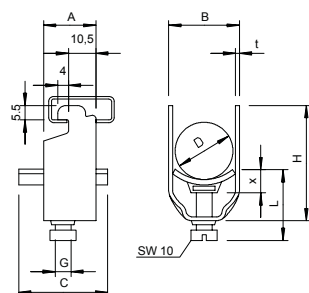
Clamp clip, single, plastic pressure trough



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056N 12 ALU	8-12	50	0.900	1183605
2056N 16 ALU	12-16	50	1.090	1183613
2056N 22 ALU	16-22	50	1.200	1183621
2056N 28 ALU	22-28	50	1.700	1183648
2056N 34 ALU	28-34	50	2.200	1183656
2056N 40 ALU	34-40	50	2.350	1183664
2056N 46 ALU	40-46	50	2.550	1183672
2056N 52 ALU	46-52	50	2.880	1183680
2056N 58 ALU	52-58	50	4.100	1183699

Suitable for all profile rails with slot width 11–12 mm; at least 6.5 mm clear internal height and at least 18.5 mm clear internal width; aluminium ALMg3 clip and bolt, polypropylene pressure trough, halogen-free, light grey RAL 7035.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Dim. J mm	Dim. K mm	Dim. L mm	Max. torque Nm
2056N 12 ALU	8-12	20	16	34	M6	1.5	5	34	38	2				
2056N 16 ALU	12-16	20	20	34	M6	1.5	5	38	38	2				
2056N 22 ALU	16-22	20	27	34	M6	1.5	5	44	41	2				
2056N 28 ALU	22-28	20	33	34	M6	2	5	51	42	2				
2056N 34 ALU	28-34	20	39	34	M8	2	5.5	59	52	2				
2056N 40 ALU	34-40	20	45	34	M8	2	5.5	66	54	2				
2056N 46 ALU	40-46	20	51	40	M8	2	5.5	72	55	2				
2056N 52 ALU	46-52	20	57	40	M8	2	6.5	79	57	2				
2056N 58 ALU	52-58	23	64	40	M8	2.5	6.5	86	58	2				



Clamp clip, single, plastic pressure trough

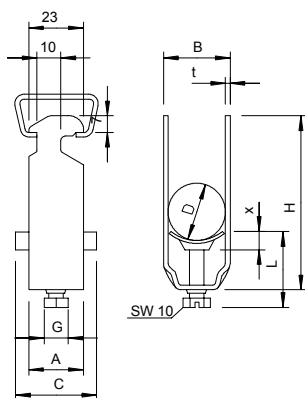


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 12 FT	8-12	100	3.540	1160125
2056 16 FT	12-16	100	3.820	1160168
2056 22 FT	16-22	100	4.508	1160222
2056 28 FT	22-28	100	6.240	1160281
2056 34 FT	28-34	100	7.680	1160346
2056 40 FT	34-40	100	8.260	1160400
2056 46 FT	40-46	100	10.900	1160451
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.

Dimensions



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



Clamp clip, single, plastic pressure trough

Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 12 A2	8-12	50	3.300	1159518
2056 16 A2	12-16	50	3.600	1159526
2056 22 A2	16-22	50	4.200	1159534
2056 28 A2	22-28	50	6.500	1159542
2056 34 A2	28-34	50	7.400	1159550
2056 40 A2	34-40	25	8.000	1159569
2056 46 A2	40-46	25	10.900	1159577
2056 52 A2	46-52	25	11.400	1159585
2056 58 A2	52-58	25	14.500	1159593
2056 64 A2	58-64	15	15.600	1159607
2056 70 A2	64-70	15	18.200	1159615
2056 76 A2	70-76	10	20.800	1159623

Suitable for all C profile rails with slot width 16–17 mm.

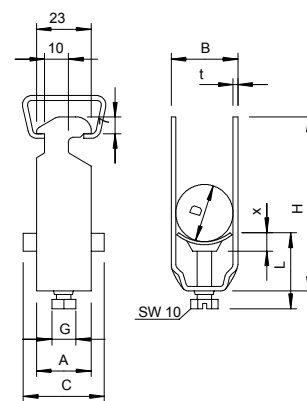
Clip and bolt.

Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.



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 A2	8-12	23	16	34	M6	1.5	5	40	34	3
2056 16 A2	12-16	23	20	34	M6	1.5	5	44	34	3
2056 22 A2	16-22	23	27	34	M6	1.5	5	50	34	3
2056 28 A2	22-28	23	33	34	M6	2	5	58	34	3
2056 34 A2	28-34	23	39	34	M8	2	5.5	66	34	5
2056 40 A2	34-40	23	45	34	M8	2	5.5	72	37.5	5
2056 46 A2	40-46	23	51	40	M8	2	5.5	79	44.5	5
2056 52 A2	46-52	23	57	40	M8	2	6.5	86	44.5	5
2056 58 A2	52-58	23	64	40	M8	2.5	6.5	93	45.5	5
2056 64 A2	58-64	23	70	40	M8	2.5	6.5	99	45.5	5
2056 70 A2	64-70	23	76	40	M8	2.5	6.5	106	45.5	5
2056 76 A2	70-76	25	82	40	M8	2.5	6.5	114	45.5	5

Dimensions



Clamp clip, single, plastic pressure trough

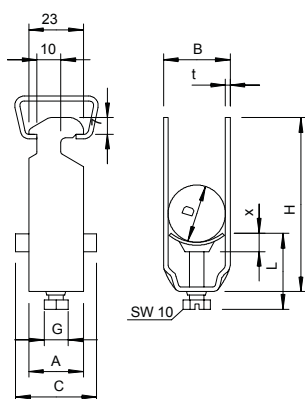
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Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 12 ALU	8-12	100	0.750	1183206
2056 16 ALU	12-16	100	0.900	1183214
2056 22 ALU	16-22	100	1.050	1183222
2056 28 ALU	22-28	100	1.500	1183230
2056 34 ALU	28-34	100	2.300	1183249
2056 40 ALU	34-40	100	2.700	1183257
2056 46 ALU	40-46	100	3.600	1183265
2056 52 ALU	46-52	100	3.900	1183273
2056 58 ALU	52-58	50	4.200	1183281
2056 64 ALU	58-64	50	4.500	1183303
2056 70 ALU	64-70	50	5.400	1183311
2056 76 ALU	70-76	25	5.850	1183338

Suitable for all C profile rails with 16–17 mm slot width; aluminium ALMg 3 clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056 12 ALU	8-12	23	16	34	M6	1.5	5	40	2
2056 16 ALU	12-16	23	20	34	M6	1.5	5	44	2
2056 22 ALU	16-22	23	27	34	M6	1.5	5	50	2
2056 28 ALU	22-28	23	33	34	M6	2	5	58	2
2056 34 ALU	28-34	23	39	34	M8	2	5.5	66	2
2056 40 ALU	34-40	23	45	34	M8	2	5.5	72	2
2056 46 ALU	40-46	23	51	40	M8	2	5.5	79	2
2056 52 ALU	46-52	23	57	40	M8	2	6.5	86	2
2056 58 ALU	52-58	23	64	40	M8	2.5	6.5	93	2
2056 64 ALU	58-64	23	70	40	M8	2.5	6.5	99	2
2056 70 ALU	64-70	23	76	40	M8	2.5	6.5	106	2
2056 76 ALU	70-76	25	82	40	M8	2.5	6.5	114	2





Clamp clip, single, metal pressure trough

Type	Pack Piece	Weight kg/100 pc.	Item no.
2056 M 12 FT	100	3.200	1156004
2056 M 16 FT	100	3.500	1156012
2056 M 22 FT	100	4.400	1156020
2056 M 28 FT	100	6.100	1156039
2056 M 34 FT	100	7.700	1156047
2056 M 40 FT	100	8.600	1156055
2056 M 46 FT	100	9.600	1156063
2056 M 52 FT	100	10.400	1156071
2056 M 58 FT	100	13.100	1156098
2056 M 64 FT	100	14.500	1156101
2056 M 70 FT	50	16.100	1156128
2056 M 76 FT	25	18.300	1156136
2056 M 82 FT	25	19.100	1156144
2056 M 90 FT	25	23.300	1156152
2056 M 100 FT	25	24.500	1156160

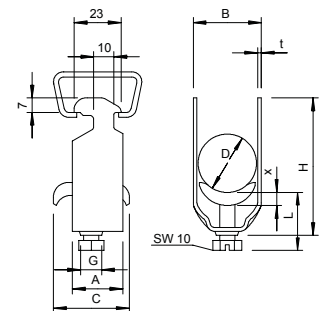
Suitable for all C profile rails with slot width 16–17 mm.

Clip, bolt and pressure trough made of hot-dip galvanised steel.



Type	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 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

Dimensions



Clamp clip, single, metal pressure trough

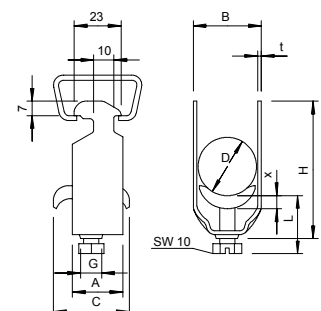
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 M 12 A2	8-12	50	3.200	1159712
2056 M 16 A2	12-16	50	3.500	1159716
2056 M 22 A2	16-22	50	4.400	1159722
2056 M 28 A2	22-28	25	6.100	1159728
2056 M 34 A2	28-34	25	7.700	1159734
2056 M 40 A2	34-40	25	8.600	1159740
2056 M 46 A2	40-46	25	9.600	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.

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 M 12 A2	8-12	23	16	30	M6	1.5	3.5	44	32.5	3
2056 M 16 A2	12-16	23	20	30	M6	1.5	3.5	44	32.5	3
2056 M 22 A2	16-22	23	27	30	M6	1.5	3.5	60	32.5	3
2056 M 28 A2	22-28	23	33	30	M6	2	5	58	44	3
2056 M 34 A2	28-34	23	39	35	M8	2	5	66	44	5
2056 M 40 A2	34-40	23	45	35	M8	2	5	72	44	5
2056 M 46 A2	40-46	23	51	35	M8	2	5	79	44	5
2056 M 52 A2	46-52	23	57	35	M8	2	5	86	44	5
2056 M 58 A2	52-58	23	64	35	M8	2	5	93	44	5
2056 M 64 A2	58-64	23	70	35	M8	2.5	5	99	56	5
2056 M 70 A2	64-70	25	76	35	M8	2.5	5	106	56	5
2056 M 76 A2	70-76	25	82	40	M8	2.5	5	114	56	5

Dimensions



Clamp clip, double, plastic pressure trough

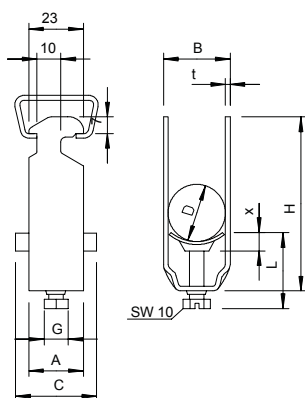


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 2 12 FT	8-12	50	4.100	1161121
2056 2 16 FT	12-16	50	4.650	1161164
2056 2 22 FT	16-22	50	5.120	1161229
2056 2 28 FT	22-28	50	7.700	1161288
2056 2 34 FT	28-34	50	10.200	1161342
2056 2 40 FT	34-40	50	11.450	1161407
2056 2 46 FT	40-46	50	11.753	1161466
2056 2 52 FT	46-52	50	16.700	1161520
2056 2 58 FT	52-58	50	21.400	1161571
2056 2 64 FT	58-64	50	24.250	1161644

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.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Dim. J mm	Max. torque Nm
2056 2 12 FT	8-12	23	16	34	M6	1.5	4.5	52	34	3		
2056 2 16 FT	12-16	23	20	34	M6	1.5	4.5	61	34	3		
2056 2 22 FT	16-22	23	27	34	M6	1.5	5	73	47	3		
2056 2 28 FT	22-28	23	33	34	M6	2	5	87	47	3		
2056 2 34 FT	28-34	23	39	34	M8	2	6	101	44.5	5		
2056 2 40 FT	34-40	23	45	34	M8	2	6	114	44.5	5		
2056 2 46 FT	40-46	23	51	40	M8	2	6	129	44.5	5		
2056 2 52 FT	46-52	23	57	40	M8	2	6.5	129	45.5	5		
2056 2 58 FT	52-58	23	64	40	M8	2.5	6.5	154	45.5	5		
2056 2 64 FT	58-64	23	70	40	M8	2.5	6.5	167	44.5	5		

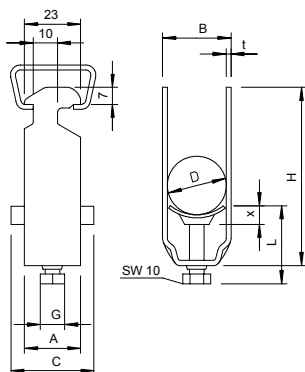
Clamp clip, double, plastic pressure trough



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 2 22 A2	16-22	50	5.150	1161822
2056 2 28 A2	22-28	50	7.700	1161830
2056 2 34 A2	28-34	50	10.200	1161849
2056 2 40 A2	34-40	25	14.350	1161857
2056 2 46 A2	40-46	25	14.950	1161865
2056 2 52 A2	46-52	25	16.700	1161873
2056 2 58 A2	52-58	25	21.400	1161881
2056 2 64 A2	58-64	15	24.250	1161903

Suitable for all C profile rails with slot width 16–17 mm; stainless steel clip and bolt, polypropylene pressure trough, halogen-free, light grey RAL 7035.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Dim. J mm	Max. torque Nm
2056 2 22 A2	16-22	23	27	34	M6	1.5	5	73	47	3		
2056 2 28 A2	22-28	23	33	34	M6	2	5	87	47	3		
2056 2 34 A2	28-34	23	39	34	M8	2	6	101	44.5	5		
2056 2 40 A2	34-40	23	45	34	M8	2	6	114	44.5	5		
2056 2 46 A2	40-46	23	51	40	M8	2	6	129	44.5	5		
2056 2 52 A2	46-52	23	57	40	M8	2	6.5	129	45.5	5		
2056 2 58 A2	52-58	23	64	40	M8	2.5	6.5	154	45.5	5		
2056 2 64 A2	58-64	23	70	40	M8	2.5	6.5	167	44.5	5		

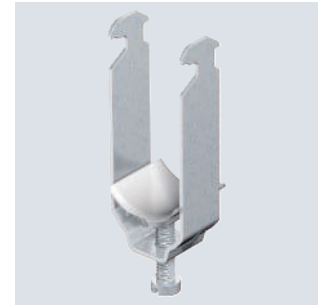
Alu



Clamp clip, double, plastic pressure trough

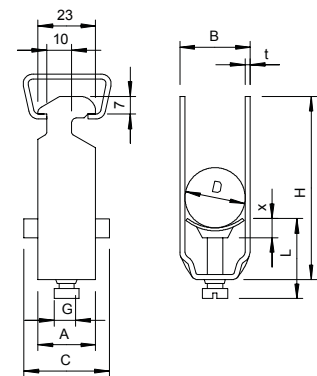
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 2 12 ALU	8-12	50	1.000	1183389
2056 2 16 ALU	12-16	50	1.250	1183397
2056 2 22 ALU	16-22	50	1.500	1183400
2056 2 28 ALU	22-28	50	2.000	1183419
2056 2 34 ALU	28-34	50	3.200	1183427
2056 2 40 ALU	34-40	50	3.750	1183435
2056 2 46 ALU	40-46	50	4.850	1183443
2056 2 52 ALU	46-52	50	5.300	1183451
2056 2 58 ALU	52-58	50	6.000	1183478

Suitable for all C profile rails with 16–17 mm slot width; aluminium ALMg 3 clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Max. torque Nm
2056 2 12 ALU	8-12	23	16	34	M6	1.5	4.5	52	34	2	
2056 2 16 ALU	12-16	23	20	34	M6	1.5	4.5	61	34	2	
2056 2 22 ALU	16-22	23	27	34	M6	1.5	5	73	47	2	
2056 2 28 ALU	22-28	23	33	34	M6	2	5	87	47	2	
2056 2 34 ALU	28-34	23	39	34	M8	2	6	101	44.5	2	
2056 2 40 ALU	34-40	23	45	34	M8	2	6	114	44.5	2	
2056 2 46 ALU	40-46	23	51	40	M8	2	6	129	44.5	2	
2056 2 52 ALU	46-52	23	57	40	M8	2	6.5	129	45.5	2	
2056 2 58 ALU	52-58	23	64	40	M8	2.5	6.5	154	45.5	2	

Dimensions



St FT



Clamp clip, double, metal pressure trough

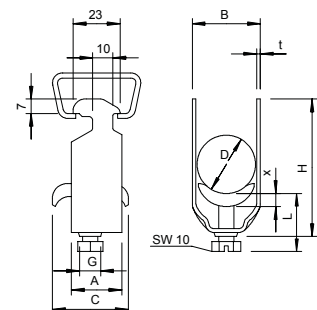
Type	Pack Piece	Weight kg/100 pc.	Item no.
2056 M2 12 FT	50	3.980	1156179
2056 M2 16 FT	50	4.750	1156187
2056 M2 22 FT	50	6.900	1156195
2056 M2 28 FT	50	7.800	1156209

Suitable for all C profile rails with slot width 16–17 mm.
Clip, bolt and pressure trough made of hot-dip galvanised steel.



Type	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Max. torque Nm
2056 M2 12 FT	23	16	34	M6	1.5	5	52	34	3	
2056 M2 16 FT	23	20	34	M6	1.5	5	61	34	3	
2056 M2 22 FT	23	27	34	M6	1.5	5	73	47	3	
2056 M2 28 FT	23	33	34	M6	2	5	87	47	3	

Dimensions



Clamp clip, triple, plastic pressure trough

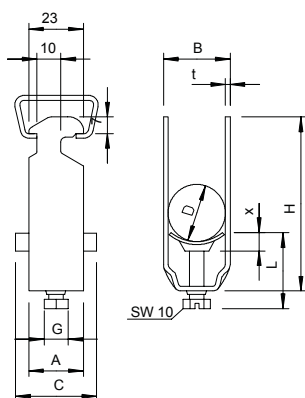


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 3 12 FT	8-12	50	4.900	1162128
2056 3 16 FT	12-16	50	6.200	1162160
2056 3 22 FT	16-22	50	7.100	1162225
2056 3 28 FT	22-28	50	10.650	1162284
2056 3 34 FT	28-34	50	13.100	1162349
2056 3 40 FT	34-40	50	14.350	1162403
2056 3 46 FT	40-46	25	19.800	1162462

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.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Dim. J mm	Max. torque Nm
2056 3 12 FT	8-12	23	16	34	M6	1.5	5	70	47	3		
2056 3 16 FT	12-16	23	20	34	M6	1.5	5	82	47	3		
2056 3 22 FT	16-22	23	27	34	M6	1.5	5	101	47	3		
2056 3 28 FT	22-28	23	33	34	M6	2	5	121	47	3		
2056 3 34 FT	28-34	23	39	34	M8	2	6	142	56.5	5		
2056 3 40 FT	34-40	23	45	34	M8	2	6	162	56.5	5		
2056 3 46 FT	40-46	23	51	40	M8	2	6	184	56.5	5		

Clamp clip, triple, metal pressure trough

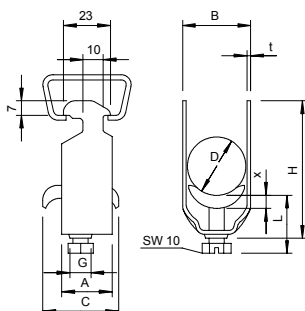


Type	Pack Piece	Weight kg/100 pc.	Item no.
2056 M3 12 FT	50	4.050	1156241
2056 M3 16 FT	50	5.800	1156268
2056 M3 22 FT	50	6.500	1156276
2056 M3 28 FT	50	9.500	1156284

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. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Max. torque Nm
2056 M3 12 FT	23	16	34	M6	1.5	5	70	47	3	
2056 M3 16 FT	23	20	34	M6	1.5	5	82	47	3	
2056 M3 22 FT	23	27	34	M6	1.5	5	101	47	3	
2056 M3 28 FT	23	33	34	M6	2	5	121	47	3	

Alu



Clamp clip, triple, plastic pressure trough

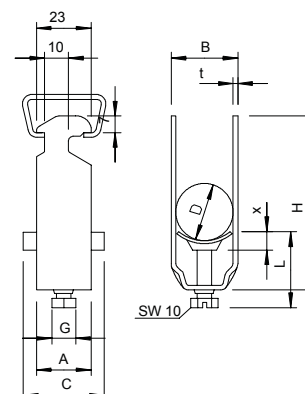
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 3 22 ALU	16-22	50	2.050	1183524
2056 3 28 ALU	22-28	50	2.900	1183532
2056 3 34 ALU	28-34	50	4.200	1183540

Suitable for all C profile rails with 16–17 mm slot width; aluminium ALMg 3 clamp and bolt, polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. sion G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056 3 22 ALU	16-22	23	27	34	M6	1.5	5	101	47	2
2056 3 28 ALU	22-28	23	33	34	M6	2	5	121	47	2
2056 3 34 ALU	28-34	23	39	34	M8	2	6	142	56.5	2

Dimensions



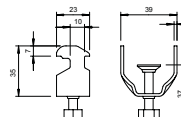
St FT



Clamp clip, fastening earthing strips

Type	For rail with slot width mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 BE FT	16-17	25	4.700	1174053

To fasten earthing strips with widths of up to 30 mm to profile rails, suitable for all C profile rails with 16–17 mm slot width.



Clamp clip, single, plastic pressure trough

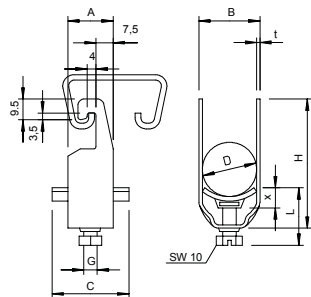


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U 12 FT	8-12	100	3.150	1175122
2056U 16 FT	12-16	100	3.600	1175165
2056U 22 FT	16-22	100	3.223	1175211
2056U 28 FT	22-28	100	4.344	1175289
2056U 34 FT	28-34	100	7.500	1175343
2056U 40 FT	34-40	100	8.100	1175408
2056U 46 FT	40-46	100	10.000	1175467
2056U 52 FT	46-52	100	11.200	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
2056U 100 FT	90-100	25	30.000	1175998

Suitable for all C profile rails with slot width 18 mm and 22 mm.

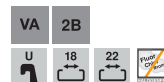
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Dim. J mm	Dim. K 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				
2056U 100 FT	90-100	25	107	40	M8	3	6.5	135	45.5	5				

Clamp clip, single, plastic pressure trough

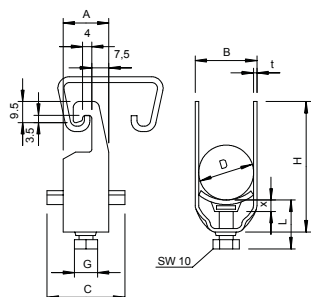


Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U 12 A2	8-12	50	3.000	1178504
2056U 16 A2	12-16	50	3.200	1178512
2056U 22 A2	16-22	50	3.800	1178520
2056U 28 A2	22-28	50	5.350	1178539
2056U 34 A2	28-34	50	7.200	1178547
2056U 40 A2	34-40	25	8.100	1178555
2056U 46 A2	40-46	25	9.900	1178563
2056U 52 A2	46-52	25	11.200	1178571
2056U 58 A2	52-58	25	13.400	1178598
2056U 64 A2	58-64	15	14.300	1178601
2056U 70 A2	64-70	15	20.500	1178628
2056U 76 A2	70-76	10	19.100	1178636

Suitable for all C profile rails with slot width 18 mm and 22 mm.

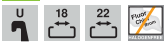
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. E mm	Dim. F mm	Dim. G mm	Dim. H mm	Dim. I mm	Dim. J mm	Dim. K mm	Dim. L mm	Max. torque Nm
2056U 12 A2	8-12	20	16	34	M6	1.5	5	42	34	3				
2056U 16 A2	12-16	20	20	34	M6	1.5	5	46	34	3				
2056U 22 A2	16-22	20	27	34	M6	1.5	5	53	34	3				
2056U 28 A2	22-28	20	33	34	M6	2	5	59	34	3				
2056U 34 A2	28-34	20	39	34	M8	2	5.5	67	37.5	5				
2056U 40 A2	34-40	20	45	34	M8	2	5.5	73	37.5	5				
2056U 46 A2	40-46	20	51	40	M8	2	5.5	79	37.5	5				
2056U 52 A2	46-52	20	57	40	M8	2	6.5	85	38.5	5				
2056U 58 A2	52-58	23	64	40	M8	2.5	6.5	91	38.5	5				
2056U 64 A2	58-64	23	70	40	M8	2.5	6.5	97	38.5	5				
2056U 70 A2	64-70	23	76	40	M8	2.5	6.5	103	38.5	5				
2056U 76 A2	70-76	25	82	40	M8	2.5	6.5	110	45.5	5				

Alu



Clamp clip, single, plastic pressure trough

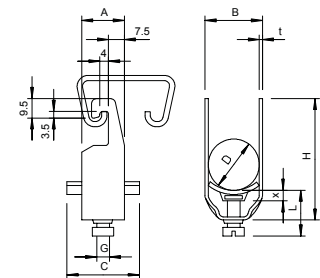
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U 12 ALU	8-12	50	1.100	1184407
2056U 16 ALU	12-16	50	1.200	1184415
2056U 22 ALU	16-22	50	1.350	1184423
2056U 28 ALU	22-28	50	1.950	1184431
2056U 34 ALU	28-34	50	2.550	1184458
2056U 40 ALU	34-40	50	2.800	1184466
2056U 46 ALU	40-46	50	3.600	1184474
2056U 52 ALU	46-52	50	3.950	1184482
2056U 58 ALU	52-58	50	4.900	1184490
2056U 64 ALU	58-64	50	5.250	1184504
2056U 70 ALU	64-70	50	5.600	1184539
2056U 76 ALU	70-76	50	7.050	1184512

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. sion G mm	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056U 12 ALU	8-12	20	16	34	M6	1.5	5	42	34	2
2056U 16 ALU	12-16	20	20	34	M6	1.5	5	46	34	2
2056U 22 ALU	16-22	20	27	34	M6	1.5	5	53	34	2
2056U 28 ALU	22-28	20	33	34	M6	2	5	59	34	2
2056U 34 ALU	28-34	20	39	34	M8	2	5.5	67	37.5	2
2056U 40 ALU	34-40	20	45	34	M8	2	5.5	73	37.5	2
2056U 46 ALU	40-46	20	51	40	M8	2	5.5	79	37.5	2
2056U 52 ALU	46-52	20	57	40	M8	2	6.5	85	38.5	2
2056U 58 ALU	52-58	23	64	40	M8	2.5	6.5	91	38.5	2
2056U 64 ALU	58-64	23	70	40	M8	2.5	6.5	103	38.5	2
2056U 70 ALU	64-70	23	76	40	M8	2.5	6.5	110	45.5	2
2056U 76 ALU	70-76	23	82	40	M8	2.5	6.5	116	45.5	2

Dimensions



St FT



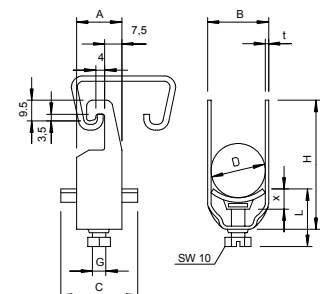
Clamp clip, single, metal pressure trough

Type	Pack Piece	Weight kg/100 pc.	Item no.
2056U M 12 FT	100	3.300	1158007
2056U M 16 FT	100	3.520	1158015
2056U M 22 FT	100	3.960	1158023
2056U M 28 FT	100	5.890	1158031
2056U M 34 FT	100	7.650	1158058
2056U M 40 FT	100	8.360	1158066
2056U M 46 FT	100	10.890	1158074
2056U M 52 FT	100	11.660	1158082
2056U M 58 FT	100	14.740	1158090
2056U M 64 FT	100	15.730	1158104
2056U M 70 FT	50	18.200	1158112
2056U M 76 FT	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. sion 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



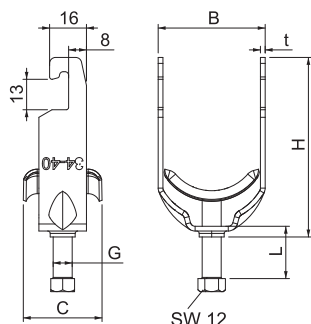
Clamp clip, single, metal pressure trough



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U M 12 A4	8-12	100	3.300	1158207
2056U M 16 A4	12-16	100	3.520	1158211
2056U M 22 A4	16-22	100	3.590	1158215
2056U M 28 A4	22-28	100	4.930	1158219
2056U M 34 A4	28-34	100	6.656	1158223
2056U M 40 A4	34-40	100	8.360	1158227
2056U M 46 A4	40-46	100	10.890	1158231
2056U M 52 A4	46-52	100	11.660	1158235
2056U M 58 A4	52-58	100	14.740	1158239
2056U M 64 A4	58-64	100	15.730	1158243
2056U M 70 A4	64-70	50	18.200	1158247
2056U M 76 A4	70-76	25	20.600	1158251

Suitable for all C profile rails with slot width 18 mm and 22 mm.

Dimensions



Type	Clamping range D mm	Dim. B mm	Dim. C mm	Dim. Dimen- sion G mm	Dim. t mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056U M 12 A4	8-12	16	34	M6	1.5	43.5	25.5	3
2056U M 16 A4	12-16	20	34	M6	1.5	47.5	25.5	3
2056U M 22 A4	16-22	27	34	M6	1.5	54.5	22	3
2056U M 28 A4	22-28	33	34	M6	2	61	22	3
2056U M 34 A4	28-34	39	34	M8	2	69	28	5
2056U M 40 A4	34-40	45	34	M8	2	75.5	28	5
2056U M 46 A4	40-46	51	40	M8	2	81.5	28	5
2056U M 52 A4	46-52	57	40	M8	2	87.5	28	5
2056U M 58 A4	52-58	64	40	M8	2.5	93.5	30	5
2056U M 64 A4	58-64	70	40	M8	2.5	99.5	30	5
2056U M 70 A4	64-70	76	40	M8	2.5	105.5	30	5
2056U M 76 A4	70-76	82	40	M8	2.5	112.5	30	5

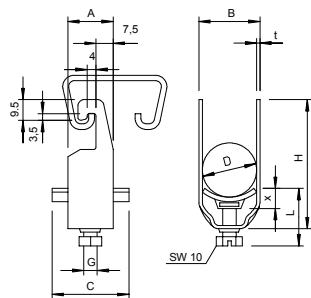
Clamp clip, double, plastic pressure trough



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U 2 12 FT	8-12	50	2.850	1176129
2056U 2 16 FT	12-16	50	3.050	1176161
2056U 2 22 FT	16-22	50	4.950	1176226
2056U 2 28 FT	22-28	50	6.940	1176285
2056U 2 34 FT	28-34	50	9.500	1176331
2056U 2 40 FT	34-40	50	11.350	1176404
2056U 2 46 FT	40-46	50	11.350	1176463
2056U 2 52 FT	46-52	50	15.050	1176528
2056U 2 58 FT	52-58	50	19.800	1176587

Suitable for all C profile rails with slot width 18 mm and 22 mm.
Polypropylene pressure sleeve, halogen-free, colour light grey RAL 7035.

Dimensions



Type	Clamping range D mm	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
2056U 2 12 FT	8-12	20	16	34	M6	1.5	5	56	34	3
2056U 2 16 FT	12-16	20	20	34	M6	1.5	5	64	34	3
2056U 2 22 FT	16-22	20	27	34	M6	1.5	5	77	47	3
2056U 2 28 FT	22-28	20	33	34	M6	2	5	89	47	3
2056U 2 34 FT	28-34	20	39	34	M8	2	5.5	103	44.5	5
2056U 2 40 FT	34-40	20	45	34	M8	2	5.5	115	44.5	5
2056U 2 46 FT	40-46	23	51	40	M8	2	5.5	128	44.5	5
2056U 2 52 FT	46-52	23	57	40	M8	2	6.5	140	45.5	5
2056U 2 58 FT	52-58	23	64	40	M8	2.5	6.5	152	45.5	5



Clamp clip, triple, plastic pressure trough

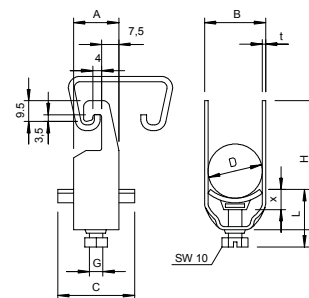
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U 3 12 FT	8-12	50	4.750	1177125
2056U 3 16 FT	12-16	50	4.850	1177168
2056U 3 22 FT	16-22	50	6.600	1177222
2056U 3 28 FT	22-28	50	10.500	1177281
2056U 3 34 FT	28-34	50	13.250	1177346
2056U 3 40 FT	34-40	50	14.400	1177400
2056U 3 46 FT	40-46	50	18.950	1177451

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	Dimen- sion G	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056U 3 12 FT	8-12	20	16	34	M6	1.5	5	70	47	3
2056U 3 16 FT	12-16	20	20	34	M6	1.5	5	82	47	3
2056U 3 22 FT	16-22	20	27	34	M6	1.5	5	101	47	3
2056U 3 28 FT	22-28	20	33	34	M6	2	5	119	47	3
2056U 3 34 FT	28-34	20	39	34	M8	2	5.5	139	44.5	5
2056U 3 40 FT	34-40	20	45	34	M8	2	5.5	157	44.5	5
2056U 3 46 FT	40-46	23	51	40	M8	2	5.5	177	56.5	5

Dimensions



Clamp clips, fastening to flat iron



Clamp clip, single, plastic pressure trough

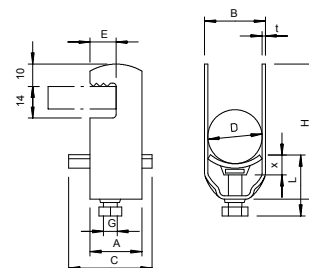
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056F 12 FT	8-12	100	3.700	1169122
2056F 16 FT	12-16	100	3.900	1169165
2056F 22 FT	16-22	100	4.500	1169211
2056F 28 FT	22-28	100	6.000	1169289
2056F 34 FT	28-34	100	8.740	1169343
2056F 40 FT	34-40	100	8.500	1169408
2056F 46 FT	40-46	100	10.600	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.



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
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

Dimensions



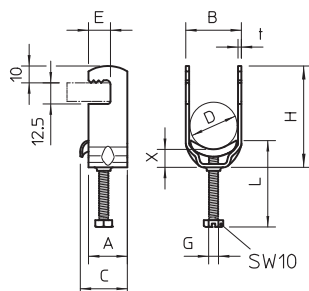
Clamp clip, single, metal pressure trough



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056F M 12 FT	8-12	100	3.700	1156802
2056F M 16 FT	12-16	100	3.900	1156810
2056F M 22 FT	16-22	100	4.550	1156829
2056F M 28 FT	22-28	100	6.000	1156837

Clamp clip for fastening cables and pipes. Suitable for flat, angular and U irons of 4–12 mm thickness. Metal trough with strongly rounded edges for cable protection.

Dimensions



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
2056F M 12 FT	8-12	23	16	34	M6	1.5	5	43	34	3
2056F M 16 FT	12-16	23	20	34	M6	1.5	5	47	34	3
2056F M 22 FT	16-22	23	27	34	M6	1.5	5	54	34	3
2056F M 28 FT	22-28	23	33	34	M6	2	5	60	34	3

Clamp clip, double, plastic pressure trough



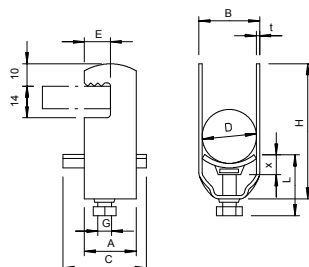
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056F 2 12 FT	8-12	50	4.250	1170120
2056F 2 16 FT	12-16	50	4.550	1170163
2056F 2 22 FT	16-22	50	5.200	1170228
2056F 2 28 FT	22-28	50	7.900	1170287
2056F 2 34 FT	28-34	50	9.900	1170341
2056F 2 40 FT	34-40	50	10.672	1170406
2056F 2 46 FT	40-46	50	12.050	1170465
2056F 2 52 FT	46-52	50	16.600	1170511

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. Dimer- sion G	Dim. t mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056F 2 12 FT	8-12	23	16	34	M6	1.5	4.5	57	25	3
2056F 2 16 FT	12-16	23	20	34	M6	1.5	4.5	65	25	3
2056F 2 22 FT	16-22	23	27	34	M6	1.5	5	78	38	3
2056F 2 28 FT	22-28	23	33	34	M6	2	5	90	38	3
2056F 2 34 FT	28-34	23	39	34	M8	2	6	104	33	5
2056F 2 40 FT	34-40	23	45	34	M8	2	6	116	33	5
2056F 2 46 FT	40-46	25	51	40	M8	2	6	128	33	5
2056F 2 52 FT	46-52	25	57	40	M8	2	6.5	140	33	5



Clamp clip, single, plastic pressure trough

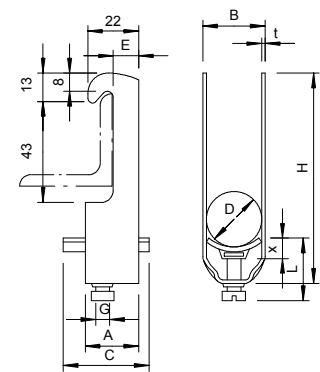
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056W 12 FT	8-12	100	4.450	1180126
2056W 16 FT	12-16	100	4.890	1180169
2056W 22 FT	16-22	100	5.700	1180223
2056W 28 FT	22-28	100	5.950	1180282
2056W 34 FT	28-34	100	9.400	1180347
2056W 40 FT	34-40	100	10.000	1180401
2056W 46 FT	40-46	100	12.800	1180460
2056W 52 FT	46-52	100	13.600	1180525
2056W 58 FT	52-58	50	17.100	1180584
2056W 64 FT	58-64	50	18.600	1180649
2056W 70 FT	64-70	50	18.500	1180681

Suitable for angular steel of 40 mm limb length.
Clip and bolt made of hot-dip galvanised steel.
Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.



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
2056W 12 FT	8-12	23	16	34	M6	1.5	5	74	27	3
2056W 16 FT	12-16	23	20	34	M6	1.5	5	78	27	3
2056W 22 FT	16-22	23	27	34	M6	1.5	5	85	27	3
2056W 28 FT	22-28	23	33	34	M6	2	5	91	27	3
2056W 34 FT	28-34	23	39	34	M8	2	5.5	99	31.5	5
2056W 40 FT	34-40	23	45	34	M8	2	5.5	105	31.5	5
2056W 46 FT	40-46	25	51	40	M8	2	5.5	111	31.5	5
2056W 52 FT	46-52	25	57	40	M8	2	6.5	117	32.5	5
2056W 58 FT	52-58	25	64	40	M8	2.5	6.5	123	32.5	5
2056W 64 FT	58-64	25	70	40	M8	2.5	6.5	130	32.5	5
2056W 70 FT	64-70	25	76	40	M8	2.5	6.5	136	32.5	5

Dimensions



Clamp clip, single, plastic pressure trough

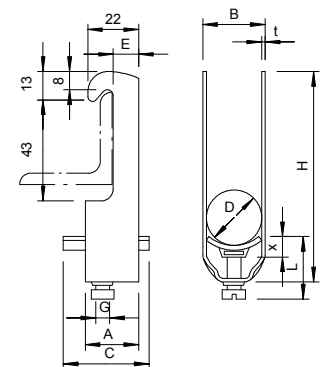
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056W 22 A2	16-22	50	5.700	1185438
2056W 28 A2	22-28	50	7.800	1185446
2056W 34 A2	28-34	50	9.400	1185454
2056W 40 A2	34-40	25	10.000	1185462
2056W 46 A2	40-46	25	12.800	1185470
2056W 52 A2	46-52	25	13.600	1185489
2056W 58 A2	52-58	25	17.100	1185497

Also suitable for angular steels of 40 mm shaft length; stainless steel clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.



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
2056W 22 A2	16-22	23	27	34	M6	1.5	5	85	41	3
2056W 28 A2	22-28	23	33	34	M6	2	5	91	42	3
2056W 34 A2	28-34	23	39	34	M8	2	5.5	99	52	5
2056W 40 A2	34-40	23	45	34	M8	2	5.5	105	54	5
2056W 46 A2	40-46	25	51	40	M8	2	5.5	111	55	5
2056W 52 A2	46-52	25	57	40	M8	2	6.5	117	57	5
2056W 58 A2	52-58	25	64	40	M8	2.5	6.5	123	58	5

Dimensions



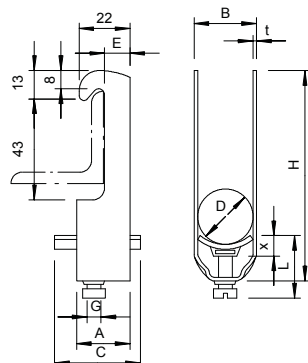
Clamp clip, single, plastic pressure trough



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056W 22 ALU	16-22	50	1.900	1184024
2056W 28 ALU	22-28	50	2.550	1184032
2056W 34 ALU	28-34	50	3.200	1184040
2056W 40 ALU	34-40	50	3.500	1184059
2056W 46 ALU	40-46	50	4.550	1184067
2056W 52 ALU	46-52	50	4.800	1184075
2056W 58 ALU	52-58	50	5.850	1184083
2056W 64 ALU	58-64	50	6.450	1184091

Also suitable for angular steel of 40 mm shaft length; aluminium ALMg3 clip and bolt, polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056W 22 ALU	16-22	23	27	34	M6	1.5	5	85	2
2056W 28 ALU	22-28	23	33	34	M6	2	5	91	2
2056W 34 ALU	28-34	23	39	34	M8	2	5.5	99	2
2056W 40 ALU	34-40	23	45	34	M8	2	5.5	105	2
2056W 46 ALU	40-46	25	51	40	M8	2	5.5	111	2
2056W 52 ALU	46-52	25	57	40	M8	2	6.5	117	2
2056W 58 ALU	52-58	23	64	40	M8	2.5	6.5	123	2
2056W 64 ALU	58-64	23	70	40	M8	2.5	6.5	130	2

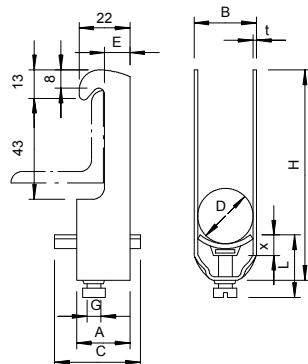
Clamp clip, double, plastic pressure trough



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056W 2 16 FT	12-16	50	5.700	1181165
2056W 2 22 FT	16-22	50	7.050	1181211
2056W 2 28 FT	22-28	50	10.350	1181289
2056W 2 34 FT	28-34	50	11.600	1181343
2056W 2 40 FT	34-40	25	12.700	1181408
2056W 2 46 FT	40-46	25	16.750	1181467
2056W 2 52 FT	46-52	25	18.200	1181521
2056W 2 58 FT	52-58	25	23.000	1181580

Suitable for angular steel of 40 mm limb length.
Clip and bolt made of hot-dip galvanised steel.
Polypropylene pressure trough, halogen-free, colour light grey RAL 7035.

Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. C mm	Dim. D mm	Dim. x mm	Dim. H mm	Dim. L mm	Max. torque Nm
2056W 2 16 FT	12-16	23	20	34	M6	1.5	5	96	3
2056W 2 22 FT	16-22	23	27	34	M6	1.5	5	109	3
2056W 2 28 FT	22-28	23	33	34	M6	2	5	121	3
2056W 2 34 FT	28-34	23	39	34	M8	2	5.5	135	5
2056W 2 40 FT	34-40	23	45	34	M8	2	5.5	147	5
2056W 2 46 FT	40-46	25	51	40	M8	2	5.5	160	5
2056W 2 52 FT	46-52	25	57	40	M8	2	6.5	172	5
2056W 2 58 FT	52-58	25	64	40	M8	2.5	6.5	185	5



Clamp clip, single, metal pressure trough, round profiles/pipes

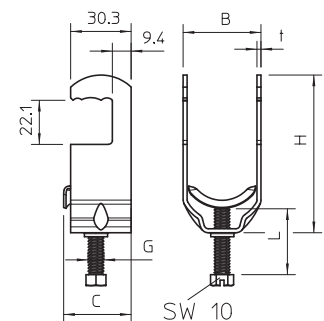
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056RS M 16 FT	12-16	100	4.000	1158305
2056RS M 22 FT	16-22	100	5.200	1158309
2056RS M 28 FT	22-28	100	7.500	1158313
2056RS M 34 FT	28-34	100	9.000	1158317
2056RS M 40 FT	34-40	100	10.000	1158321
2056RS M 46 FT	40-46	100	10.900	1158325
2056RS 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.



Type	Clamping range D mm	Dim. B mm	Dim. C mm	Dimen- sion G	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

Dimensions



Clamp clip, hammer-head base, 3x single-wire connection

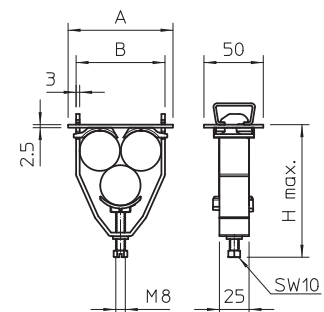
Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 E 31 FT	28-31	25	19.500	1174606
2056 E 37 FT	34-37	25	24.600	1174614
2056 E 44 FT	40-44	25	28.300	1174630

Clip element, bolt and lock plate made of hot-dip galvanised steel, pressure and counter-trough made of polypropylene, halogen-free, light grey RAL 7035. Delivered complete with lock plate and counter-troughs.



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. H mm	Max. torque Nm
2056 E 31 FT	28-31	83	69	107	5
2056 E 37 FT	34-37	95	81	118	5
2056 E 44 FT	40-44	109	95	143	5

Dimensions



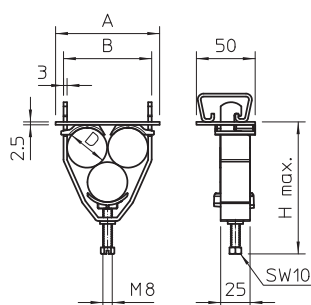
Clamp clip, U base, 3x single-wire connection



Type	Clamping range D mm	Pack Piece	Weight kg/100 pc.	Item no.
2056U-E28 FT	25-28	25	20.000	1174509
2056U-E31 FT	28-31	25	19.500	1174541
2056U-E34 FT	31-34	25	23.000	1174517
2056U-E37 FT	34-37	25	24.600	1174568
2056U-E40 FT	37-40	25	26.000	1174525
2056U-E44 FT	40-44	25	28.300	1174576

Clip element, bolt and lock plate made of hot-dip galvanised steel, pressure and counter-trough made of polypropylene, halogen-free, light grey RAL 7035.
Delivered complete with lock plate and counter-troughs.

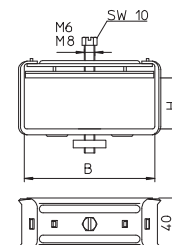
Dimensions



Type	Clamping range D mm	Dim. A mm	Dim. B mm	Dim. H mm	Max. torque Nm
2056U-E28 FT	25-28	77	63	101	5
2056U-E31 FT	28-31	83	69	107	5
2056U-E34 FT	31-34	89	75	112	5
2056U-E37 FT	34-37	95	81	118	5
2056U-E40 FT	37-40	101	87	123	5
2056U-E44 FT	40-44	109	95	143	5

Bundle clips

Bundle clip



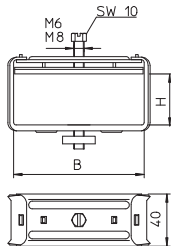
Type	Height x Width mm	Dim. H mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 B 35 FT	35x50	35	50	100	16.000	1194054
2056 B 40 FT	40x100	40	100	50	32.700	1194046
2056 B 80 FT	80x100	80	100	25	38.300	1194089

Clip and bolt made of hot-dip galvanised steel, countersunk head bolt made of rustproof stainless steel, slide nut made of electrogalvanised stainless steel.

Bundle clip

VA 2B

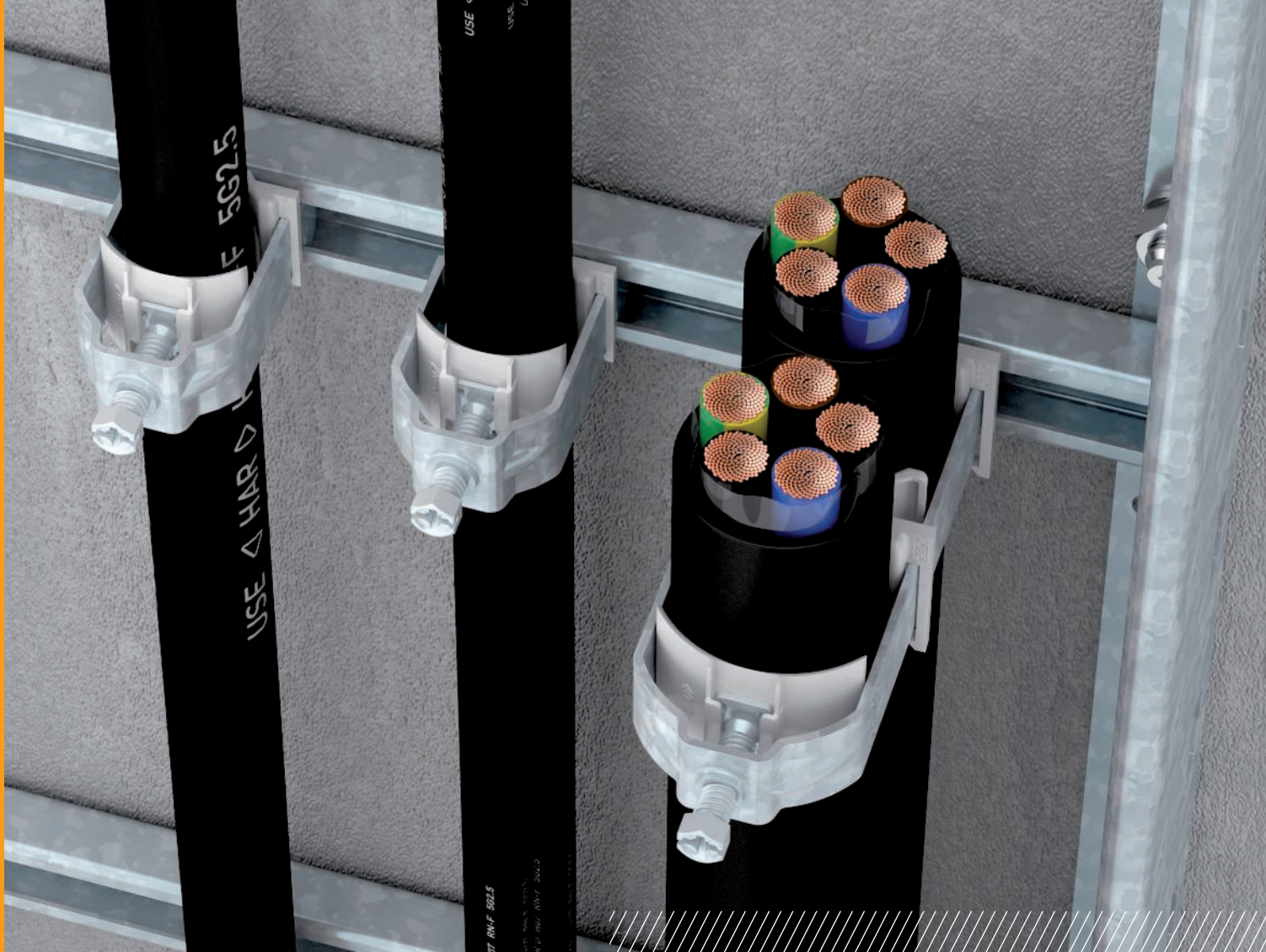
16-17



Clip and bolt made of hot-dip gal-
vanised steel, countersunk head bolt
made of rustproof stainless steel, slide
nut made of electrogalvanised stainless
steel.

Type	Height x Width mm	Dim. H mm	Dim. B mm	Pack Piece	Weight kg/100 pc.	Item no.
2056 B 80 A2	80 x 100	80	100	25	38.300	1194372

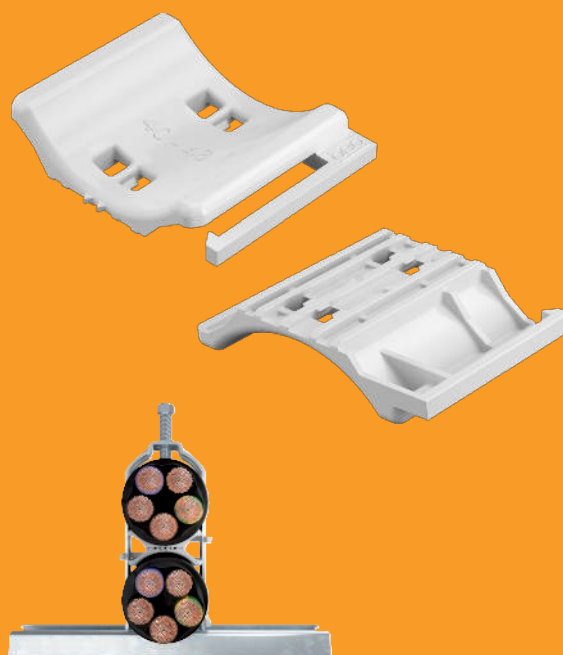




Universal counter-trough

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

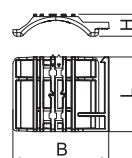


PP



Universal counter-trough, plastic

Type	Clamping range D mm	Dim. L mm	Dim. B mm	Dim. H mm	Colour	Shipping box Piece	Pack Piece	Item no.
2058UW 12 LGR	8-12	37	18.5	5.8	Light grey	1500	100	1198012
2058UW 16 LGR	12-16	37	21.5	5.8	Light grey	1600	100	1198016
2058UW 22 LGR	16-22	37	27.5	6.8	Light grey	1500	100	1198022
2058UW 28 LGR	22-28	37	33.5	8.3	Light grey	1200	100	1198028
2058UW 34 LGR	28-34	37	45.5	9.8	Light grey	1200	100	1198034
2058UW 40 LGR	34-40	37	45.5	10.8	Light grey	600	50	1198040
2058UW 46 LGR	40-46	40	51.5	11.8	Light grey	600	50	1198046
2058UW 52 LGR	46-52	40	57.5	11.8	Light grey	600	50	1198052
2058UW 58 LGR	52-58	40	63.5	11.8	Light grey	600	50	1198058
2058UW 64 LGR	58-64	40	69.5	11.8	Light grey	600	50	1198064
2058UW 70 LGR	64-70	40	75.5	12.3	Light grey	300	25	1198070
2058UW 76 LGR	70-76	40	81.5	12.3	Light grey	300	25	1198076
2058UW 82 LGR	76-82	40	87.5	12.3	Light grey	300	25	1198082
2058UW 90 LGR	82-90	40	96	12.8	Light grey	300	25	1198090
2058UW 100 LGR	90-100	40	106	12.8	Light grey	300	25	1198100

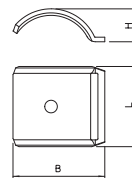


Regardless of the type of rail, the counter-trough can be used by applying it onto one side of the clamp clip. Due to an intelligent contour on the backside, the counter-trough can be combined to a double trough. Retrofitting possible without the need to dismantle.



Counter-trough, metal, universal

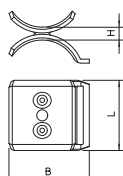
Type	Clamping range D mm	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2058FW M 12 FT	8-12	35	17.5	6.5	100	0.940	1199846
2058FW M 16 FT	12-16	35	21.5	7.7	100	1.100	1199854
2058FW M 22 FT	16-22	35	28	8.8	100	1.200	1199862
2058FW M 28 FT	22-28	35	34	10.4	100	1.400	1199870
2058FW M 34 FT	28-34	35	40	13.5	100	2.160	1199889
2058FW M 40 FT	34-40	35	46	15.1	100	2.490	1199897
2058FW M 46 FT	40-46	35	52	17.2	100	3.270	1199900
2058FW M 52 FT	46-52	35	58	19.2	50	3.460	1199919
2058FW M 58 FT	52-58	35	64	20.3	50	3.620	1199927
2058FW M 64 FT	58-64	35	70	22.4	50	4.280	1199935
2058FW M 70 FT	64-70	35	76	24.5	50	4.590	1199943
2058FW M 8 A2	4-8	35	13	2.25	100	0.249	1197096
2058FW M 12 A2	8-12	35	17.5	6.5	100	0.567	1197134
2058FW M 16 A2	12-16	35	21.5	7.7	100	0.770	1197177
2058FW M 22 A2	16-22	35	28	8.8	100	1.062	1197231
2058FW M 28 A2	22-28	35	34	10.4	100	1.356	1197290
2058FW M 34 A2	28-34	35	40	13.5	100	2.187	1197355
2058FW M 40 A2	34-40	35	46	15.1	100	2.576	1197428
2058FW M 46 A2	40-46	35	52	17.2	100	3.005	1197479
2058FW M 52 A2	46-52	35	58	19.2	50	3.425	1197533
2058FW M 58 A2	52-58	35	64	20.3	50	3.776	1197592
2058FW M 64 A2	58-64	35	70	22.4	50	4.203	1197606



Irrespective of the rail, universally applicable by pushing onto a limb of the BBS clamp clip.



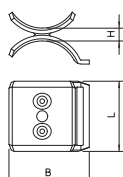
Double trough, metal



Type	Clamping range D mm	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2058 M2 12 FT	8-12	35	17.6	5.4	100	1.360	1199706
2058 M2 16 FT	12-16	35	21.5	5.4	50	1.800	1199714
2058 M2 22 FT	16-22	35	28	5.4	50	2.300	1199722
2058 M2 28 FT	22-28	35	34	5.4	50	3.100	1199730
2058 M2 34 FT	28-34	35	40	6.4	50	3.760	1199749
2058 M2 40 FT	34-40	35	46	6.4	50	5.600	1199757

Clamp clips allows both cables and pipes to be fastened to profile rails. The clamp clips are hooked into the appropriate slot widths of the profile rails and the component to be fastened is pressed onto the profile rail with the pressure trough of the clamp clip and held in place.

Double trough, metal

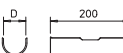


Type	Clamping range D mm	Dim. L mm	Dim. B mm	Dim. H mm	Pack Piece	Weight kg/100 pc.	Item no.
2058 M2 22 A2	16-22	35	28	5.4	50	2.300	1196597
2058 M2 28 A2	22-28	35	34	5.4	50	3.100	1196599
2058 M2 34 A2	28-34	35	40	6.4	50	3.760	1196601

Clamp clips allows both cables and pipes to be fastened to profile rails. The clamp clips are hooked into the appropriate slot widths of the profile rails and the component to be fastened is pressed onto the profile rail with the pressure trough of the clamp clip and held in place.

Long troughs

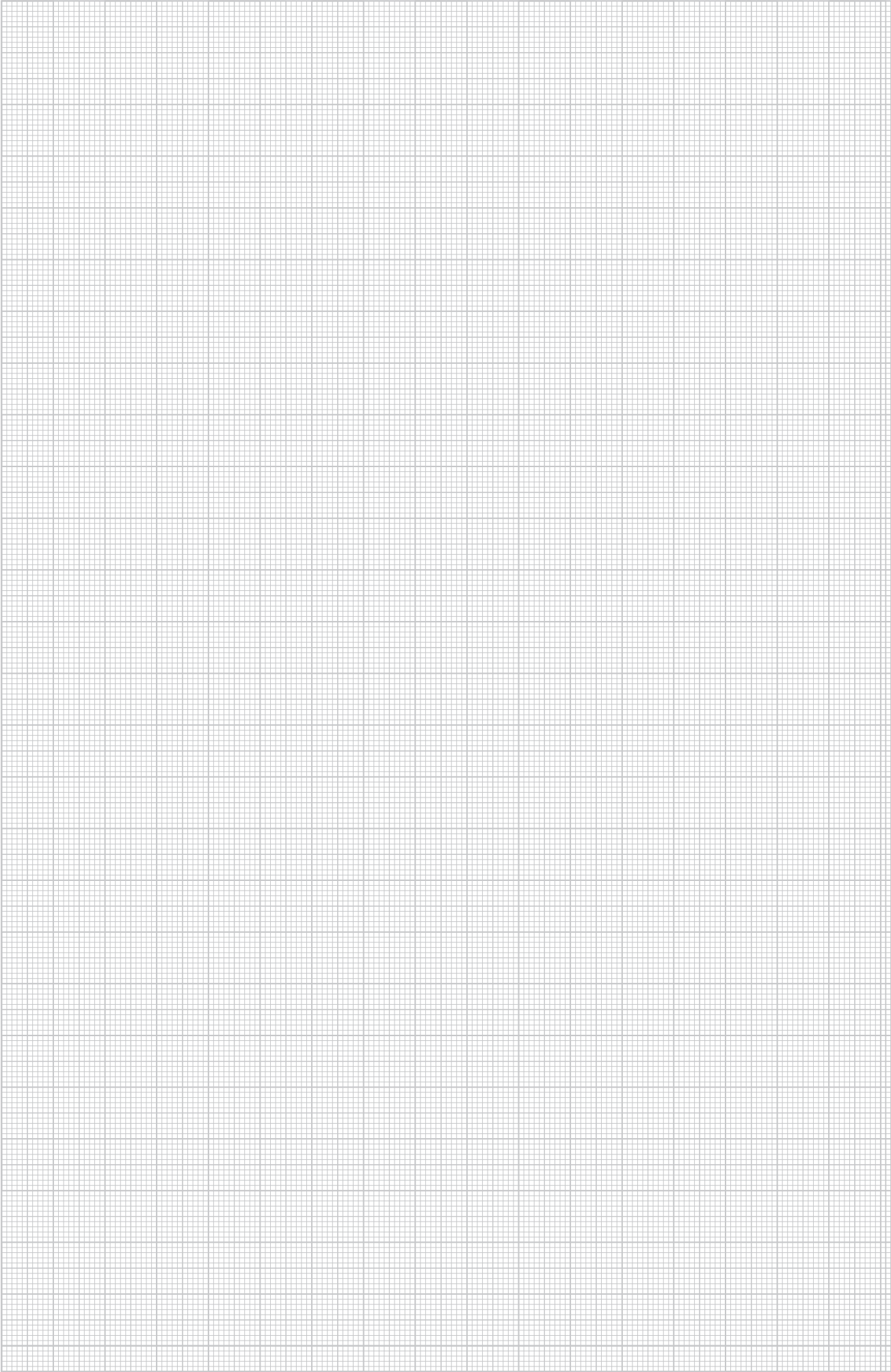
Long trough

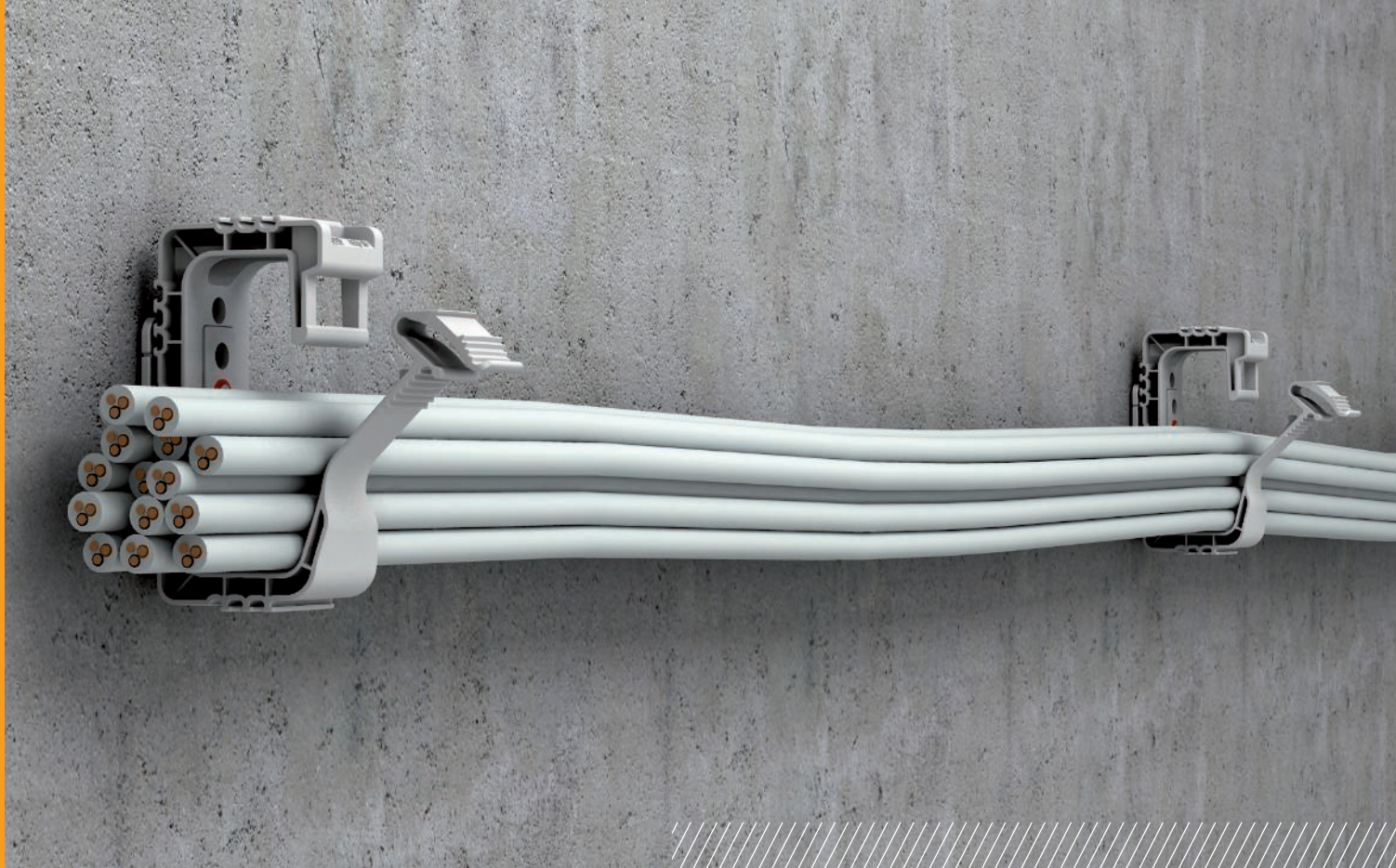


Type	Clamping range D mm	for clip 2056/M	Pack Piece	Weight kg/100 pc.	Item no.
2058 LW 10	6-10	8-12	50	4.000	1195794
2058 LW 14	10-14	12-16	50	5.340	1195808
2058 LW 20	14-20	16-22	50	7.380	1195816
2058 LW 26	20-26	22-28	25	9.000	1195824
2058 LW 32	26-32	28-34	25	11.000	1195832
2058 LW 38	32-38	34-40	25	12.500	1195840
2058 LW 44	38-44	40-46	25	14.300	1195859
2058 LW 50	44-50	46-52	25	16.200	1195867
2058 LW 56	50-56	52-58	25	17.800	1195875
2058 LW 62	56-62	58-64	25	19.700	1195883

In addition to the clamp clip, to increase the support area for cables with integrated maintenance of electrical function, a long trough (L = 200 mm) is mounted.



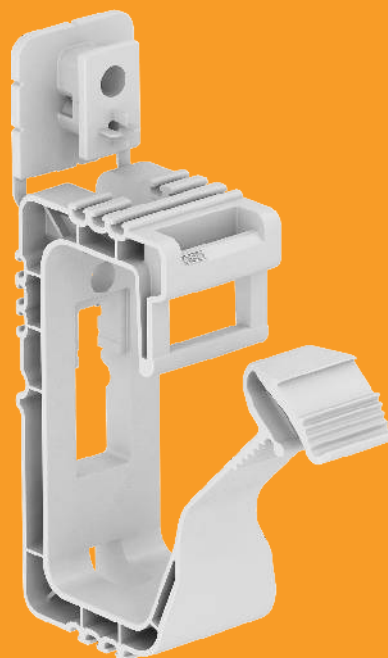




Grip cable tidy

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



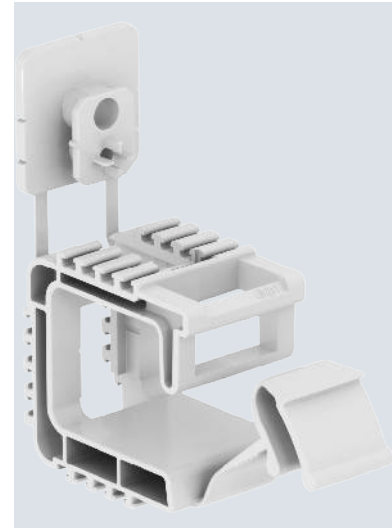
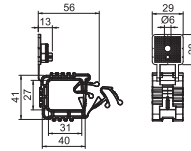
Grip 10

PP



Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 10 SP	10	Light grey	100	1.410	2205384
2031 10	10	Light grey	50	1.410	2205380

Cable tidy with fastening holes of Ø 6 mm for mounting installation cables, suitable for wall and ceiling mounting. The moulded fastening element can be fastened using knock-in anchors or a gas pressure nail gun. The recommended fastening spacing when assigned fully is 50 to 60 cm.

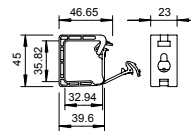


PP

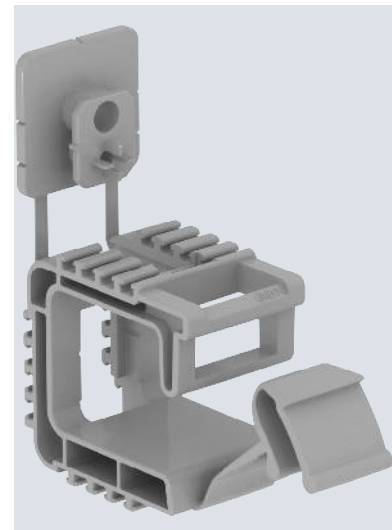


Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 F 10	10	Stone grey	50	1.410	2205388

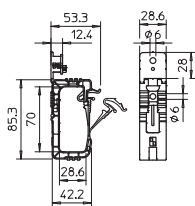
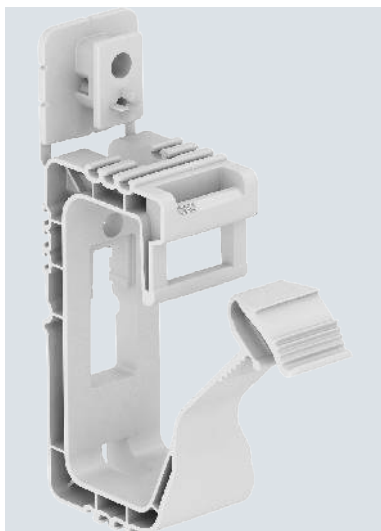
Cable tidy with fastening holes of Ø 6 mm for mounting installation cables, suitable for wall and ceiling mounting. The moulded fastening element can be fastened using knock-in anchors or a gas pressure nail gun. The recommended fastening spacing when assigned fully is 50 to 60 cm.
Flame-resistant version, stone grey, to DIN VDE 0471/DIN IEC 695 Part 2-1, test temperature 960 °C.



Grip 10 flame-resistant



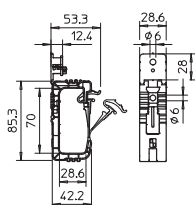
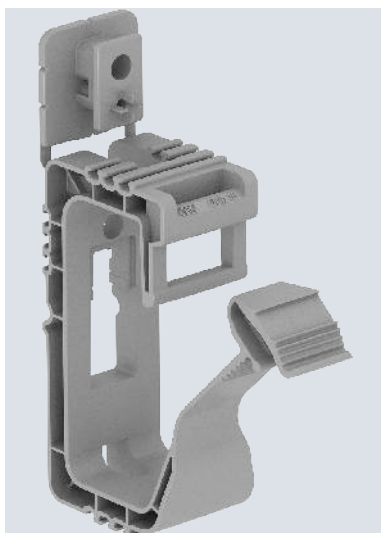
Grip 20



Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 20	20	Light grey	50	1.920	2205404
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.

Grip 20 flame-resistant



Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 F 20	20	Stone grey	50	1.920	2205412

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.
Stone-grey flame-resistant version to DIN VDE 0471/DIN IEC 695 Part 2-1, test temperature 960 °C.

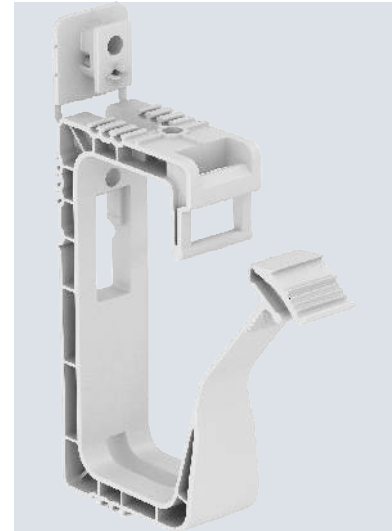
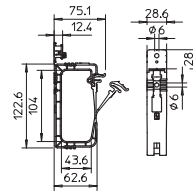
Grip 40

PP



Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 40	40	Light grey	25	3.610	2205416
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.

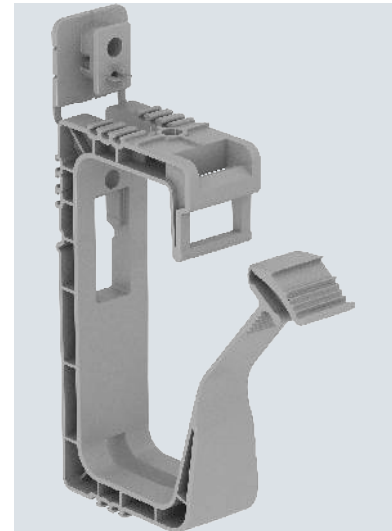
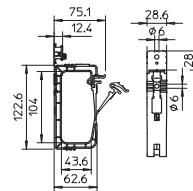


PP



Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2031 F 40	40	Stone grey	25	3.610	2205423

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.
Stone-grey flame-resistant version to DIN VDE 0471/DIN IEC 695 Part 2-1, test temperature 960 °C.



Grip 40 flame-resistant





Grip cable tidy, metal

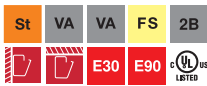
E30

E90



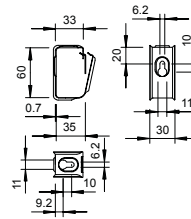
The movable closing strap means that the Grip cable tidy can be opened and closed again and again with just the application of light pressure. This means that you can remove a cable easily and at any time from fixed wall and ceiling installations, or also install a new cable at a later date.

- Ingenious design means both wall and ceiling mounting are possible
- Easy cable insertion
- Extremely sturdy click-in connector means reinstalling 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



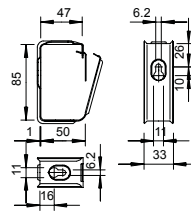
Type	No. of conductors NYM 3 x 1.5	Shipping box Piece	Pack Piece	Weight kg/100 pc.	Item no.
2031 M 15 FS	15	50	50	3.700	2207028
2031 M 15 A2	15	50	50	3.000	2207080
2031 M 15 A4	15	50	50	3.000	2207132

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 30 FS	30	25	25	6.200	2207036
2031 M 30 A2	30	25	25	6.500	2207088
2031 M 30 A4	30	25	25	6.500	2207140

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

St

VA

VA

FS

2B



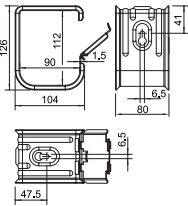
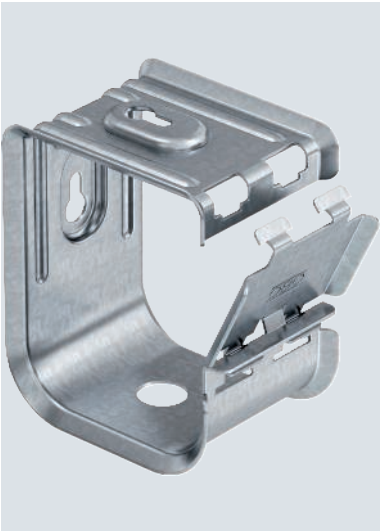


E30

E90

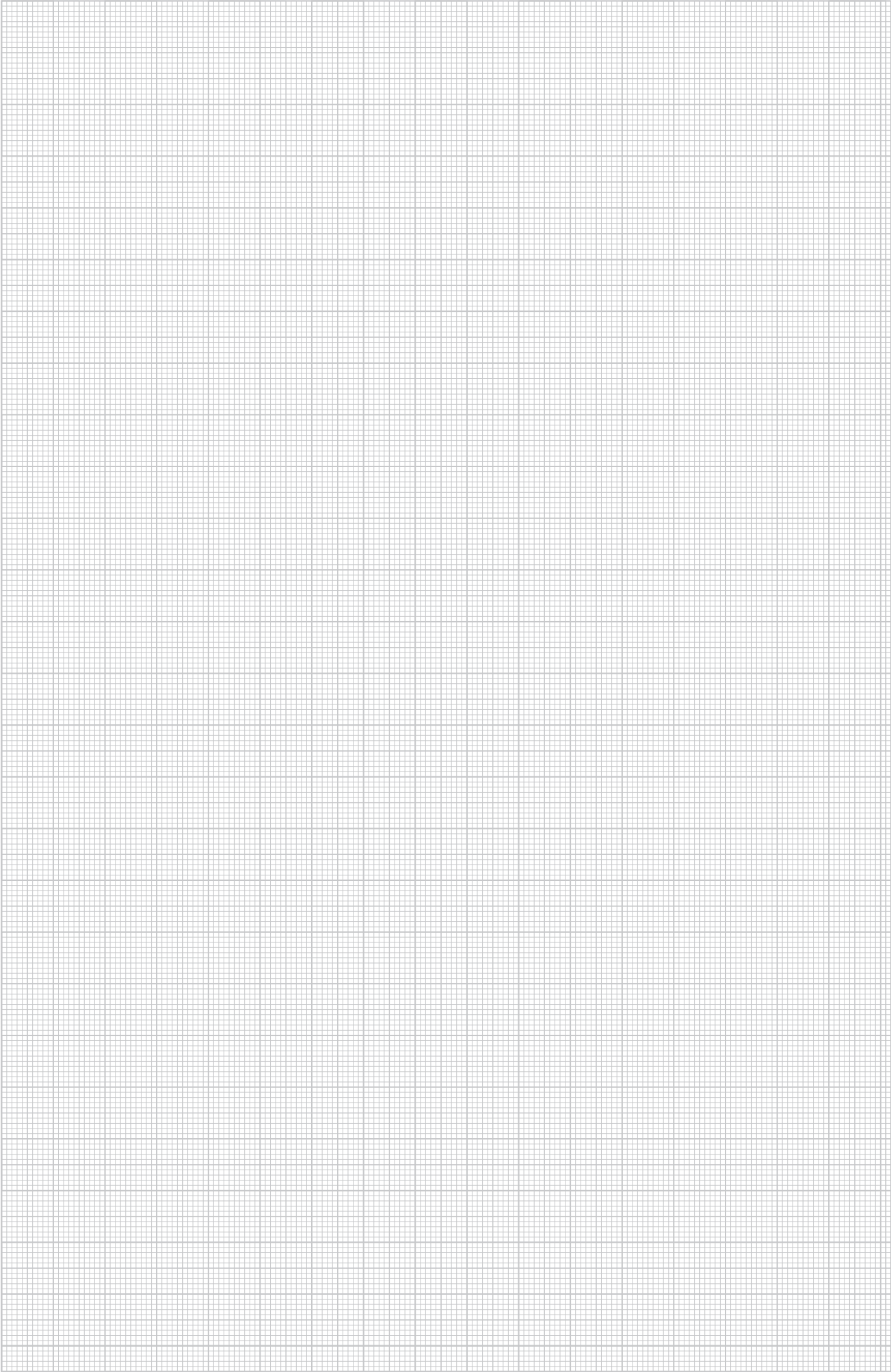


UL



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
2031 M 70 A4	70	10	10	37.000	2207164

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.





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

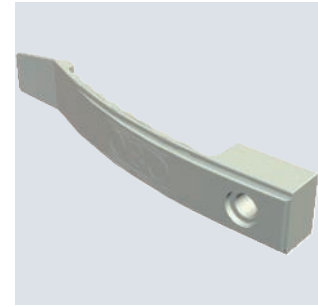
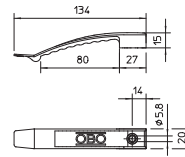
- Striking surface on top
- Specially adapted corrugation
- Spacer for larger cable diameters
- Connectable
- With knock-in anchor

PA



Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2032	8	Light grey	50	1.371	2205017
2032 SP	8	Light grey	100	1.371	2204975

Standard version for general use, e.g. on intermediate ceilings and partition walls.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.

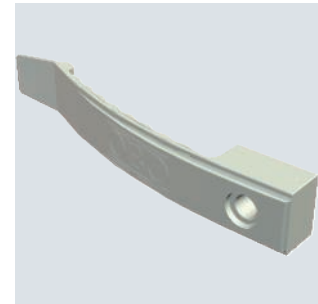
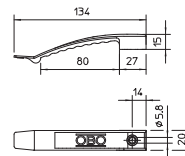


PBPT



Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2032 F	8	Stone grey	50	1.412	2204908

Flame-resistant version, specially for use in suspended ceilings.
Thermoplastic polyester, stone grey RAL 7030, flame-resistant to VDE 0471/DIN IEC 695 Part 2-1, test temperature 960 °C, respectively V-O to UL 94, halogen-free.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.

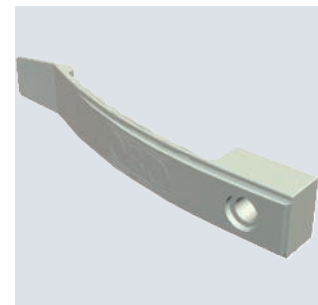
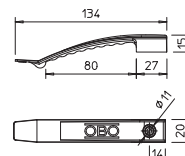


PA



Type	No. of conductors NYM 3 x 1.5	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.

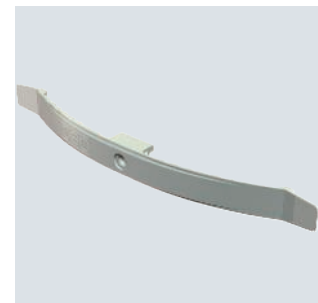
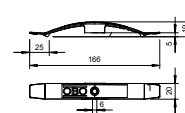


PA



Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2034	10	Light grey	50	1.169	2205041
2034 SP	10	Light grey	100	1.169	2204991

Standard version for general use, e.g. on intermediate ceilings and partition walls.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.



Pressure clip for 8 cables

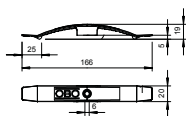
Pressure clip for 8 cables, flame resistant

Pressure clip for 8 cables, connectable

Pressure clip for 10 cables



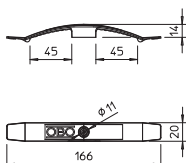
Pressure clip for 10 cables, flame resistant



No. of conductors			Pack	Weight	Item no.
Type	NYM 3 x 1.5	Colour	Piece	kg/100 pc.	
2034 F	10	Stone grey	50	0.808	2204924

Flame-resistant version, specially for use in suspended ceilings.
Thermoplastic polyester, stone grey RAL 7030, flame-resistant to VDE 0471/DIN IEC 695 Part 2-1, test temperature 960 °C, respectively V-O to UL 94, halogen-free.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.

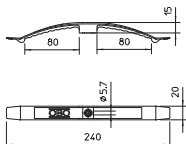
Pressure clip for 10 cables, connectable



No. of conductors			Pack	Weight	Item no.
Type	NYM 3 x 1.5	Colour	Piece	kg/100 pc.	
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.

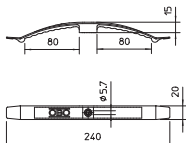
Pressure clip for 16 cables



No. of conductors			Pack	Weight	Item no.
Type	NYM 3 x 1.5	Colour	Piece	kg/100 pc.	
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, flame resistant



No. of conductors			Pack	Weight	Item no.
Type	NYM 3 x 1.5	Colour	Piece	kg/100 pc.	
2033 F	16	Stone grey	25	2.588	2204916

Flame-resistant version, specially for use in suspended ceilings.
Thermoplastic polyester, stone grey RAL 7030, flame-resistant to VDE 0471/DIN IEC 695 Part 2-1, test temperature 960 °C, respectively V-O to UL 94, halogen-free.
Clamping height 9 mm – with spacer 13 mm.
Fastening hole: 6 mm Ø.

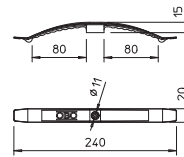
PA



Pressure clip for 16 cables, connectable

Type	No. of conductors NYM 3 x 1.5	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.



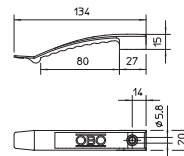
PA



Pressure clip with knock-in anchor, for 8 cables

Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2032 SD	8	Light grey	50	1.791	2204800
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.



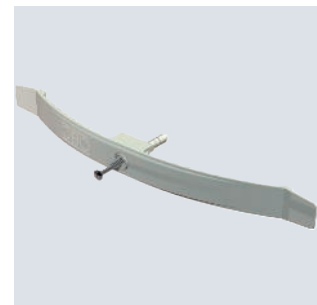
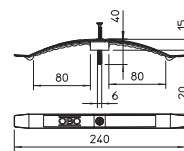
PA



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.



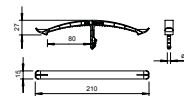
PA



Pressure clip with push-fit anchor

Type	No. of conductors NYM 3 x 1.5	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2033 STD	16	Light grey	25	1.037	2204541

With moulded push fit plug, 6 mm Ø.





Metal pressure clip



E30

E90

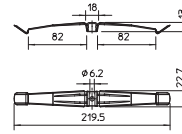
The metal pressure clip is halogen- and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for maintenance of electrical function to DIN 4102 Part 12. In pressure clips with larger cross-sections, the spacer 2033 D 15 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



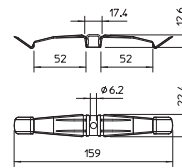
Type	No. of conductors NYM 3 x 1.5	Pack Piece	Weight kg/100 pc.	Item no.
2033 M A2	16	25	2.310	2204000

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.



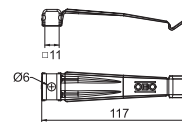
Type	No. of conductors NYM 3 x 1.5	Pack Piece	Weight kg/100 pc.	Item no.
2034 M A2	10	50	1.860	2204010

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.



Type	No. of conductors NYM 3 x 1.5	Pack Piece	Weight kg/100 pc.	Item no.
2035 M A2	8	20	1.030	2204020

The metal pressure clip is halogen and fire load-free, and maintains a good mechanical stability even in fires. The pressure clip is also approved as a cable-specific variant for the maintenance of electrical functionality to DIN 4102 Part 12. The spacer 2033 D 15 x 3 G (must be ordered separately) increases the clamping height of pressure clips from 10 to 13 mm. The pressure clips are suitable for fireproof mounting above suspended fire protection ceilings in accordance with DIN 4102.

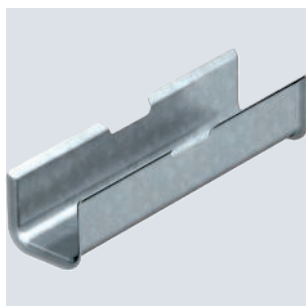


Pressure clip for 8 cables



Long trough for Grip cable tidy metal 15

St FS



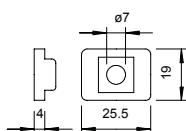
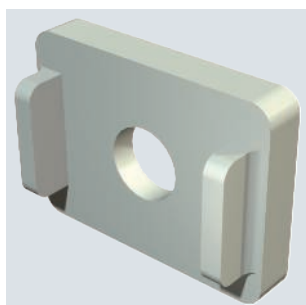
Type	Pack Piece	Weight kg/100 pc.	Item no.
2031 LW15	25	8.200	2207184

Long trough for cable tidy type 2031/M15, for the maintenance of electrical function as cable-specific mounting variant.

Spacers

Spacer

PS

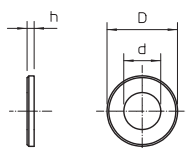
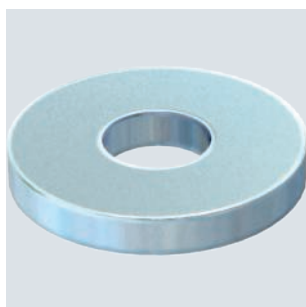


Type	Colour	Pack Piece	Weight kg/100 pc.	Item no.
2033 D 25x19	Light grey	100	0.173	2205092

To increase the clamping height of pressure clips from 10 to 13 mm for thicker cables, impact-resistant polystyrene.

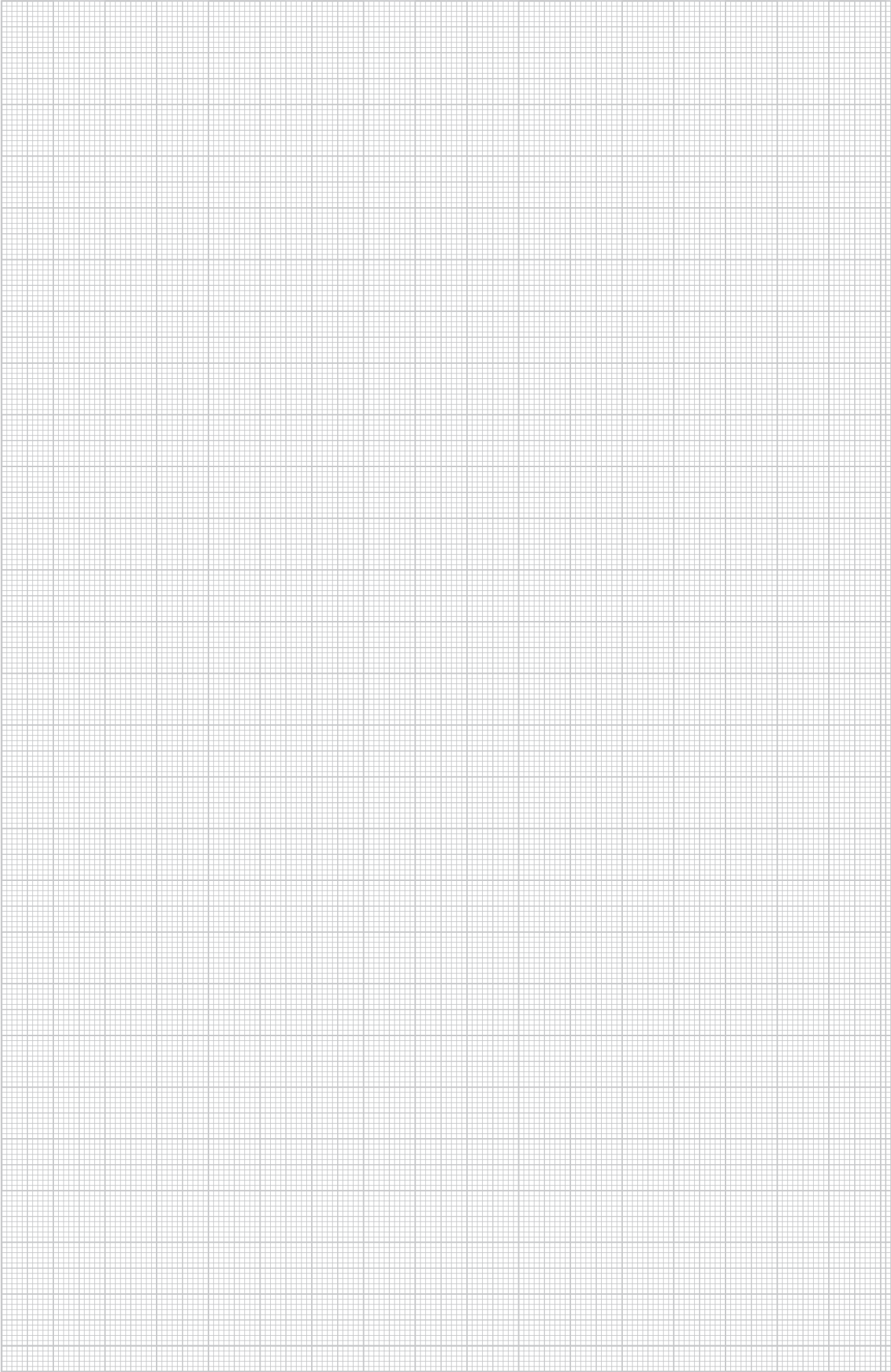
Spacer

St G



Type	Dim. D mm	Dim. d mm	Dim. h mm	Pack Piece	Weight kg/100 pc.	Item no.
2033 D 15x3 G	15	6.4	3	50	0.340	2205097

To increase the clamping height of pressure clips from 10 to 13 mm for large cable cross-sections.





Directories

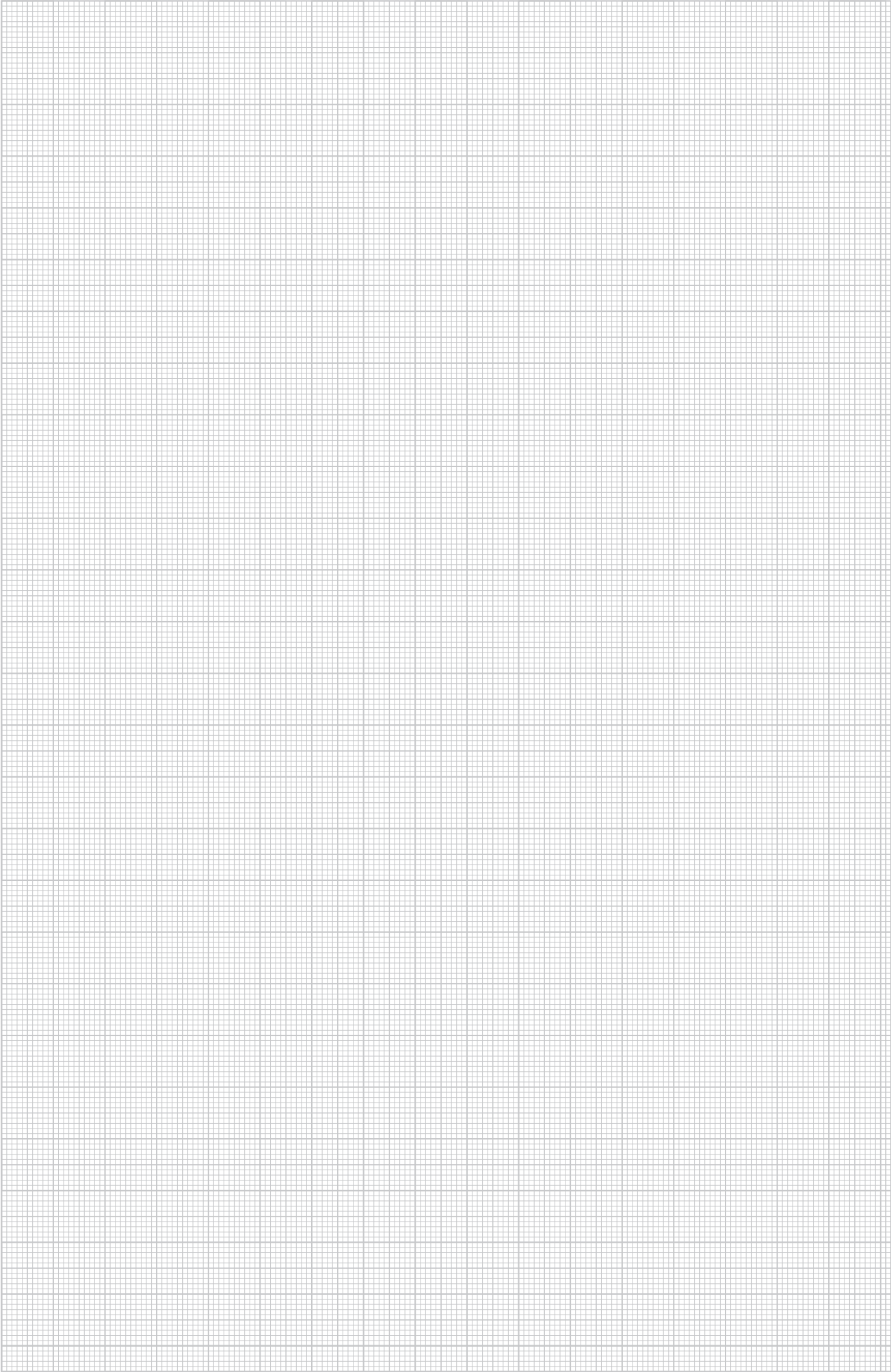
Directories

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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		ISTITUTO 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 Elinspektionscentralen 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
	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

	Protection device to DIN EN 61643-11 or IEC 61643-11
	Protection device to DIN EN 61643-11 or IEC 61643-11

Lightning protection zone

	Transition from LPZ 0 to LPZ 1
	Transition from LPZ 0 to LPZ 2
	Transition from LPZ 0 to LPZ 3
	Transition from LPZ 1 to LPZ 2
	Transition from LPZ 1 to LPZ 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, slant height 35 mm
	Mesh cable tray, slant height 55 mm

Materials

	Flat steel
	Angular steel
	U steel
	Round material

Pictogram explanation

Nominal cross-section

	Nominal cross-section 1.5 mm²
	Nominal cross-section 1.5–2.5 mm²
	Nominal cross-section 2.5 mm²
	Nominal cross-section 2.5–4 mm²
	Nominal cross-section 4 mm²
	Nominal cross-section 4–6 mm²
	Nominal cross-section 6 mm²
	Nominal cross-section 10 mm²
	Nominal cross-section 16 mm²

Nominal voltage

	Nominal voltage 400 V
	Nominal voltage 500 V
	Nominal voltage 660 V

Polarity

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

Slot widths

	Slot width 7.5 mm
	Slot width 11 mm
	Slot width 11–12 mm
	Slot width 12 mm
	Slot width 15 mm
	Slot width 16 mm
	Slot width 16.5 mm
	Slot width 16–17 mm
	Slot width 17 mm
	Slot width 18 mm
	Slot width 22 mm
	Slot width 35 mm

Screw heads

	Philips screw
	Torx screw
	Phillips screw
	Pozidrive

Firing devices

	Bolt-firing tool
	Nail device

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
	Stainless steel, rustproof
	Copper
	Brass
	Steel
	Malleable iron
	Die-cast zinc

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	Fibre-glass-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

GTIN	Item no.	Page	GTIN	Item no.	Page	GTIN	Item no.	Page	GTIN	Item no.	Page	GTIN	Item no.	Page
	/100 pc.			/100 pc.			/100 pc.			/100 pc.			/100 pc.	
5000792	1003038	100	5567134	1014536	103	5029892	1044109	105	6489596	1148168	43	5495253	1156810	154
5000853	1003046	100	5567493	1014544	103	5029953	1044125	105	6489602	1148170	43	5495314	1156829	154
5000914	1003054	100	5567554	1014552	103	5030010	1044141	105	6489695	1148206	43	5495376	1156837	154
5000976	1003062	100				5030072	1044176	105	6489701	1148210	43			
5001034	1003070	100	5015130	1015095	109	5030133	1044192	105	6489718	1148214	43	5498254	1158007	151
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5001157	1003097	100	5015253	1015133	109	5030256	1044230	105	6489732	1148222	43	5498377	1158023	151
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5001331	1003127	100	5015437	1015303	109	6488636	1147008	57	6489763	1148256	44	5498551	1158066	151
5001393	1003135	100	5015499	1015362	109	6488643	1147012	57	6489770	1148260	44	5498612	1158074	151
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5001515	1003194	100	5015611	1015486	109	6488667	1147020	57	6489794	1148268	44	5498735	1158090	151
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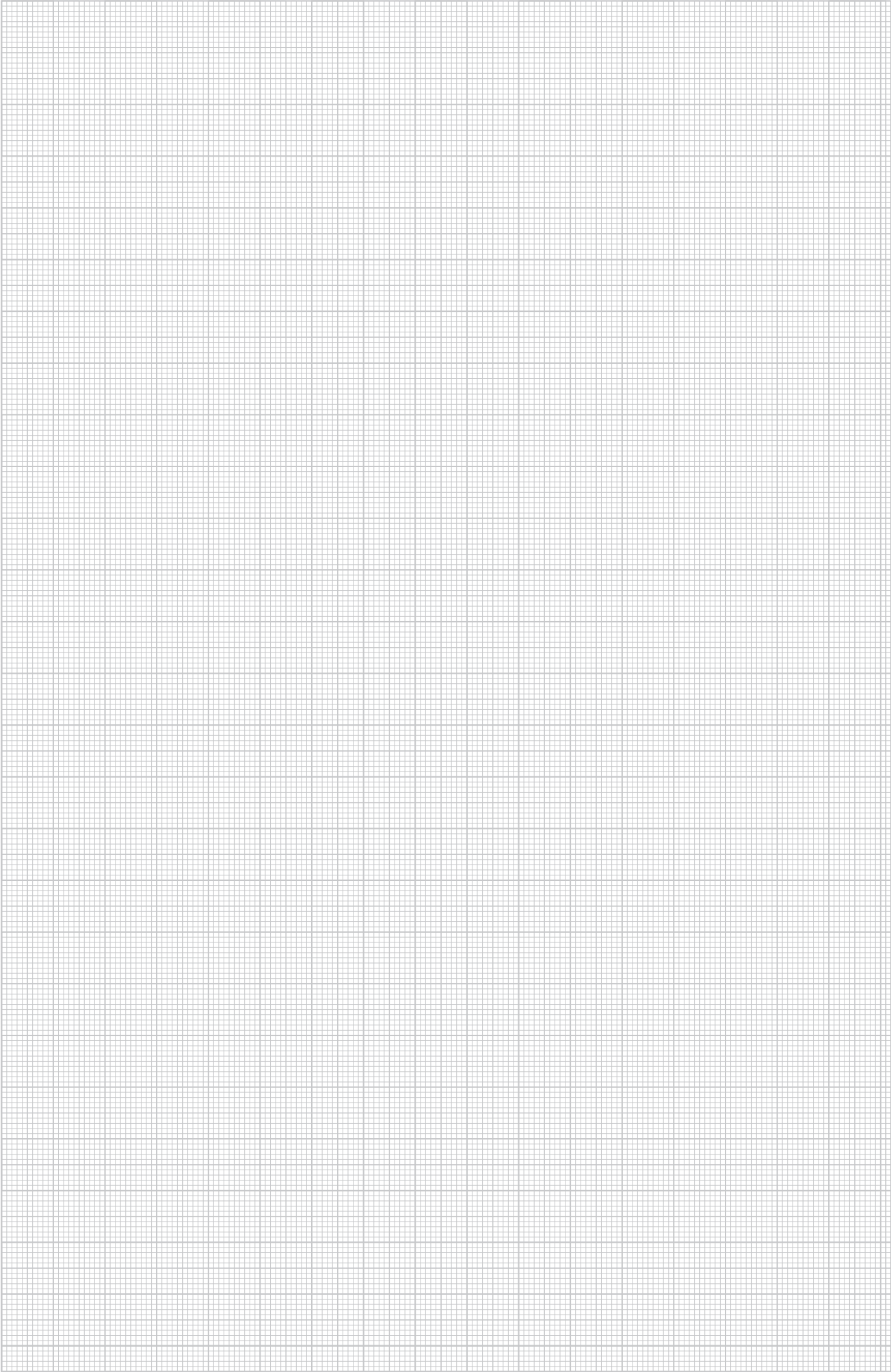
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5139997	1475177	65	5585671	2149351	76	5809463	2207140	169	5218593	2227916	136	6417186	2331868	62
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5140177	1475673	65	5586395	2149369	76				5218777	2228025	136	6417223	2331878	62
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			5616337	2149563	75	5599777	2214873	130	5219019	2228122	137	6417254	2331886	62
5151210	1488201	66	5616399	2149567	75	5599838	2214881	130	5219132	2228211	138	6417278	2331890	62
			5616450	2149571	75				5219194	2228238	138	6417285	2331892	



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5828198	2347229	14	5849513	3156042	40	6621491	3191026	36	5894810	3397145	53			
5828259	2347261	14	5849582	3156044	40	6621507	3191028	36				5304333	3450058	58
5448099	2347407	14	5849643	3156120	54	6621514	3191032	36	5297970	3400042	53	5304395	3450066	58
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6788538	2347582	12	5849728	3156126	54	6621538	3191036	36	5298090	3400069	53	5304517	3450082	58
6788545	2347584	12	5255857	3156494	41	6621545	3191050	36	5298151	3400085	53	5304579	3450090	58
6788552	2347586	12	5255970	3156516	41	6621552	3191052	36	5298212	3400107	53	5304630	3450104	58
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6652488	3497640	30	6571451	3498345	23	5901785	5305016	69	6204434	6418287	42
6652532	3497648	30	6411894	3498350	23				6204496	6418295	42
6652563	3497656	30	6411900	3498352	23		/pc.		6204557	6418317	42
6652662	3497676	31	6571468	3498354	23	6326112	6017371	66	6204618	6418368	42
6652723	3497684	31	6571475	3498356	23				6204670	6418376	42
6652778	3497700	25	6571482	3498358	23		/100 pc.				
6652785	3497702	25	6411917	3498360	23	6015061	6178548	50	6397228	7205900	33
6652792	3497704	25	6429493	3498370	24				6397235	7205901	33
6652808	3497706	25	6429509	3498372	24	6199815	6406122	38	6397242	7205902	33
6652839	3497720	31	6429516	3498374	24	5059585	6406125	38	6397266	7205903	33
6652846	3497722	31	6429523	3498376	24	5656311	6406130	37	6397297	7205904	33
6652853	3497724	31		/pc.		5059561	6406133	37	6397303	7205905	33
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6606986	3497803	28	6429554	3498384	30	6199877	6406157	38	6397358	7205908	33
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6606788	3497826	32	6411931	3498392	22	6199990	6406203	38			
6606818	3497830	32	6429578	3498393	22	5925248	6406205	38			
6606825	3497832	32	6411948	3498396	21	5925255	6406207	38			
6606832	3497834	32	6411955	3498398	22	6200054	6406254	39			
6606849	3497840	33	6429585	3498399	21	6200115	6406270	39			
6606856	3497842	33	6571413	3498410	24	6200238	6406521	39			
6606863	3497844	33	6571420	3498412	24	6200290	6406556	39			
6606870	3497850	33	6571437	3498414	24	6291311	6406564	39			
6606887	3497852	33	5940128	3498516	25	6817573	6406580	39			
6606894	3497854	33	5940142	3498556	25	6200351	6406602	39			
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6563968	3498140	37	5901075	5301174	68	6201792	6407528	39			
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6559664	3498261	17	5901358	5302174	69	5910961	6408920	54			
6842568	3498262	17	5901365	5302178	69	5910985	6408930	54			
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6411832	3498326	23	5464273	5303202	66						
6411849	3498328	24	5414971	5303206	66	6348794	6418244	41			
6411856	3498334	23	5415039	5303214	66	6822133	6418248	42			
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6411870	3498340	23	5415152	5303230	66	6518470	6418252	41			
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