

The background of the advertisement is a photograph of a row of white front-loading washing machines in a laundry facility. The top half of the image shows a close-up of the control panel of one machine, featuring a large white rotary dial, a detergent drawer on the left, and a black digital display on the right. The bottom half of the image shows a perspective view of several machines lined up, with their circular glass doors and metal mesh frames visible. The lighting is bright and even.

HellermannTyton

Solutions for Appliance & HVAC applications

Smart cable management for efficient manufacturing and reliable performance

MADE FOR REAL[®]



MADE FOR REAL

Built for appliance solutions

Reliable performance worldwide

Consistent results across every stage of appliance manufacturing

In the appliance industry, every process step matters. From development to production, manufacturers rely on solutions that integrate easily, perform reliably and arrive exactly when needed.

HellermannTyton supports appliance manufacturers with robust, process-ready cable management solutions. Backed by clear documentation, global availability and decades of industry experience, we help you maintain smooth production, consistent quality and on-time delivery.

Because in appliance manufacturing, confidence in your supplier drives efficiency, continuity and long term success.

Why appliance manufacturers choose HellermannTyton:

- Proven in **high-volume production**
- Designed for **tight installation spaces**
- **Minimises** assembly **effort and errors**
- Standardised where possible, **customised where needed**.



■ Globally present, locally committed

Wherever your projects take place, we are your partner on the ground.

With more than **40 national organisations**, **18 production sites** and **13 development centres**, we're close to your operations. Our local experts provide **on-site support** – from helping you select the right parts from our extensive range to co-developing **tailored solutions for complex requirements**.



■ Proximity that drives performance

Whether you need standard components for high-volume production or customised solutions for unique challenges, we combine global expertise with local presence to ensure:

- fast response times,
- consistent quality,
- compliance with international standards.

This close collaboration helps you meet the demands of modern appliance manufacturing – from shrinking installation spaces to sustainability targets.

MADE FOR REAL[🌐]

Proven in the field Versatile across applications

Expert picks by Sönke

With years of hands-on experience in the appliance industry, our EMEA Market Manager Sönke Tesch knows which solutions really perform under real-life conditions. Here are his top product recommendations.

Cable clip for edges – EC1-3C15 (Article No. 151-03154)

**Where it is used:**

Fast, secure cable routing along appliance housing – without drilling or adhesive.

Key benefit:

- Tool-less push-on installation by hand
- Secure fixation with integrated spring steel clamp
- Reliable cable retention for bundles up to 11 mm
- Suitable for sheet thicknesses from 1.0 to 3.0 mm

► More information on page 62.

«This EdgeClip is a great solution whenever drilling or adhesive fixing isn't an option – it installs quickly and holds cables securely.»

EMEA Market Manager Sönke Tesch



Contact me to
shape the right
solution for your
operational success.



■ Cable clip for holes – HC10.5WPM6.3 (Article No. 151-03957)

Where it is used:

Used to secure cable bundles inside appliance housings and metal panels. Ideal for round holes in sheet metal where space is limited and quick installation is required.

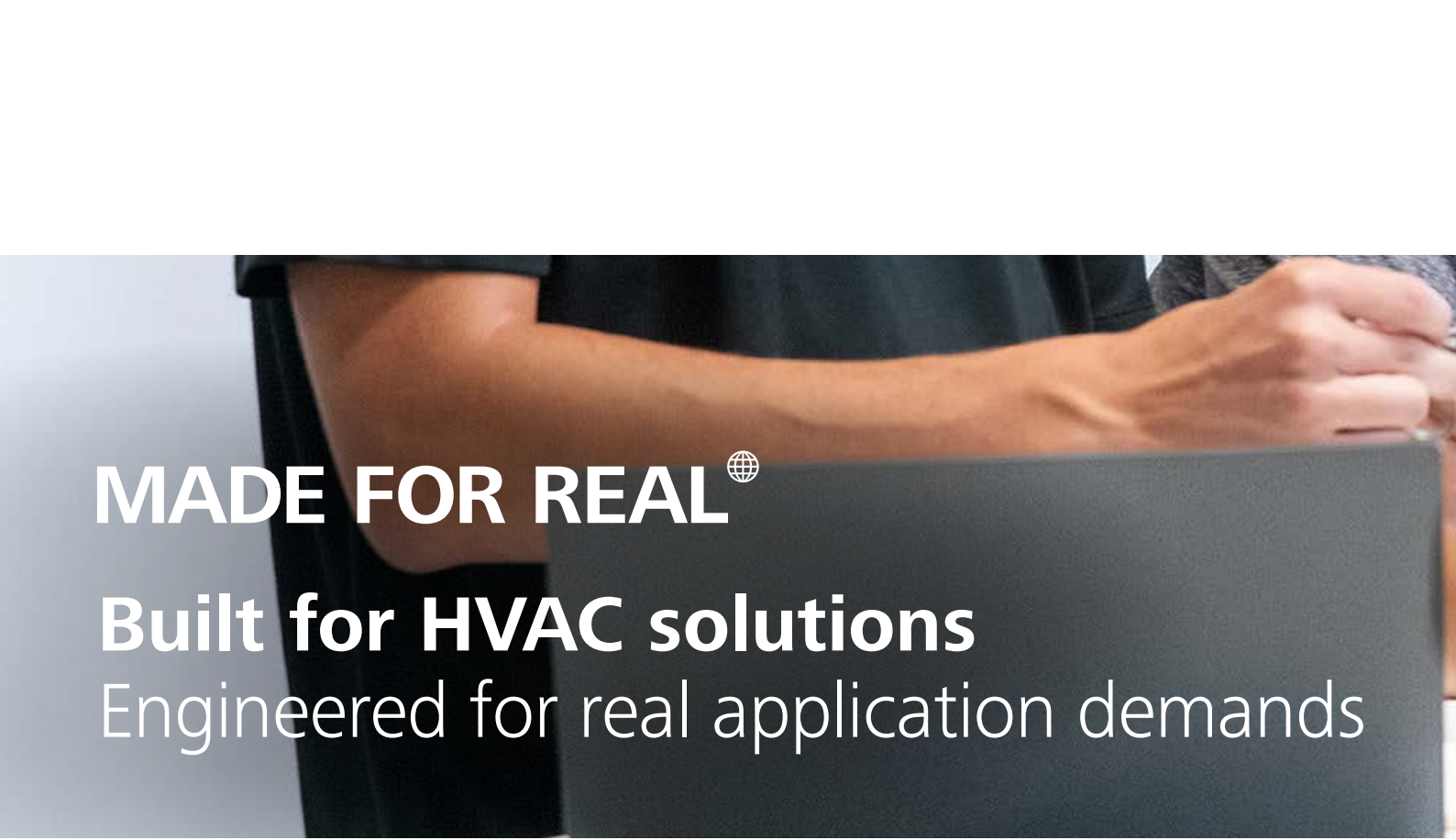
Key benefit:

- Tool-less push-in installation
- Secure fixation with audible click
- Suitable for single and multiple cables (up to 12 mm)
- Lightweight PP design with reduced CO₂ footprint

«I recommend this clip
because it solves real
installation problems in
tight housings and can be
mounted quickly without
access from both sides.»



► More information on page 24.



MADE FOR REAL[🌐]

Built for HVAC solutions

Engineered for real application demands

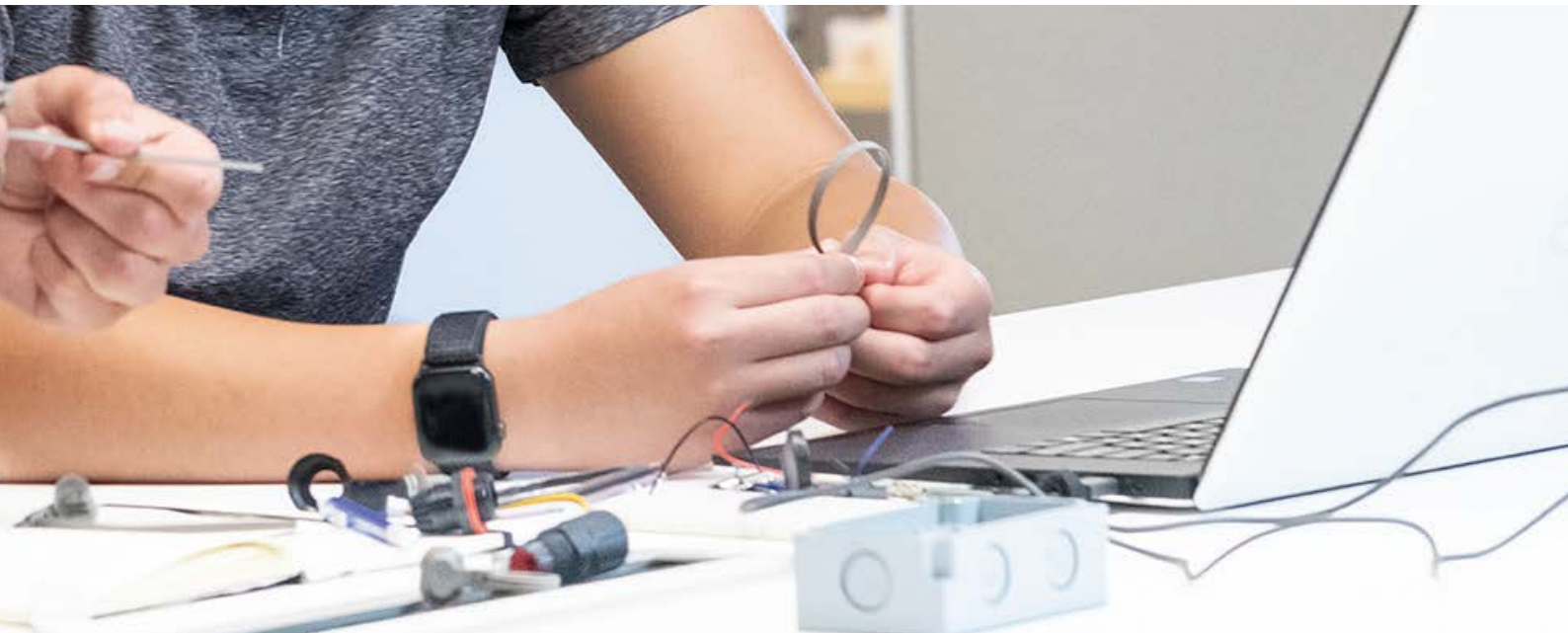
■ Rethinking what's possible in HVAC cable management

We don't just make cable management parts for HVAC – **we rethink what's possible**. Many of our most inventive products began as custom solutions that turned technical potential into practical reality. Today, they're proven standards used worldwide.

We bring ideas to life by working closely with customers and partners. We address challenges such as vibration in compressor units, temperature exposure in air handling systems, confined installation spaces, and the need for fast, reliable assembly. By focusing on every detail - from material selection to functional design – we deliver dependable performance in critical environments.

From first sketch to final product, HellermannTyton is your partner in application-specific components that set global benchmarks. Whether it's a fixing tie, a simple clip or a fully automated tool, **we deliver the results that others say can't be done**.





MADE FOR YOU

With HellermannTyton, you're not just buying parts, you're securing the **performance, reliability, and long-term confidence** our brand stands for. Real solutions start with understanding what truly matters. Whether you choose standard products or customised solutions, our MADE FOR REAL promise is simple:

Focus on making the difference that matters most to you.



Real solutions start
with understanding
what truly matters.

MADE FOR REAL 

MADE FOR REAL[🌐]

Proven in the field Flexibility in use

Expert picks by Sönke

Based on market insight and real application experience, Sönke presents his product recommendations that have proven their value in everyday use.

Cable clip for edges – EC1-3TL7OTP-PA66HIRHS-BK

(Article No. 151-02588)



► More information on page 62.

Where it is used:

Wherever cables need temporary fixation on edges without drilling, screwing, or adhesive.

Key benefit:

- Tool-less push-on installation
- Quick twist locking with easy adjustability
- Secure fastening up to 20 N tensile strength
- Safe, adhesive-free edge mounting (1–3 mm)

«You get a firm hold, without losing the flexibility
needed to adapt during installation»

EMEA Market Manager Sönke Tesch



Contact me to
shape the right
solution for your
operational success.



Fixing tie for holes – T50SCTCFT6-PA66HS/PA66HIRHS-BK

(Article No. 156-00253)

Where it is used:

In industrial environments where multiple cables are bundled at a single point, routed in different directions, and require rattle-free fixation under vibration.

Key benefit:

- Tool-free installation
- Pre-assembled 2-piece element for oval holes
- Parallel routing of cables, hoses, or harnesses
- Removable



«What stands out is the
balance between
ease of installation and
flexibility in use.»

► More information on page 64.



Cable Ties and Fixings

Cable ties, releasable

Cable ties inside serrated with one-hand release mechanism

REZ-Series

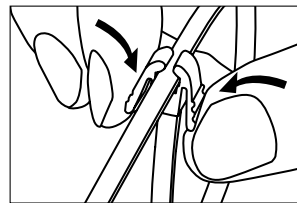
Thanks to its innovative head design, the REZ-Series cable ties can be released using only two fingers. By applying pressure to the integrated wings, the tie can be quickly and securely disengaged without damage. The REZ cable tie provides a reliable fastening solution suitable for a wide range of applications, especially in temporary setups and areas with limited accessibility.

Features and benefits

- REZ-Series can be released
- Unique head design for simple and rapid use
- Quick-release mechanism for one-hand operation
- Cable tie can be opened even when under tension
- Can still be released when working with gloves

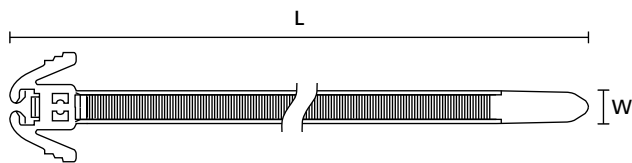


Reopenable cable tie of the REZ-series.



The closure function of the reopenable cable tie from the REZ-series.

Material specifications: See Article-No. on our website.



REZ-Series

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Pack Cont.	Article-No.
REZ200	4.7	200.0	50.0	135	PA66	Green (GN)	100 pcs.	115-00106
	4.7	200.0	50.0	135	PA66	Orange (OG)	100 pcs.	115-00132
REZ300	4.7	305.0	80.0	135	PA66	Red (RD)	100 pcs.	115-00043

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. N = Minimum Loop Tensile Strength for Cable Ties (newton)



1-piece fixing ties with arrowhead, with disc

for round holes

With a diverse range of fixing possibilities these ties are ideal for use in many different industries, including automotive, aerospace, white goods manufacture and panel building. This fastening solution is used to secure cable harnesses. We offer a variety of panel thicknesses and hole sizes to suit all kinds of application.

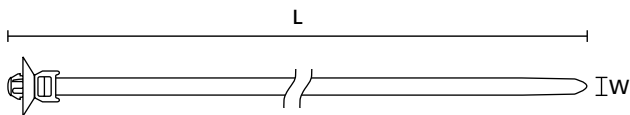
Features and benefits

- Easy to install without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressures from various directions and minimises ingress of dust and dirt
- Cable tie head always situated in a defined position



Integrated sealing disc helps protect the mounting hole against dirt and moisture ingress.

Material specifications: See Article-No. on our website.



Reference for dimensions only

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	Material	Colour	Tools	Article-No.
PT2ASFT6.5PT0.7-1.5-E		6.3 - 6.7	0.7 - 1.5	3.4	112.7	20.0	PEEK	BGE	1-2;4-5;25	126-00183
T30SOS-AS-SFT6.5-E		6.5 - 7.0	0.8 - 1.5	3.5	126.4	25.0	PA66HS	BK	1-2;4-5;25	126-00255
T30SOSASSFT6.5x4.0E		6.5 6.5 x 4.0	2.4 - 3.0	3.5	126.7	25.0	PA66HS	BK	1-2;4-5;25	126-00341

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, MK7P, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for holes

1-piece fixing tie with arrowhead, with disc

for round holes, releasable

With a diverse range of fixing possibilities are ideal for use in many different industries, including automotive, aerospace and panel building.

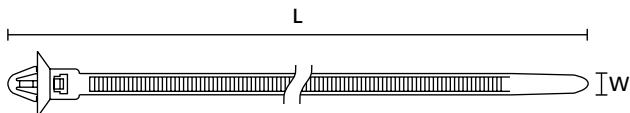
Features and benefits

- Easy to install without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressures from various directions and minimises access of dust and dirt
- Cable tie head always situated in a defined position
- Releasable



RT50SD6.

Material specifications: See Article-No. on our website.



Reference for dimensions only

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	EPD/PEP document	Article-No.
RT50SD6		6.3 - 7.5	0.6 - 1.8	5.0	160.0	31.0	225	PA66HS	BK	1;3;6-7;9-10;25	EPD	111-85480

Recommended Tools: 1=MK10-SB, 3=MK21, 6=ProCut 9 no battery, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



INTERNATIONAL EPD SYSTEM

Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



1-piece fixing ties with arrowhead, with disc

for round holes, sealed

The parts are mainly used in the automotive industry. This fastening solution is used to secure cable harnesses e.g. in car doors. We offer a variety of panel thicknesses and hole sizes to suit all kinds of application. The seal protects the interior and surrounding cables among other things from splash water.

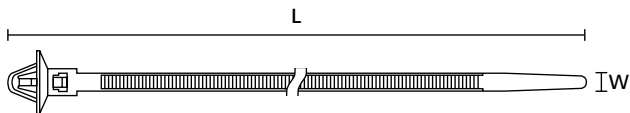
Features and benefits

- One-piece fixing ties with cellular rubber disc
- Especially suitable for door and tailgate harnesses used for car body applications
- Made from PA66 heat-stabilised material
- Cellular rubber disc minimises ingress of dust, dirt and splash water



The additional seal protects against the ingress of moisture.

Material specifications: See Article-No. on our website.



Reference for dimensions only

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50SOSSFT6.5E-MDL		6.3 - 6.7	0.6 - 1.8	4.6	158.8	30.0	225	PA66HS	GN	1-2;4-7;25	126-03100

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for holes

2-piece fixing ties with arrowhead, with disc

for round holes, for parallel routing

Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

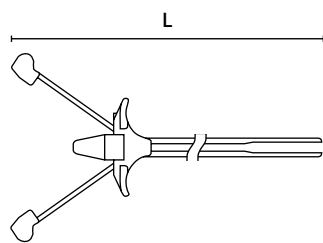
Features and benefits

- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place

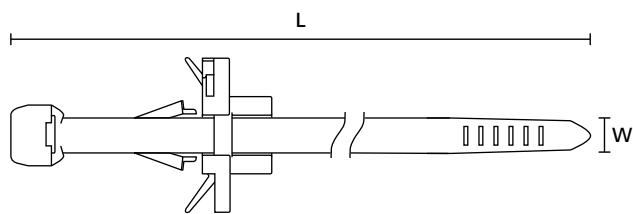


T50SOSDSFT6.5 for parallel routing.

Material specifications: See Article-No. on our website.



Reference for dimensions only



Reference for dimensions only

TYPE	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50SOSDSFT6.5	6.3 - 6.7	0.7 - 1.5	4.6	150.0	15.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-00133

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



1-piece fixing ties with arrowhead, with wings

for round holes

For bundling and fixing of cable harnesses, pipes and hoses in many different industries, including automotive, aerospace, white goods manufacturing and panel building.

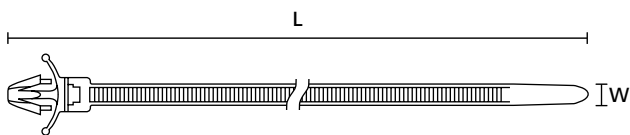
Features and benefits

- Easy to assemble without the need for a tool
- Cable tie head always situated in defined position
- Arrowhead simply locks into place
- Supporting legs provide a secure and firm fixing in areas where space is limited



A wide range of arrowhead fixing ties which are suitable for different panel thicknesses and hole diameters.

Material specifications: See Article-No. on our website.



Reference for dimensions only

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T18RSF		4.65 - 4.85	0.8 - 3.0	2.5	100.0	16.0	80	PA66HS	NA	1-2;4-5;25	126-00416
		4.65 - 4.85	1.0 - 3.0	2.5	100.0	16.0	80	PA46	GY	1-2;4-5;25	126-00420
T50VSL5		6.1 - 6.3	1.0 - 2.6	4.6	100.0	16.0	225	PA66	NA	1-2;4-5;25	126-00377
T50SSL5		6.1 - 6.5	0.5 - 2.7	4.6	135.0	27.0	225	PA66	NA	1-2;4-7;25	111-85339
T50SSFm		6.0 - 6.6	0.7 - 3.0	4.6	160.0	35.0	222	PA66	NA	1-2;4-7;25	111-85739
		6.0 - 6.6	0.7 - 3.0	4.6	160.0	35.0	222	PA66HS	NA	1-2;4-7;25	126-01104
		6.0 - 6.6	0.7 - 3.0	4.6	160.0	35.0	225	PA66	NA	1-2;4-7;25	126-00327
T50RWPM6-E-HEX		6.1 - 6.6 (hexagonal)	0.7 - 3.0	4.6	205.0	45.0	225	PA66HS	BK	1-2;4-5;25	126-00138
T50SAH		6.0 - 6.6	0.7 - 3.0	4.6	160.0	25.0	225	PA66HS	NA	1-2;4-5;25	155-41102

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for holes

1-piece fixing ties with arrowhead,

with wings, vibration damped

Features and benefits

- Bundling and fixing solution
- Ideal combination of materials and design
- Different positions of the fixing anchor are available to fit installation space



Our 1-piece fixing ties with the AntiSlip engraving and the vibration damper are perfect for securely routing cables and decoupling them from the ground.

TYPE	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50SVD	6.0 - 6.6	0.7 - 3.0	4.6	161.0	25.0	225	PA66HS	NA	1-2;4-5;25	150-23295
T30ROSASVDWPM6.6E	6.3 - 7.0	2.6 - 5.0	3.5	174.8	35.0	200	PA66HIRHS	BK	1-2;4-5;25	126-00398

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes.



1-piece fixing ties with arrowhead, with wings

for round holes, releasable

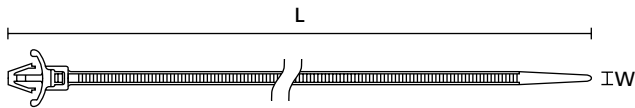
With a diverse range of fixing possibilities are ideal for use in many different industries, including automotive, aerospace and panel building.

Features and benefits

- Easy to assemble without the need for a tool
- Cable tie head always situated in defined position
- Arrowhead simply locks into place
- Supporting legs provide a secure and firm fixing in areas where space is limited
- Releasable



A wide range of arrowhead fixing ties which are suitable for different panel thicknesses and hole diameters.



Reference for dimensions only

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
YQR10016		6.9 - 7.1	1.60 - 4.00	4.6	165.0	34.0	225	PA66	GY	1-2;4-5;25	126-03000
RT50RSF		7.8 - 8.2	0.8 - 2.5	4.6	215.0	50.0	225	PA66	BK	1-2;4-5;25	115-07010

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for holes

1-piece fixing ties with arrowhead

without wings and disc, for round holes

The arrowhead design is usefull in areas with limited space.

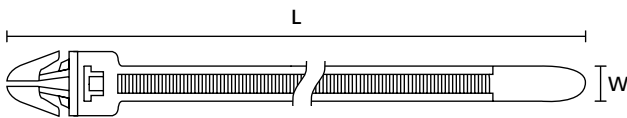
Features and benefits

- Easy to assemble without the need for a tool
- Fixing tie with arrowhead without wings
- Arrowhead simply locks into place
- Cable tie head always situated in defined position



The arrowhead design allows these fixing ties to be used in areas with limited space.

Material specifications: See Article-No. on our website.



Reference for dimensions only

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T30RSF		4.7 - 5.6	0.9 - 2.4	3.6	158.0	32.0	135	PA66	NA	1-2;4-5;25	126-00330
T50RSF(E)		6.2 - 6.4	2.9 - 3.0	4.6	210.0	44.0	225	PA66	NA	1-2;4-5;25	111-85799

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



2-piece fixing ties with arrowhead, with disc

for round holes

Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear and white goods manufacturing.

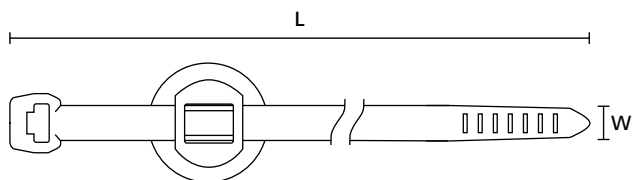
Features and benefits

- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt



Being a two-piece assembly allows the tie head to be located in the most convenient position.

Material specifications: See Article-No. on our website.



Reference for dimensions only

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50RDHSFT6.5D18		6.5 - 6.8	0.40 - 1.60	4.7	210.0	45.0	225	PA66HS PA46	BK, GY	1-2;4-7;25	156-01720
T30RSFT6.5D18		6.5 - 6.8	0.4 - 1.6	3.6	148.0	30.0	225	PA66HS PA46	BK, GY	1-2;5;25	156-01719
T50RSFT6.5		6.3 - 6.7	0.7 - 2.0	4.6	200.0	45.0	225	PA66HS	BK	1-2;4-7;25	156-01697

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



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Cable Ties and Fixings

Fixing products for holes

2-piece fixing ties for high temperature applications up to +240 °C

With arrowhead, with disc, for round holes

The ties with fixing element are ideal when the requirement for temperature or chemical resistance is very high. They are used for cable harnesses in the automotive industry.

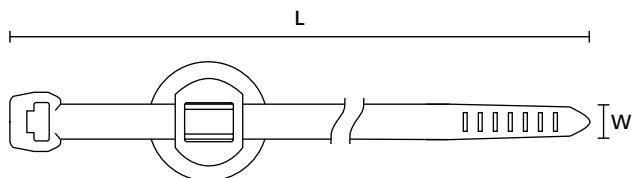
Features and benefits

- -55 °C to +240 °C operating temperature
- Excellent resistance against chemicals and gamma radiation
- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressure from various directions and minimises ingress of dust and dirt



PEEK fixing ties can be used for small diameters from 1,0 mm.

Material specifications: See Article-No. on our website.



Reference for dimensions only

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50ROSP2SFT6.5		6.3 - 6.7	1.7 - 2.3	4.6	200.0	45.0	225	PA46 PEEK	GY, BGE	1-2;4-7;25	156-00456

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



2-piece fixing ties with arrowhead, with wings

for oval holes

Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear manufacturer, white goods manufacturer.

Features and benefits

- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Versions for oval holes feature anti-twist protection



T50RFT6OVAL for oval holes 6.3 x 12.2 mm.

Material specifications: See Article-No. on our website.

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50RFT6OVAL		6.3 x 12.2	0.6 - 3.0	4.6	202.0	45.0	222	PA66HS PA66HIRHS	BK	1-2;4-7;25	150-37591

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for holes

Fixing elements for tubes and harnesses

KSFT6.5OC with low arrowhead

This fixing elements can be used ideally everywhere where space saving work is necessary. In case of maintenance, the tubes and harnesses can be exchanged.

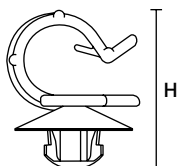
Features and benefits

- Fixing part with rounded arrowhead to minimise assembly height
- Ideal for applications where space is limited
- Simply clip on a wire or hose
- Bundle diameter is defined
- Suitable for post-installation of bundles



The very low arrowhead is specially designed for narrow installation spaces.

Material specifications: See Article-No. on our website.



KSFT6.5 OC 7-9

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Attach to Ø	Height (H)	Material	Colour	Article-No.
KSFT6.5OC1-3		6.3 - 6.7	2.30 - 2.70	1.0 - 3.0	14.4	PA66HIRHS	Black (BK)	151-01843
KSFT6.5OC7-9		6.3 - 6.7	2.30 - 2.70	7.0 - 9.0	21.6	PA66HIRHS	Black (BK)	151-01844

All dimensions in mm. Subject to technical changes.



Wire push in clips

WPC-Series

With the increased complexity of electronic and electrical installations the use of WPC Clips enables cables to be installed using a minimum amount of space. A perfect solution for the frame/rails of control cabinets or the white goods industry.

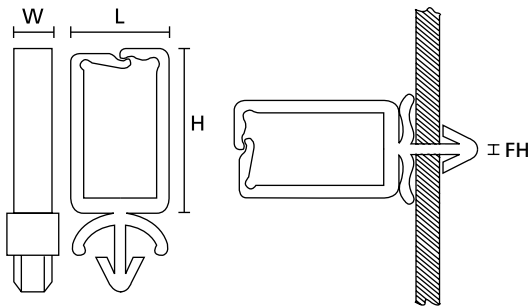
Features and benefits

- Accept single or multiple wires
- Simply push wires into place
- Arrowhead design for simple and secure installation
- Access to panel only needed from one side



WPC – Wire Push In Clip.

Material specifications: See Article-No. on our website.



WPC Wire Push In Clip (side view, front view, in application)

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Height (H)	Material	Colour	Article-No.
WPC5		4.7	0.80 - 4.00	5.3	15.0	12.7	PA66	Natural (NA)	151-75059
WPC10		4.7	0.80 - 4.00	5.3	15.0	17.7	PA66	Natural (NA)	151-75109
WPC15		4.7	0.80 - 4.00	5.3	15.0	22.7	PA66	Natural (NA)	151-75159
WPC20		4.7	0.80 - 4.00	5.3	15.0	27.7	PA66	Natural (NA)	151-75209

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for holes

Fixing elements with arrowhead for round holes

Harness push in clips, HC-Series

This fixing element is pressed into a hole manually and locks into place with an audible click. Cable bundles can be applied afterwards.

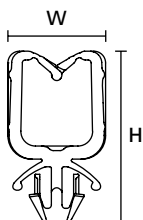
Features and benefits

- Accept single or multiple wires
- Simply push wires into place
- Arrowhead design for simple and secure installation
- Access to panel only needed from one side



Harness clip made of polypropylene with arrow head for round holes 6.3 mm.

Material specifications: See Article-No. on our website.



HC10.5WPM6.3

TYPE	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Height (H)	Material	Colour	Article-No.
HC10.5WPM6.3	6.1 - 6.6	1.0 - 3.0	9.5	16.7	19.8	PP	Black (BK)	151-03957

All dimensions in mm. Subject to technical changes.



Fixing elements for T-slotted aluminium frames

ACFM-Series

The Aluminium Clip Frame Mounts (ACFM-Series) are specifically designed for use with aluminium construction profiles. Installation and handling is seamless - simply twist the mounts 90 degrees to secure them firmly into position at the desired positions along the profile. These mounts can also be loosened and repositioned easily for quick adjustment and the ongoing maintenance of cables. The range of aluminium frame mounts are suitable for use with various aluminium construction profiles from a range of manufacturers.

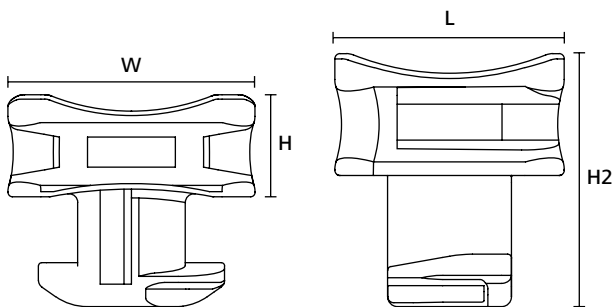
Features and benefits

- Quick and easy to install (quarter-turn fixing)
- 2-way cable tie entry, allowing cables to be fixed lengthways or sideways to the profile
- Curved design ensures that cables are supported centrally to the mount
- Secure fixing once installed
- Suitable for cable ties up to 8 mm wide



The Aluminium Clip Frame Mounts (ACFM) are special designed for Aluminium Construction Profiles.

Material specifications: See Article-No. on our website.



TYPE	Panel Thickness	Groove Width	Width (W)	Length (L)	Height (H)	Height (H2)	Product Family	Material	Colour	Pack Cont.	Article-No.
ACFM4W8PT2.2	2.2	8.0	22.5	17.5	9.3	15.0	For Bosch Rexroth Strut profiles slot 8	PA66/6HIRHS	Black (BK)	500 pcs.	151-03176
ACFM8W6.2PT2.75	2.8	6.2	22.5	17.5	9.3	15.3	For ITEM 6 frame	PA66/6HIRHS	Black (BK)	500 pcs.	151-03248

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for holes

Fixing elements for tubes and harnesses with automatic locking feature

with arrowhead, for round holes

Offering a simple and secure method of attaching cables to panels. Originally designed for the automotive industry, these products are used in a wide range of applications with sheet metal panels across various industries.

Features and benefits

- Push and click closure for fixing of wires
- Clip is clicked into a specific hole
- AHC()SS und AHC()SB can be pushed onto a 5.0 mm stud

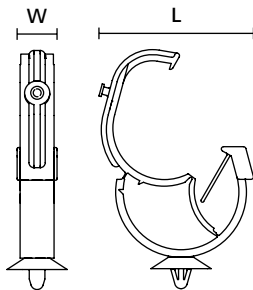


Automatic Harness Clip closed.



Automatic Harness Clip open.

Material specifications: See Article-No. on our website.



AHC-Series

TYPE	Drawing	Panel Thickness	Bundle Ø max.	Disc Ø	Width (W)	Length (L)	Material	Colour	Article-No.
AHC1AH		0.7 - 2.2	13.0	20.0	10.0	26.2	PA66HIRHS	Black (BK)	151-02874

All dimensions in mm. Subject to technical changes.



1-Piece Fixing Ties with Fir Tree, with Disc, releasable

1-Piece Fixing Ties with Fir Tree, with Disc, releasable, for round holes

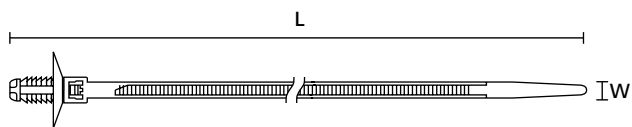
This fir tree design is ideal for use in thick panels and threaded, blind holes. The additional disc avoids the intrusion of dust and dirt.

Features and benefits

- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt



REL30SDP6.



Reference for dimensions only.

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	EPD/PEP document	Article-No.
REL30SDP6		6.3 - 7.1	3.0 - 7.0	5.0	170.0	31.0	135	PA66	BK	1;3;6-7;9-10;25	EPD	150-55500

Recommended Tools: 1=MK10-SB, 3=MK21, 6=ProCut 9 no battery, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



INTERNATIONAL EPD SYSTEM

Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Cable Ties and Fixings

Fixing products for holes

1-piece fixing ties with fir tree, with disc, for round holes

Fir tree parts FT5

Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear manufacturer, white goods manufacturer.

Features and benefits

- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises ingress of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Parts with an anti-slip engraving, such as the T30SOS-AS-FT5-E, to prevent the harness from slipping sideways



Fir tree foot parts can be used for a variety of panel thicknesses.

Material specifications: See Article-No. on our website.

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T18RDP5		4.9 - 5.1	3.0 - 4.0	2.5	110.0	20.0	80	PA66	BK	1-2;4-5;25	150-55610

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)

Fir tree parts FT6

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Bundle Ø max.	N	Material	Colour	Tools	EPD/PEP document	Article-No.
T50SOSFT6D10E		5.8 - 6.2	0.8 - 5.5	4.6	32.0	200	PA46	GY	1-2;4-5;25	-	157-00028
T50SOSFT6E2		6.3 - 7.0	0.6 - 4.2	4.6	35.0	180	PA66HS	BK	1-2;4-7;25	-	157-00085
T50SOSFT6LGE		6.3 - 7.0	0.7 - 7.0	4.6	35.0	180	PA66HS	BK	1-2;4-7;25	EPD	157-00228
T30SOS-AS-FT6-E		6.3 - 6.7	0.6 - 4.0	3.5	25.0	200	PA66HS	BK	1-2;4-5;25	-	157-00243
T50SOSFT6LG-E2		6.1 - 6.9 6.1 - 6.6 (hexagonal)	0.6 - 8.25	4.6	35.0	180	PA66HIRHS	BK	1-2;4-7;25	-	157-00242

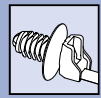
Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



INTERNATIONAL EPD SYSTEM

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Fir tree parts FT7

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
FT220DP7		6.8 - 7.2	0.8 - 5.0	4.7	232.0	40.0	225	PA66	BK	1-2;4-5;25	150-01700

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)

Fir tree parts FT8

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50S0SFT8E		8.0 - 8.5	0.6 - 6.0	4.6	163.0	35.0	225	PA66HS	BK	1-2;4-7;25	157-00072

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for holes

1-piece fixing ties with fir tree, with disc

for oval holes

Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

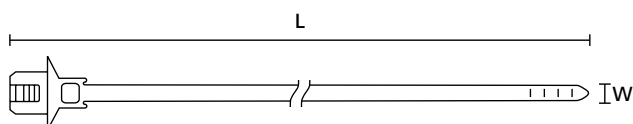
Features and benefits

- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Versions for oval holes feature anti-twist protection.



This 1-piece fixing tie with fir tree design for oval holes features anti-twist protection.

Material specifications: See Article-No. on our website.



1-piece fixing tie with fir tree, with disc, for oval holes

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50S0S-AS-DFTOVAL-E		6.5 x 12.5	0.6 - 6.75	4.6	166.4	35.0	180	PA66HIRHS	BK	1-2;4-5;25	157-00414

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



2-piece fixing ties with fir tree, with disc, for round holes

Fir tree parts FT3

Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

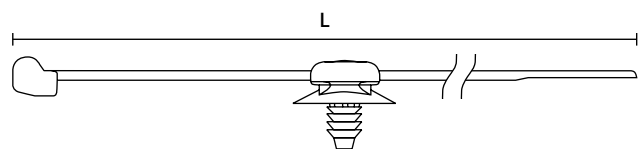
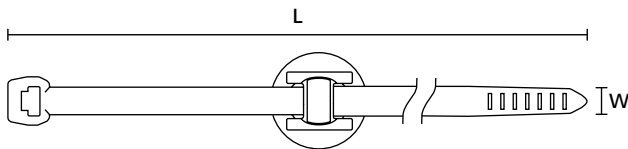
Features and benefits

- Pre-assembled 2-piece fixing tie with fir tree foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes



These fir tree fixings can also be used in threaded, blind holes.

Material specifications: See Article-No. on our website.



TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T18RFT3		M3	1.5 - 3.0	2.5	100.0	20.0	80	PA66HSUV	BK	1-2;4-5;25	156-00338

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)

Fir tree parts FT5

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T18RFT5		4.5 - 5.0	0.7 - 3.0	2.5	100.0	22.0	80	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-01225
T50SOSFT5SD		4.5 - 5.0	0.7 - 3.0	4.6	150.0	35.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-00432
T30RFT5		4.5 - 5.0	0.7 - 3.0	3.5	150.0	35.0	135	PA66HS PA66HIRHS	BK	1-2;4-5;25	150-55850

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for holes

Fir tree parts FT6

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	Material	Colour	Tools	Article-No.
T30RFT6SD		6.4 - 7.1	0.75 - 3.0	3.5	150.0	35.0	PA66HS PA66HIRHS	BK	1-2;4-5;25	150-52690
T50ROSFT6SD		6.4 - 7.1	0.75 - 3.0	4.6	200.0	46.0	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-05902
T50RFT6LGSD-HEX		6.25 - 6.75 6.1 - 6.6 (hexagonal)	0.7 - 5.0	4.6	202.0	45.0	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-01705

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes.

Fir tree parts FT8

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.		Material	Colour	Tools	Article-No.
T50RFT8		7.7 - 8.0	0.8 - 6.0	4.6	202.0	45.0	225	PA66HS	BK	1-2;4-7;25	111-85880
T40RFT8GSD		8.0 - 8.5	1.5 - 4.0	4.0	180.0	40.0	180	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-00104
T50RFT8GSD		8.0 - 8.5	1.5 - 4.0	4.6	202.0	45.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	133-00034

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



1-piece fixing ties with fir tree, with disc, with stand-off, for round holes

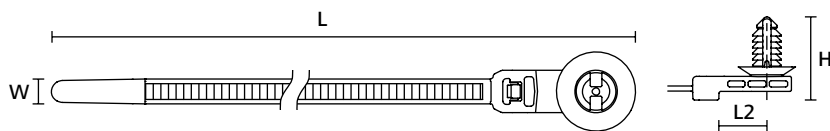
With offset 12.5 and 25.0 mm

Features and benefits

- Bundling and fixing solution
- Ideal combination of materials and design
- Different positions of the fixing anchor are available to fit installation space



Designed for optimal spacing: the integrated stand-off in this 1-piece fixing tie ensures secure cable routing while preventing contact with surfaces, ideal for high-performance applications.



TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Article-No.
T50ROSFT612.5SO		6.1 - 6.9	0.6 - 6.0	5.1	234.2	50.0	222	PA66HIRHSUV	BK	157-00519
T50ROSFT6SO12.5A		6.1 - 7.0 6.35	0.6 - 6.65	5.1	215.9	50.0	225	PA66HIRHSUV	BK	157-00145
T50ROSFTM6SO25B		M6	0.6 - 5.5	4.6	230.0	50.0	222	PA66HIRHSUV	BK	157-00172
T50ROSFT6SO12.5R		6.1 - 7.0	0.6 - 8.25	5.1	223.1	50.0	222	PA66HIRHSUV	BK	157-00514

Recommended Tools: 1=MK10-SB, 2=MK20, 3=MK21, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for holes

2-piece fixing ties with deep hole anchor, with disc, for round holes

Deep hole anchor DHA5.5 - DHA8.4

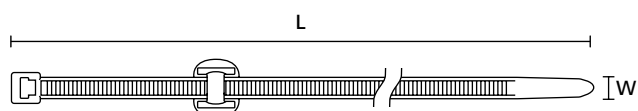
Features and benefits

- Pre-assembled 2-piece fixing tie with deep hole anchor
- The high 'pull off' forces are due to the integrated metal clamp
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises ingress of dust and dirt
- Suitable for use within blind holes with or without thread



T50RDHA8.4x20-PA46 for blind hole applications and with higher temperature requirements, include transportation cap to protect the harness during transportation.

Material specifications: See Article-No. on our website.



Fixing tie with deep hole anchor

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50RDHA5.5x15		5.4 - 5.6	15.0	4.6	202.0	45.0	225	PA46	GY	1-2;4-5;25	156-01203
T50RDHA8.4x20		8.3 - 8.5	20.0	4.6	202.0	45.0	225	PA46	GY	1-2;4-5;25	156-01155

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Fixing elements for tubes and hanneses

with fir tree

This Fixing Element is pressed into a hole by hand and locked into place with a hearable click. Cable bundles can be applicated afterwards.

Features and benefits

- Easy to install without the need for a tool
- Types with disc cover the hole and protect against dirt and dust ingress
- Rattlefree and secure hold of bundles due to retaining collar
- Suitable for post-installation of bundles
- Easy replacement of bundles in case of maintenance



The HC48FT6 is designed for Bundle diameter 4.3 - 5.2 mm.

Material specifications: See Article-No. on our website.

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Attach to Ø	Height (H)	Material	Colour	Article-No.
HC48FT5		4.5 - 5.0	0.7 - 3.0	4.3 - 5.2	21.0	PA66HIRHS	Black (BK)	151-01405
HC48FT6		6.5 - 7.0	0.7 - 2.8	4.3 - 5.2	20.8	PA66HIRHS	Black (BK)	151-00680

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for holes

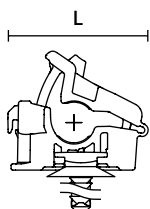
Fixing elements with fir tree for round holes

In-Line Ratchet P-Clamp, B-Series

The In-line Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and high-performance materials make it ideal for heavy duty applications, both indoors and out. The adjustable clamp can be closed by hand to the desired diameter. The release feature allows easy and nondestructive removal of cables simply by using a flat-head screwdriver. In this way, the clamp can be reused or serviced without removing it from the mounting surface.

Features and benefits

- One-piece ratchet closure allows for easy installation during pre- or final assembly
- Easy release feature simplifies quick adjustments and maintenance
- Impact modified, heat and UV stabilized PA66 provides excellent resistance to environmental conditions, indoors and out
- High-performing round fir trees mean no additional fastener is needed for mounting



*In-Line Ratchet
P-Clamp*



Inline Ratchet P-Clamp for round hole applications.

TYPE	Width (W)	Length (L)	Hole Ø (FH)	Bundle Ø min.	Bundle Ø max.	Material	Colour	Article-No.
IRCBFT6.5LG	34.9	34.8	6.5	12.7	19.6	PA66HIRHSUV	Black (BK)	156-02707

All dimensions in mm. Subject to technical changes.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Fixing elements with fir tree for oval holes

In-Line Ratchet P-Clamp, B-Series

The In-line Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and high-performance materials make it ideal for heavy duty applications, both indoors and out. The adjustable clamp can be closed by hand to the desired diameter. The release feature allows easy and nondestructive removal of cables simply by using a flat-head screwdriver. In this way, the clamp can be reused or serviced without removing it from the mounting surface.

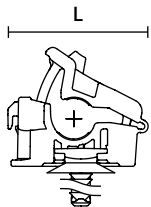
Features and benefits

- One-piece ratchet closure allows for easy installation during pre- or final assembly
- Easy release feature simplifies quick adjustments and maintenance
- Impact modified, heat and UV stabilized PA66 provides excellent resistance to environmental conditions, indoors and out
- High-performing oval fir trees ensure anti-twist protection



In-line Ratchet P-Clamp for oval hole applications.

Material specifications: See Article-No. on our website.



In-Line Ratchet P-Clamp

TYPE	Width (W)	Length (L)	Hole Ø (FH)	Bundle Ø min.	Bundle Ø max.	Material	Colour	Article-No.
IRCBFTOVAL	34.9	34.8	7.0 x 12.0	12.7	19.6	PA66HIRHSUV	Black (BK)	156-02628

All dimensions in mm. Subject to technical changes.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Cable Ties and Fixings

Fixing products for holes

Fixing elements for tubes and pipes

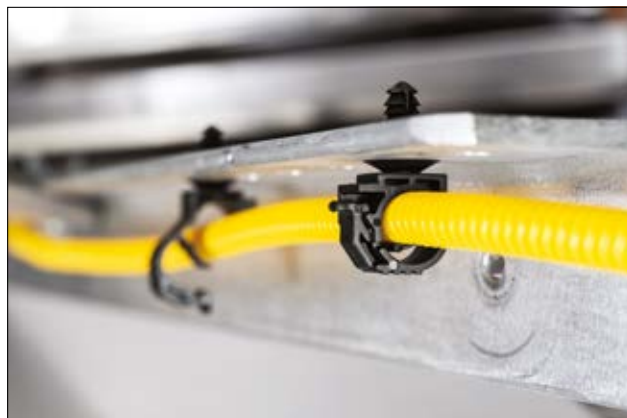
with fir tree for round holes and cover, LOC-Series

These clips offer fast and easy bundling of convoluted tubes and pipes, especially for the automotive industry.

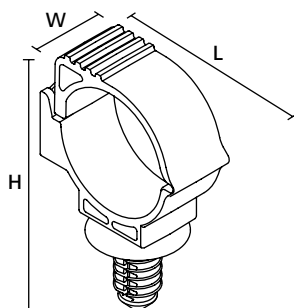
Features and benefits

- For fixing and bundling convoluted tubes and pipes
- Vibration resistant, rattle-free and secure hold of bundle
- In case of maintenance easy replacement of bundle possible

Material specifications: See Article-No. on our website.



The locking clamps of the LOC-Series offer fast and easy bundling of convoluted tubes and pipes.



Reference drawing for dimensions only

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Material	Colour	Article-No.
LOC5-9FT6LG		6.1 - 6.6 (hexagonal) 6.1 - 7.0	0.6 - 8.25	9.0	12.0	23.7	37.1	PA66HIRHSUV	Black (BK)	151-01017
LOC10-14FT6LG		6.1 - 6.6 (hexagonal) 6.1 - 7.0	0.6 - 8.25	14.0	12.0	34.9	57.8	PA66HIRHSUV	Black (BK)	151-01166
LOC15-19FT6LG		6.1 - 6.6 (hexagonal) 6.1 - 7.0	0.6 - 8.25	19.0	12.0	31.6	47.5	PA66HIRHSUV	Black (BK)	151-01022
LOC20-25FT6.5LG		6.1 - 6.6 (hexagonal) 6.1 - 7.0	0.6 - 8.25	25.0	12.0	37.2	53.6	PA66HIRHSUV	Black (BK)	151-01371

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and pipes

with fir tree for oval holes and cover, LOC-Series

These clips offer fast and easy bundling of convoluted tubes and pipes, especially for the automotive industry.

Features and benefits

- For fixing and bundling convoluted tubes and pipes
- Vibration resistant, rattle-free and secure hold of bundle
- In case of maintenance easy replacement of bundle possible



Open Pipe Clip LOC15-19FTOVAL.

Material specifications: See Article-No. on our website.

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Material	Colour	Article-No.
LOC15-19FTOVAL		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	19.0	12.0	31.6	49.5	PA66HIRHSUV	Black (BK)	151-01049
LOC5-9FTOVAL		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	9.0	12.0	25.5	34.2	PA66HIRHSUV	Black (BK)	151-01306

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for holes

Fixing elements for corrugated tubing, with fir tree

for round and oval holes

These clamps are used for example in the automotive industry, harness making, electrical industry and wherever corrugated tubing has be quickly and firmly fixed.

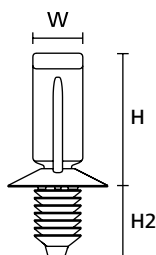
Features and benefits

- Clamps for a variety of nominal diameters
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Tube is guided accurately by clicking
- Axial slipping is prevented by the inside profile of the clamp



CNCTC8FT6.5LG Clamps.

Material specifications: See Article-No. on our website.



TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Nominal Ø	Bundle Ø max.	Width (W)	Height (H)	Height (H2)	Material	Colour	Article-No.
LC9FTOVAL		6.2 x 12.2 6.5 x 12.5 6.5 x 13.0 7.0 x 12.0	0.6 - 6.75	14.4	9.8	10.0	37.7	13.2	PA66HIRHS	Black (BK)	151-01880

All dimensions in mm. Subject to technical changes.



Fixing elements for tubes and harnesses

with fir tree for round holes

These clips offer fast and easy bundling of convoluted tubes and pipes, especially for the automotive industry.

Features and benefits

- For fixing and bundling convoluted tubes and pipes
- Suitable for nearly every application



Fixing element with fir tree and harness clip 11-15 mm

TYPE	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Width (W)	Length (L)	Height (H)	Material	Colour	Article-No.
HC11-15FT6.5	6.35 (hexagonal) M8 x 1.25 Threaded 6.1 - 7.0	0.5 - 3.5	15.0	11.0	28.7	32.0	PA66HIRHS	Black (BK)	151-04197

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for bundle separation

2-piece fixing ties for parallel separation

twistable up to 90°

The fixing ties with coupler is a fastening solution designed to ensure parallel routing of two bundles of tubes, cables, or harnesses. Thanks to its design, each tie can twistable up to 90°, offering great flexibility during installation. The coupler also serves as a spacer: it maintains a space between two harnesses to prevent the risk of friction, especially when cables cross each other. Widely used in the automotive industry, this solution is particularly suitable for securing fluid pipes (fuel, engine cooling...)

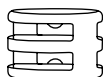
Features and benefits

- Pre-assembled 2-piece fixing tie with coupler
- Cable tie head can be moved after bundling
- Easy addition of cables after assembly
- For parallel routing of bundles that can be twisted 90° even after installation

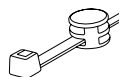


T50RCOUPLER for parallel routing.

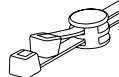
Material specifications: See Article-No. on our website.



Coupler



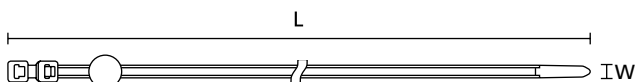
T-Series SINGLECOUPLER



T-Series with Coupler



S-Series with Coupler



Cable Ties with Coupler

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50RCOUPLER	4.6	202.0	47.0	225	PA66HIRHS PA66HIR(S)	BK	1-2;4-7;25	156-00276

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Fixing base

LOK04-Series, spacer for parallel routing

The LOK04 spacer is ideal whenever two or more cables are routed in parallel.

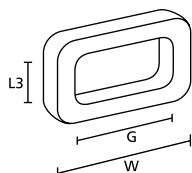
Features and benefits

- For routing bundles over a distance in parallel
- Can be used with cable ties up to 9 mm cable tie width



LOK04 ring for parallel routing.

Material specifications: See Article-No. on our website.



LOK04

TYPE	Width (W)	Length (L3)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
LOK04	16.0	4.0	9.0	PA66	Black (BK)	500 pcs.	151-80400

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for self-adhesive fixing

Cable tie mounts with high performance adhesive

FlexTack-Series FMB for round and angled surfaces

FlexTack cable tie mounts can be successfully applied to a variety of high- and low-energy surfaces such as glass, metals (including painted, varnished or powder-coated surfaces) as well as plastics. FlexTack provides a reliable fixing solution where it is impractical to use screws or bolts. The unique design in combination with the special acrylate adhesive makes professional cable management easy.

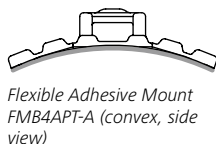
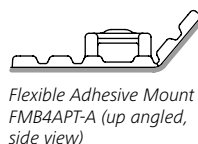
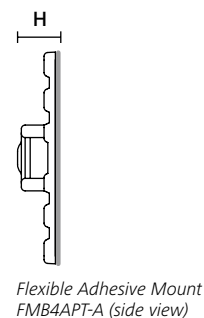
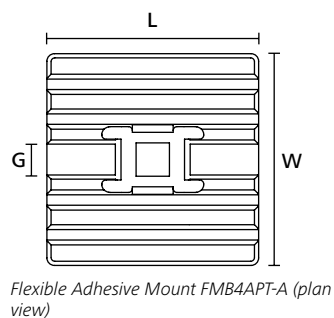
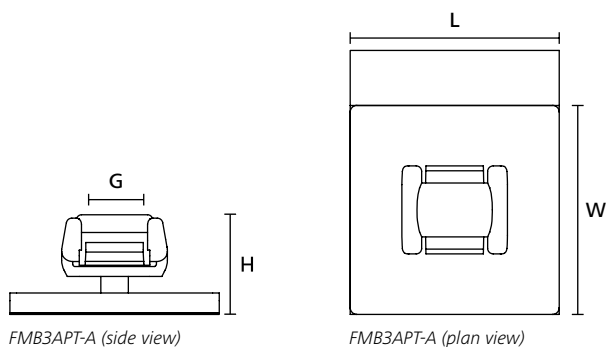
Features and benefits

- Flexible mount for round and angled surfaces
- FMB mounts with homogeneous system of acrylic adhesive
- Allows greater design freedom and offers uniform stress distribution along with weight reduction
- Innovative fixing solution for high and low energy surfaces
- Protection foil with finger lift for easy peel off
- FlexTack cable tie mounts are also suitable for high energy surfaces like metal or glass.



Flexible cable tie mount, FlexTack in use on a concave surface.

Material specifications: See Article-No. on our website.



TYPE	Width (W)	Length (L)	Height (H)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
FMB4APT-A	28.0	28.0	6.3	5.4	PA66HS	Black (BK)	100 pcs.	151-02219
	28.0	28.0	6.3	5.4	PA66HS	White (WH)	100 pcs.	151-02977

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable tie mounts with high performance adhesive

SolidTack-Series MB

SolidTack MB Series mounts have a square design and are fairly common in areas like electrical cabinet, railway, aerospace, automotive and agriculture machinery. The premium self-adhesive bonds well on high and low-energy surfaces like plastics, metal, varnish or paint and is suitable for a wide range of applications.

Features and benefits

- MB mounts with homogeneous system of acrylic adhesive
- Very good initial adhesion, increases with time
- Innovative fixing solution for high and low energy surfaces
- Protection foil with finger lift for easy peel off

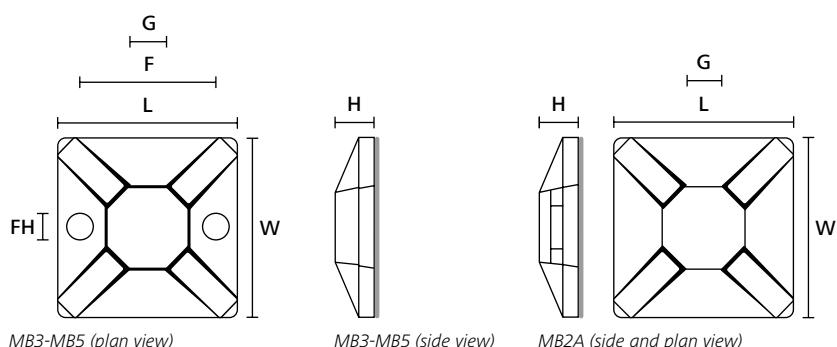


SolidTack MB Series mounts with square design - screwable, self-adhesive - suitable for a wide range of applications like fastening of cables in the automotive machinery.

MATERIAL	Polyamide 6.6 (PA66)
Adhesive	Acrylate with base of acrylic foam
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2 (excluding adhesive)

HF ✓

RoHS ✓



TYPE	Width (W)	Length (L)	Height (H)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
MB2APT-A	13.0	13.0	4.1	2.7	PA66	Black (BK)	100 pcs.	151-02243
MB3APT-A	19.0	19.0	3.8	4.4	PA66	Black (BK)	100 pcs.	151-02244
	19.0	19.0	3.8	4.4	PA66	White (WH)	100 pcs.	151-02978
MB4APT-A	28.0	28.0	4.7	5.6	PA66	Black (BK)	100 pcs.	151-02245
MB5APT-A	38.0	38.0	6.4	10.0	PA66	Black (BK)	100 pcs.	151-02247

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable Ties and Fixings

Fixing products for self-adhesive fixing

Mounts with cable clip, self-adhesive

RA-Series

These mounts are ideal for use in applications which are difficult to access or for areas where self adhesive is the only possible fixing method and fixing holes would be unacceptable. The self adhesive mounts can be used without cable ties. Offering process optimization in industries like automotive, bus and truck, construction vehicles or industrial building.

Features and benefits

- One-piece self adhesive mount for quick and easy installation
- Can be used without cable ties offering process optimization
- Designed to hold wires, cables or hoses
- Different sizes for various bundle diameters available
- Two types of adhesive can be offered



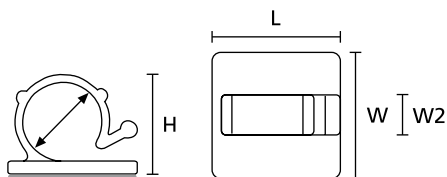
Self adhesive one piece fixing mounts RA6 (l) and RB5 (r).

MATERIAL	Polyamide 6.6 (PA66)
Adhesive	Synthetic rubber with base of polyethylene foam
Operating Temperature	-40 °C to +60 °C
Flammability	UL 94 V2 (excluding adhesive)

HF ✓

RoHS ✓

RoHS ✓



RA3-18 Series (side view)

RA3-18 Series (plan view)

TYPE	Width (W)	Width (W2)	Length (L)	Height (H)	Bundle Ø max.	Operating Temperature	Material	Colour	Pack Cont.	Article-No.
RA3	13.0	5.0	13.0	5.0	3.0	-40 °C to +60 °C	PA66	Natural (NA)	100 pcs.	151-13018
RA9	19.0	7.5	19.0	12.5	9.0	-40 °C to +60 °C	PA66	Natural (NA)	100 pcs.	151-13020

All dimensions in mm. Subject to technical changes.



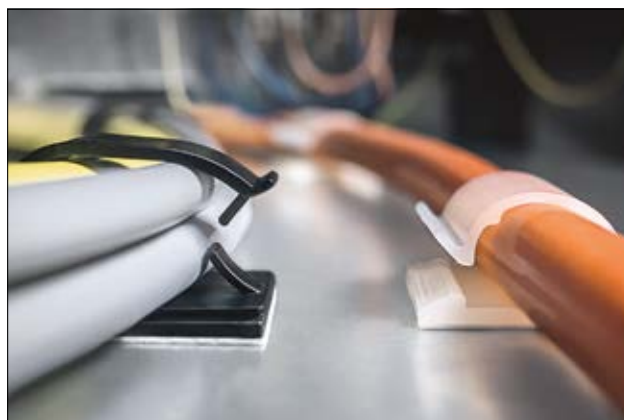
Mounts with cable clip, self-adhesive

RB-Series

RB-Series self adhesive mounts offer greater routing freedom and also reduce the risk of corrosion compared to screw fixing mounts. They are ideally suited for tool-free installation and can be re-opened and reused easily when cables need to be replaced. These mounts can be used without the need for additional cable ties. Offering process optimization in a variety of applications.

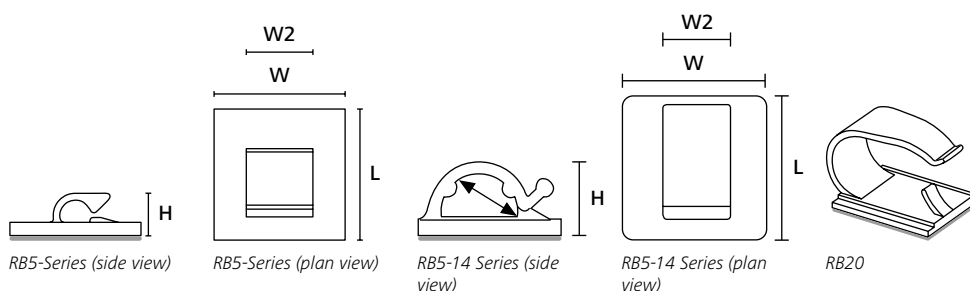
Features and benefits

- Flat design to use in applications with limited space
- One-piece self adhesive mount for quick and easy installation
- Can be used without cable ties offering process optimization
- Different sizes for various bundle diameters available
- Cost effective with easy application on smooth, clean surfaces



Self adhesive one piece fixing mounts RB20 (l) and RB14 (r).

MATERIAL	Polyamide 6.6 (PA66)
Adhesive	Synthetic rubber with base of polyethylene foam
Flammability	UL 94 V2 (excluding adhesive)



TYPE	Width (W)	Width (W2)	Length (L)	Height (H)	Bundle Ø max.	Operating Temperature	Material	Colour	Article-No.
RB5	19.0	9.7	19.0	6.0	5.0	-40 °C to +60 °C	PA66	Natural (NA)	151-14059
RB8	25.0	12.7	25.0	11.5	8.0	-40 °C to +60 °C	PA66	Black (BK)	151-13601
RB14	27.4	23.0	33.2	16.0	14.0	-40 °C to +60 °C	PA66	Natural (NA)	151-00505

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for weld studs

1-piece fixing ties for weld studs

For cable routing alongside the stud

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured.

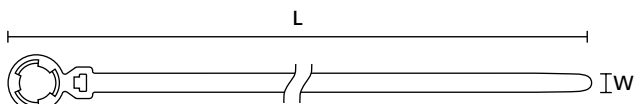
Features and benefits

- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Bundles are routed very close to stud



T50SOSSBD-M8/10.

Material specifications: See Article-No. on our website.



T50SOSSBD-M8/M10

TYPE	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50SOSSBU-M6		M6	5.7	175.0	30.0	150	PA66HSUV	GY	1;3;6-7;9-10;25	157-00065
T50SOSSBD-M8		M8	5.7	175.0	30.0	150	PA66HSW	BK	1;3;6-7;9-10;25	157-00039

Recommended Tools: 1=MK10-SB, 3=MK21, 6=ProCut 9 no battery, 7=EVO9i, 9=EVO9iHT, 10=MK9P, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



1-piece fixing ties for weld studs, lateral adjustment

T50SOSWSP5E-2 for 5 mm studs, retainer height 3.5 mm

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured.

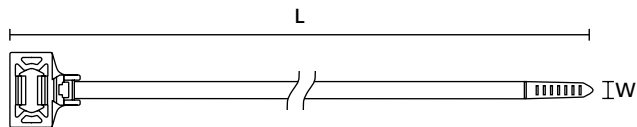
Features and benefits

- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Provides 5 – 6 mm lateral adjustment
- Very low profile, stackable design
- For parallel routing of several bundles



T50SOSWSP5E-2, parallel installation using two fixing ties.

Material specifications: See Article-No. on our website.



T50SOSWSP5E-2

TYPE	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50SOSWSP5E-2		5.0, 6.0	4.6	162.6	35.0	225	PA66HS	BK	1-2;4-5;25	133-01553

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for weld studs

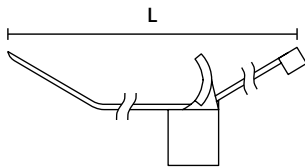
2-Piece Fixing Ties for Weld Studs

SBS5 Series

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where 5mm weld studs or 5mm ISO bolts are used and cables need to be bundled and secured

Features and benefits

- Pre-assembled with cable tie and weld stud mounting base
- Quick and easy installation
- Head rotates into perfect position for installation
- 'Soft-push' design for tool-free installation
- Mushroom-shaped SBH handles insulation or a sound-deadening blanket
- SBS ideal for installation prior to attaching cable (i.e. no lateral tolerances required)
- SB5 allow lateral tolerance for fixing point



2-piece fixing tie for stud bolts 5mm.

TYPE	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50RSBS5		5.0	4.6	200.0	45.0	225	PA66HS	BK	1-2;4-7;25	150-21291

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes.



2-piece fixing ties for weld studs

for parallel routing

Widely used for securing cables pipes and hoses in the automotive and truck building industries, the mounting base is simply pushed onto a 5 mm diameter stud or bolt.

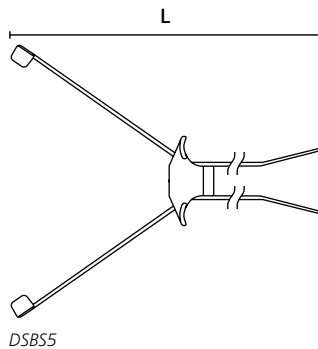
Features and benefits

- Pre-assembled 2-piece fixing tie with stud retainer
- For parallel routing of cables, hoses or harnesses
- Cable tie head can be moved after bundling
- Easy to install without the need for a tool
- For 5 mm studs or 5 mm ISO threaded studs
- Made from PP/PA66HIRHS: combines the material benefits of PP (lightweight, chemically resistant) with the robustness and heat stability of PA66HIRHS – perfect for demanding automotive environments



Parallel fixation of two cables and keeps the bundles close to the cables.

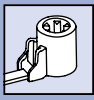
Material specifications: See Article-No. on our website.



TYPE	Drawing	Stud Ø	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50SDSB55		5.0	4.6	150.0	35.0	225	PA66HS PA66HIRHS	BK	1-2;4-5;25	150-56193

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for weld studs

Fixing elements for weld studs

CT-Series

In areas with limited space these mounting bases allow the cable to be slightly offset from the fixing stud, and can be installed in the equipment prior to the cable installation. A major cost saving can be made using these products as they will allow the use of many different sizes of standard cable ties without the need to stock a wide range of specific fixing ties.

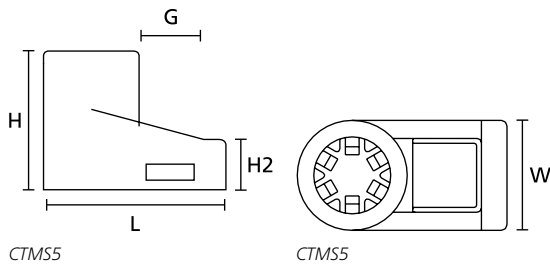
Features and benefits

- Ideal for cable ties up to 4.8 mm wide
- Simply pushed by hand onto an ISO or Fir Tree stud



Fixing Element CTMS5 allows bundles to be routed alongside the stud.

Material specifications: See Article-No. on our website.



TYPE	Width (W)	Length (L)	Height (H)	Height (H2)	Stud Ø	Strap Width max. (G)	Material	Colour	Article-No.
CTMS5	10.0	19.0	14.5	5.3	5.0	5.0	PA66	Black (BK)	151-03301

Recommended Tools: 6=ProCut 9 no battery, 7=EVO9i, 9=EVO9iHT, 10=MK9P. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes.



Fixing elements for corrugated tubing, for weld studs

CTC-Series for weld studs

These holders are used in the automotive industry, in the production of cable harnesses and in the electrical industry. Their quick and easy mounting is the reason for their universal success wherever corrugated tubing and pipes have to be fixed quickly and securely.

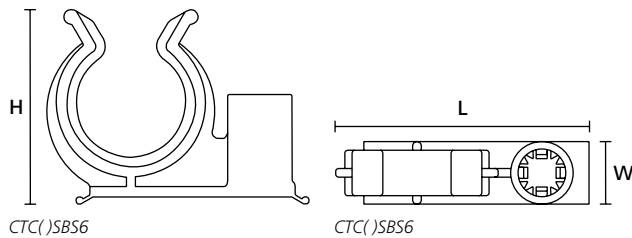
Features and benefits

- Fixing elements for corrugated tubing for nominal diameters from 4.5 - 17.0 mm
- For M6 weld studs
- Soft-Push mechanic for simple assembly, without tool
- Tube is guided accurately by clicking
- Axial slipping is prevented by the inside profile of the clamp
- Clamp can be unscrewed and removed from the weld stud



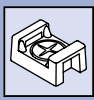
The tubing is clicked into the CTC clamp and is held firmly.

Material specifications: See Article-No. on our website.



TYPE	Drawing	Stud Ø	Nominal Ø	Width (W)	Height (H)	Length (L)	Material	Colour	Article-No.
CTC4.5SBS6		6.0	4.5	11.0	18.7	28.6	PA66HIRHS	Black (BK)	151-00700
CTC7.5SBS6		6.0	7.5	11.0	19.4	31.8	PA66HIRHS	Black (BK)	151-00701
CTC10SBS6		6.0	10.0	11.0	22.2	35.3	PA66HIRHS	Black (BK)	151-00702
CTC13SBS6		6.0	13.0	11.0	26.5	37.0	PA66HIRHS	Black (BK)	151-00703
CTC17SBS6		6.0	17.0	11.0	33.2	44.6	PA66HIRHS	Black (BK)	151-00010

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for screws

1-piece fixing ties with mounting head for screws

M-Series

This range of one piece cable ties have a built in mounting hole and once fastened around the cables the bundle can be simply secured to the panel with a screw or bolt. The tie is fitted to the panel first and then the cables can be added.

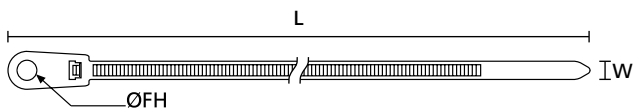
Features and benefits

- One-piece bundling and fixing tie
- Quick and easy installation



The mounting head ties can be easily screwed onto a panel.

Material specifications: See Article-No. on our website.



T(MR Series with Mounting Head for Screw fixing

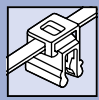
TYPE	Hole Ø (FH)	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T18MR	3.1	2.5	110.0	20.0	80	PA66	NA	1-2;4-5;25	113-01819
T30MR	4.3	3.5	160.0	32.0	135	PA66	NA	1-2;4-5;25	113-03019
T50MR	5.4	4.7	215.0	45.0	225	PA66	NA	1-2;4-7;25	113-05019

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



1-piece fixing ties for edges

EdgeClip series

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. Once the cable tie is fastened around the cables the EdgeClip is presented ready for attaching to the panel. Widely used within the automotive and panel building industries these cable ties and EdgeClips save time and money.

The silver-grey clamp, the heart of our EdgeClips, consists of doubletempered spring steel in accordance with DIN EN 10132-4 C75S. The spring steel gives the clamp both the necessary rigidity to provide high pull-off forces and also sufficient flexibility for various possible applications.

The double coating is applied initially with a zinc plate system followed by inorganic surface sealing. Naturally, no chromium (VI) is used in this process. The clamp therefore complies with the current EU Directive 200/53/EC on end of life vehicles and the prohibition on heavy metals. The refined spring-steel clamp also fulfils the requirements for resistance to salt spray stipulated in DIN EN ISO 9227 NSS (min. 840 h without corrosion of base metal) and DIN EN ISO 6270-Z-CH (min. 720 h without corrosion of base material).

This solution has therefore been approved by many OEMs for exposed installation locations, e.g. in engine compartments and the running-gear area.

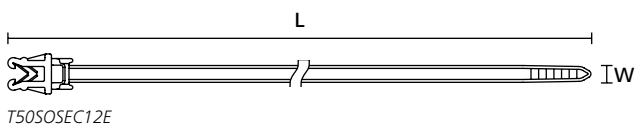


1-Piece Fixing Tie T50SOSEC12 can be pushed easily on edges.

Material specifications: See Article-No. on our website.

Features and benefits

- Easy assembly, just clip on per hand
- For edges of 1 - 3 mm, 1.5 - 4 mm, 3 - 6 mm, 4 - 6 mm or 6 - 8 mm
- Integrated metal clamp holds clip firmly in place
- Clamp consists of double tempered steel spring
- Ideal for applications where holes or adhesives are not suitable



TYPE	Drawing	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50SOSEC12E		1.0 - 3.0	4.6	160.0	35.0	180	PA66HS	BK	1-2;4-7;25	148-00200
T50SOSEC13E		1.0 - 3.0	4.6	160.0	35.0	180	PA66HS	BK	1-2;4-7;25	126-00000
T50SOSEC34E		1.0 - 3.0	4.6	155.0	35.0	180	PA66HS	BK	1-2;4-7;25	126-00426
T50SOSAS-EC1.5-4TVE		1.5 - 4.0	4.6	162.5	35.0	180	PA66HIRHS	BK	1-2;4-5;25	126-00354

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for edges

2-piece fixing ties for edges

EdgeClip-Series, 0.5 - 2.5 mm, top fixing

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where adhesives will fail due to temperature problems. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry. These EdgeClips are specially designed for applications where space is limited such as in mirrors and headlights.

Features and benefits

- For flat edges
- For thin edges 0.5 - 2.5 mm
- Small housing for limited space
- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling



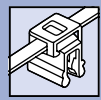
T30ROSEC0,5-2,5SPV for application on thin edges.

Material specifications: See Article-No. on our website.

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T30ROSEC0.5-2.5TP-SD		3.4	145.0	30.0	133	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-01543
T30ROSEC0.5-2.5TPVA		3.4	145.0	30.0	133	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-01542
T30ROSEC0.5-2.5TPVB		-	-	30.0	133	PA66HS PA66HIRHS	BK	2;4-5	156-03068
T30ROSEC0.5-2.5TV-SD		3.4	145.0	30.0	133	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-01545

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



2-piece fixing ties for edges

EdgeClip-Series, 0.5 - 2.5 mm, side fixing

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T30ROSEC0.5-2.5SP-SVA		3.4	145.0	30.0	133	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-01797
T30ROSEC0.5-2.5SP-SVB		3.4	145.0	30.0	133	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-01546

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNPSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



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Cable Ties and Fixings

Fixing products for edges

2-piece fixing ties for edges

EdgeClip-Series, 1.0 - 3.0 mm, top fixing

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry.

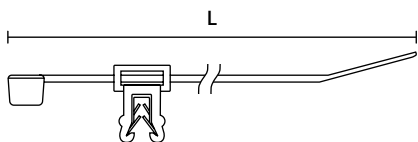
Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling
- EC9, EC10, EC21 and EC22 are for minimum bundle diameters of 1 mm
- For edges of 1 - 3 mm



Edge Clip 10 (EC10) fitted onto a plastic panel to hold a Ø 6 mm harness.

Material specifications: See Article-No. on our website.



Fixing Tie with Edge Clip

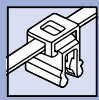
TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T30REC4A		3.6	148.0	33.0	135	PA66HS PA66HIRHS	BK	1-2;4-5;25	150-76090
T50ROSEC4A		4.6	200.0	45.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	150-76099
T50REC4A		4.6	202.0	45.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	150-76091
T50RDHEC4A		4.7	210.0	19.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-01721
T30REC4B		3.6	148.0	35.0	135	PA66HS PA66HIRHS	BK	1-2;4-5;25	150-76080
T18REC10SD		2.5	100.0	22.0	80	PA66HS PA66HIRHS	BK	1-2;4-5;25	155-38304
T18REC9SD		2.5	100.0	22.0	80	PA66HS PA66HIRHS	BK	1-2;4-5;25	155-37104
T50SOSEC9SD		4.6	150.0	31.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-00019

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)

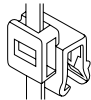
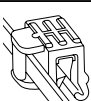


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2-piece fixing ties for edges

EdgeClip-Series, 1.0 - 3.0 mm, side fixing

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50ROSEC5A		4.6	200.0	45.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	150-40591
T18REC21		2.5	100.0	18.0	80	PA66W PA66HIRHS	BK	1-2;4-5;25	156-01231
T50ROSEC21		4.6	200.0	45.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-00010
T50ROSEC22		4.6	200.0	45.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-00011

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for edges

2-piece fixing ties for edges

EdgeClip-Series, 3.0 - 6.0 mm, top fixing

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry.

Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling
- For minimum bundle diameters of 1 mm
- For edges of 3 – 6 mm



Fixing Tie with EdgeClip for thick edges.

Material specifications: See Article-No. on our website.

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50SOSEC19		4.6	150.0	35.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-04601
T50SOSEC20		4.6	150.0	35.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-00016
T50ROSEC20		4.6	200.0	45.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-00020

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)

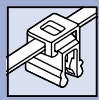
2-piece fixing ties for edges

EdgeClip series, 3.0 - 6.0 mm, side fixing

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50ROSEC23		4.6	200.0	45.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-00006
T50ROSEC24		4.6	200.0	45.0	225	PA66HS PA66HIRHS	BK	1-2;4-7;25	156-00007

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



2-piece fixing ties for edges

EdgeClip-Series, twistable

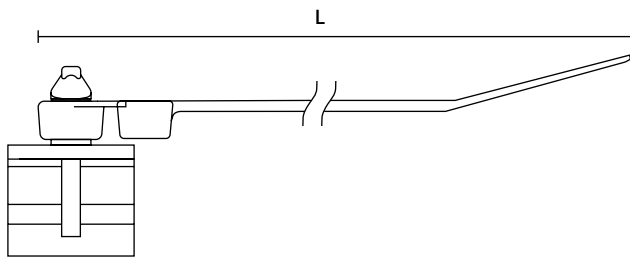
These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where adhesives will fail due to temperature problems. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry.

Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Easy to assemble by hand
- Cable tie head can be moved after bundling
- For edges of 1 – 2.5 mm or 1 – 3 mm
- Can be rotated to the desired position



EdgeClip CBTO50R, rotatable 90°.



CBT30MR

TYPE	Drawing	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
CBTO50R		1.0 - 3.0	4.6	202.0	47.0	225	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-01601
CBTOS50RSTUD5		1.0 - 3.0	4.6	202.0	47.0	225	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-00380

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Cable Ties and Fixings

Fixing products for edges

Fixing elements for tubes and harnesses, for edges

EdgeClip-Series

EdgeClips are used in the automotive industry and electrical industries and when it is impossible to drill holes or no other fixing points are available.

Features and benefits

- Releasable fixing elements with EdgeClip
- Low-vibration routing of bigger bundle diameters
- Clips to be pushed onto an edge
- To be closed single handed, a snap can be felt
- Bundles can be released at any time
- EC27: fixing element enables usage of smaller bundle diameter
- EC41: for parallel guidance of two bundles



EdgeClip cable and tube clips are suitable for the low-vibration routing of cables and tubes with larger bundle diameters.

Material specifications: See Article-No. on our website.

TYPE	Drawing	Panel Thickness	Attach to Ø	Material	Colour	Article-No.
EC27		1.0 - 3.0	15.0 - 22.0	PA66HIRHS	Black (BK)	151-00161
HCEC3.0SP-C		1.0 - 3.0	12.0 - 15.0	PA66HIRHS	Black (BK)	151-01863
EC1-3TL7OTP		1.0 - 3.0	6.5 - 8.5	PA66HIRHS	Black (BK)	151-02588
EC1-3C15		1.0 - 3.0	11.0	PA66HIRHS	Natural (NA)	151-03154

All dimensions in mm. Subject to technical changes.



2-piece fixing ties with pipe-clip, twistable 360°

LOC-series

The fasteners interconnect two different bundles of goods, of various size and type. The mobility of the fixing provides a secure grip and protects the cables or bundles, even in difficult conditions.

Features and benefits

- Inside serrated cable tie with closure clip
- Retaining collar protects of noises of rattle
- Fixing Clip offers full 360° rotation
- Routed cable can move in any direction in relation to the fixing point



Two piece Fixing Tie T50SMVCLOC10-14 is used if routed tubes need to be able to follow movement - in any direction in relation to the fixing point.

Material specifications: See Article-No. on our website.

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	Attach to Ø	N	Material	Colour	Article-No.
T50SMVCLOC20-25		12.0	210.0	25.0	20.0 - 25.0	225	PA66HIRHSUV	BK	156-01714
T50SMVCLOC10-14		12.0	210.0	14.0	10.0 - 14.0	225	PA66HS PA66HIRHSUV	BK	156-02383
T50SMVCLOC15-19		12.0	210.0	19.0	15.0 - 19.0	225	PA66HIRHSUV	BK	156-01690

All dimensions in mm. Subject to technical changes.



Cable Ties and Fixings

Fixing products for pipes and harnesses

2-piece fixing ties

with pipe clip and fir tree

In industrial environments where multiple cables are bundled at a single point, routed in different directions, and require rattle-free fixation under vibration.

Features and benefits

- Tool-free installation
- Pre-assembled 2-piece element for oval holes
- Parallel routing of cables, hoses, or harnesses
- Removable



T50SCTCFT6.

Material specifications: See Article-No. on our website.

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	Attach to Ø	N	Material	Colour	Tools	Article-No.
T50SCTCFT6		4.6	150.0	30.0	11.0 - 15.0	225	PA66HS PA66HIRHS	BK	1-2;4-5;25	156-00253

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 25=EVOcut. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes.

Just change the focus and you'll create something new.

Everyone has their own point of view. That's why you find different kinds of personalities at HellermannTyton. We create a vibrant working environment for the details that we then step up a level. Take our EdgeClips: cable routing on the cutting edge – no need for drilling or adhesives. Lateral thinking at its best.

www.HellermannTyton.com/EdgeClip

MADE FOR REAL



Heat shrinkable tubing 3:1 - Self extinguishing

TCN20 overexpanded

Mechanical and electrical protection applications for parts with high diameter variances. This fast shrinking tubing makes it suitable for high volume production.

Features and benefits

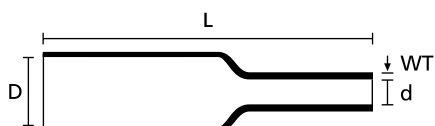
- Thin wall overexpanded polyolefin tubing
- Overexpanded tubes fit more applications (e.g. big cable lugs)
- Self extinguishing and low shrink temperature
- Highly flame-retardant, UL224 VW-1



TCN20 Overexpanded - reliable insulation with an enhanced shrink ratio.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+100 °C
Longitudinal Change After Shrinkage	+/-5%
Dielectric Strength	20 kV/mm
Flammability	UL 224 VW-1
Self extinguishing	Yes

RoHS



Heat Shrink Tubing 3:1

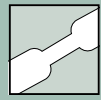


TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Reel Length	Colour	Article-No.
TCN20-2.4/0.8	2.4	0.8	0.40	300.0 m	300 m	Black (BK)	300-73130
TCN20-3.2/1.2	3.2	1.2	0.50	300.0 m	300 m	Black (BK)	300-73140
TCN20-4.8/1.6	4.8	1.6	0.50	300.0 m	300 m	Black (BK)	300-73150
TCN20-6.6/2.4	6.6	2.4	0.50	300.0 m	300 m	Black (BK)	300-73160
TCN20-9.5/3.2	9.5	3.2	0.60	100.0 m	100 m	Black (BK)	300-73170
TCN20-12.7/4.8	12.7	4.8	0.70	100.0 m	100 m	Black (BK)	300-73180
TCN20-19.0/6.4	19.0	6.4	0.70	60.0 m	60 m	Black (BK)	300-73190
TCN20-25.4/9.5	25.4	9.5	0.80	60.0 m	60 m	Black (BK)	300-73200
TCN20-38.0/12.7	38.0	12.7	0.90	30.0 m	30 m	Black (BK)	300-73210

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Heat shrinkable tubing 2:1 - flexible and coloured

HFT-A - self extinguishing

This high performance thin wall tubing is used extensively for electrical and mechanical protection. It is also well proven for sleeve marking to identify wiring circuits.

Features and benefits

- Flexible heat shrink tubing
- Fast shrinking, easy handling, good mechanical strength
- Wide range of colours
- Internal diameters up to 102 mm (4 inches)
- UL-224 ,CSA listed and VG approved



HFT-A conforms to major standards (VG) used in all Defence industries.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+135 °C
Longitudinal Change After Shrinkage	-5% max.
Dielectric Strength	21 kV/mm
Flammability	UL 224 VW-1
Self extinguishing	Yes

RoHS



Heat Shrink Tubing 2:1



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Designation as per VG-Norm	Article-No.
HFT-A-25.4/12.7	25.4	12.7	0.90	25 m	Green-Yellow (GNYE)	VG 95343 T05 A 010 N	305-25445

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Heat shrinkable tubing adhesive lined - 1.2 m lengths

TA42 - thin wall, 4:1 shrink ratio

The high expansion ratio makes it possible to repair most damaged cable jackets without removing connectors.

Features and benefits

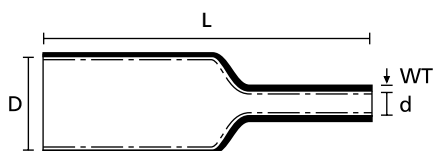
- Thin wall adhesive-lined heat shrink tubing
- Highly flame retardant
- Outer wall conforms to UL224
- High shrink ratio



TA32 and TA42 are UL224 listed adhesive lined tubing. Available in 3:1 and 4:1 shrink ratio.

MATERIAL	Polyolefin, cross-linked (PO-X)
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+110 °C
Dielectric Strength	20 kV/mm
Flammability	UL 224 VW-1
Flammable	No

RoHS



Heat Shrink Tubing 4:1 with adhesive

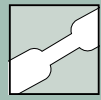


TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Shrink Ratio	Article-No.
TA42-4/1	4.0	1.0	1.00	1.2 m	Black (BK)	4:1	318-40400
TA42-8/2	8.0	2.0	1.20	1.2 m	Black (BK)	4:1	318-40800
TA42-12/3	12.0	3.0	1.40	1.2 m	Black (BK)	4:1	318-41200
TA42-16/4	16.0	4.0	1.80	1.2 m	Black (BK)	4:1	318-41600
TA42-24/6	24.0	6.0	2.20	1.2 m	Black (BK)	4:1	318-42400
TA42-32/8	32.0	8.0	2.50	1.2 m	Black (BK)	4:1	318-43200
TA42-52/13	52.0	13.0	2.55	1.2 m	Black (BK)	4:1	318-45200

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Heat shrinkable tubing adhesive lined

EPS-400 - 4:1 shrink ratio

Heatshrinkable tubing EPS seals and protects a wide variety of electrical applications like back end connector sealing, connector-to-cable transitions and splices.

Features and benefits

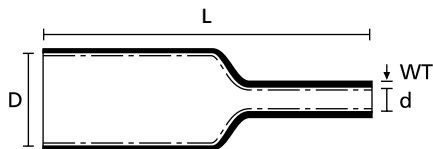
- Flexible, thin wall polyolefin heat shrink tubing
- With coextruded hot melt adhesive inner wall
- Protects against moisture
- Provides an environmental sealing of complex parts



EPS300 and EPS400 offer high shrink ratios and protection against humidity.

MATERIAL	Polyolefin, cross-linked (PO-X)
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+120 °C
Longitudinal Change After Shrinkage	-5% max.
Dielectric Strength	45 kV/mm
Self extinguishing	Yes

RoHS ✓



Heat Shrink Tubing 4:1 with adhesive

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Shrink Ratio	Article-No.
EPS-400-4/1	4.0	1.0	1.00	300 m	Black (BK)	4:1	341-04010
EPS-400-8/2	8.0	2.0	1.00	150 m	Black (BK)	4:1	341-08020
EPS-400-12/3	12.0	3.0	1.40	100 m	Black (BK)	4:1	341-12030
EPS-400-16/4	16.0	4.0	1.80	100 m	Black (BK)	4:1	341-16040
EPS-400-24/6	24.0	6.0	2.20	50 m	Black (BK)	4:1	341-24060
EPS-400-32/8	32.0	8.0	2.50	25 m	Black (BK)	4:1	341-32080

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



4:1 Heat shrink tubing - 1.2m lengths

SA47-LA - standard wall adhesive lined for perfect corrosion protection

SA47-LA is a semi-rigid halogen free polyolefin tubing with an inner liner of hot melt adhesive. It has excellent tensile strength and strain relief. The adhesive liner provides superb moisture protection. Ideal for electrical connections and splices in automobiles. Tubing is transparent and hot melt adhesive is black.

SA47-LA is specially designed with less adhesive for cable connections.

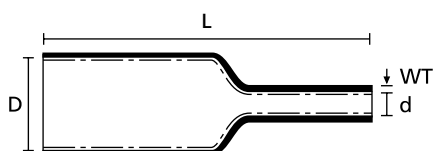
Features and benefits

- Standard wall polyolefin heat shrink tubing
- Industry leading corrosion protection
- Excellent tensile strength and strain relief
- Provides excellent moisture protection
- Tubing is clear and hot melt adhesive black
- Provides environmental sealing of complex parts
- Halogen free



SA47-LA - strongest thermoplastic adhesive.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	4:1
Operating Temperature	-40 °C to +125 °C
Min. Shrink Temperature	+130 °C
Melting Point	starting from +110 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	20 kV/mm
Flammability	FMVSS 302



Heat Shrink Tubing 4:1 with adhesive



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Article-No.
SA47-LA-5.75/1.25	5.75	1.25	1.10	1.2 m	Transparent (CL), Black (BK)	301-10020
SA47-LA-7.5/1.65	7.5	1.65	1.40	1.2 m	Transparent (CL), Black (BK)	301-10021
SA47-LA-11.0/2.4	11.0	2.4	1.80	1.2 m	Transparent (CL), Black (BK)	301-10022
SA47-LA-18.3/4.35	18.3	4.35	2.20	1.2 m	Transparent (CL), Black (BK)	301-10023

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



Non-Metallic Conduits

HG-LW PA6 Light Weight

Light weight corrugated flexible conduit for machine building, plant construction, control panels and public buildings.

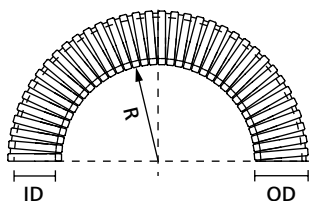
Features and benefits

- Light weight
- Very flexible and high fatigue life
- Small bending radius
- High impact strength and recovers if crushed
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Colour: black; grey on request



HelaGuard HG-LW is very light and flexibel.

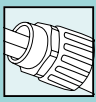
MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +120 °C
Operating Temperature Moving	-20 °C to +100 °C
Flammability	EN IEC 61386



HelaGuard non-metallic conduit

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
HG-LW10	10	7.5	10.0	6.5	15	18 g/m	50 m	Black (BK)	166-11200
HG-LW11	11	8.5	11.5	8.3	20	22 g/m	50 m	Black (BK)	166-11201
HG-LW13	13	10	13.0	10.0	25	24 g/m	50 m	Black (BK)	166-11202

All dimensions in mm. Subject to technical changes. Colour grey available on request. Other reel lengths available on request. Minimum Order Quantity (MOQ) may differ from package content.



Cable Protection Systems

Non-Metallic Conduit Systems

Non-metallic conduits

HG-SW PA6 Standard Weight

Standard weight corrugated flexible conduit for industrial applications, including machine building, plant construction, control panels, public buildings.

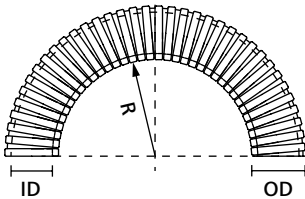
Features and benefits

- Very flexible and high fatigue life
- Very abrasion resistant
- High impact strength, recovers if crushed
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Self-extinguishing according to UL94 V2
- Colour: black, grey on request



HelaGuard HG-SW for industrial applications.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +120 °C
Operating Temperature Moving	-20 °C to +100 °C
Flammability	UL 94 V2



HelaGuard non-metallic conduit

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
HG-SW10	10	7.5	10.0	6.3	15	19 g/m	50 m	Black (BK)	166-11100
HG-SW11	11	8.5	11.5	8.2	20	22 g/m	50 m	Black (BK)	166-11101
HG-SW13	13	10	13.0	9.8	25	28 g/m	50 m	Black (BK)	166-11102

All dimensions in mm. Subject to technical changes. Colour grey available on request. Other reel lengths available on request. Minimum Order Quantity (MOQ) may differ from package content.



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Non-Metallic Conduits

HG-DC Double Slit

Double slit corrugated conduit for retrofitting is used in control panels, machine building, plant construction.

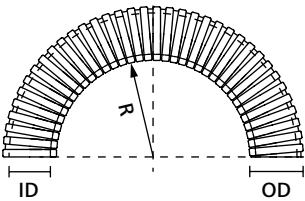
Features and benefits

- Can be opened and closed repeatedly
- Cables can be inserted laterally
- Abrasion resistant
- Free of halogen, sulphur and phosphorus
- Colour: black



HelaGuard HG-DC double slit conduit.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +120 °C
Flammability	UL 94 HB



HelaGuard non-metallic conduit

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
HG-DC11	11	8.5	11.5	5.7	70	37 g/m	50 m	Black (BK)	166-11800
HG-DC13	13	10	12.9	7.9	75	46 g/m	50 m	Black (BK)	166-11801
HG-DC16	16	12	16.2	10.0	100	72 g/m	50 m	Black (BK)	166-11802
HG-DC21	21	17	21.0	13.7	120	110 g/m	50 m	Black (BK)	166-11803
HG-DC28	28.4	23	28.4	19.8	170	166 g/m	50 m	Black (BK)	166-11804
HG-DC34	34.2	29	34.2	25.0	180	180 g/m	25 m	Black (BK)	166-11805

All dimensions in mm. Subject to technical changes. Other reel lengths available on request. Minimum Order Quantity (MOQ) may differ from package content.



Cable Protection Systems

Protective Tubing and Spiral Binding

Helawrap cable cover

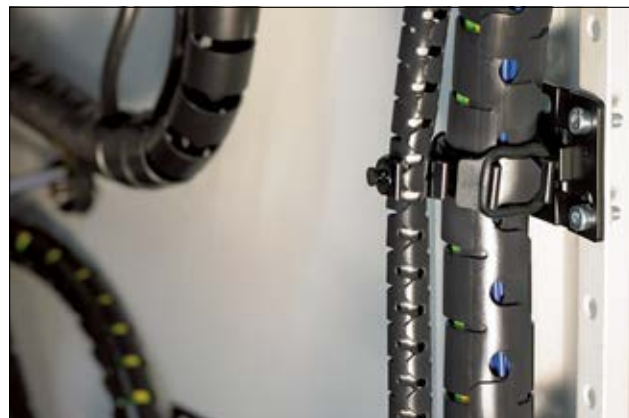
HWPP for industrial applications

Helawrap is used to bundle and protect cables and wires in the electrical industry, panel building, machine building and many other industrial applications. Helawrap is the time-saving solution for industrial applications.

Features and benefits

- Ideal solution for bundling, protecting and fixing cables
- Quick and effortless to apply
- Good abrasion protection
- Special profile enables branching off cable at any point
- Can be removed and reapplied often
- Available in several colours and sizes
- Handy HAT applicator tool included

More variants and dimensions are available on request. Please contact us for more information.



Protecting and fixing cables with the Helawrap cable cover and accessory set, for instance in wiring cabinets.



Insert one or more cables into the insertion slot of the HAT applicator tool.



Place the HAT applicator tool in one end of the Helawrap cable cover.



Simply slide the HAT applicator tool through the Helawrap cover.

MATERIAL	Polypropylene (PP)
Operating Temperature	-60 °C to +110 °C, intermittent +140 °C
Flammability	UL 94 HB



TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPP8	9.0	Black (BK)	25 m	HAT8	161-64101
HWPP16	16.0	Black (BK)	25 m	HAT16	161-64201
HWPP20	21.0	Black (BK)	25 m	HAT20	161-64301

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

ECE R-118

Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Self-closing polyester sleeving

Helagaine Twist-In

Helagaine Twist-In is used to bundle and protect cables and hoses in machine-building and automation, electrical installations, automobile and truck manufacturing. HelaGain Twist-In is also available in practical 2 m and 5 m lengths for use in the home or workplace.

Features and benefits

- Self-closing sleeve made of sturdy polyester
- Provides very good protection against abrasion
- Quick and easy installation and removal
- Ideal for retro-fitting
- Allows for inspection and maintenance



Helagaine Twist-In enables easy access to cables and wires for assembly, inspection and maintenance.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +125 °C
Melting Point	+255 °C
Flammability	FMVSS 302

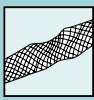


TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
Twist-In 05	4.0	5.0	Black (BK)	150 m	45	170-01000
Twist-In 08	5.0	8.0	Black (BK)	100 m	45	170-01001
Twist-In 13	10.0	13.0	Black (BK)	50 m	45	170-01002
Twist-In 19	16.0	19.0	Black (BK)	25 m	45	170-01004
Twist-In 25	19.0	25.0	Black (BK)	25 m	45	170-01005
Twist-In 29	25.0	29.0	Black (BK)	15 m	45	170-01006

Recommended Tools: 45=HSG0. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.
All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



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Self-closing, flame-retardant polyester sleeving

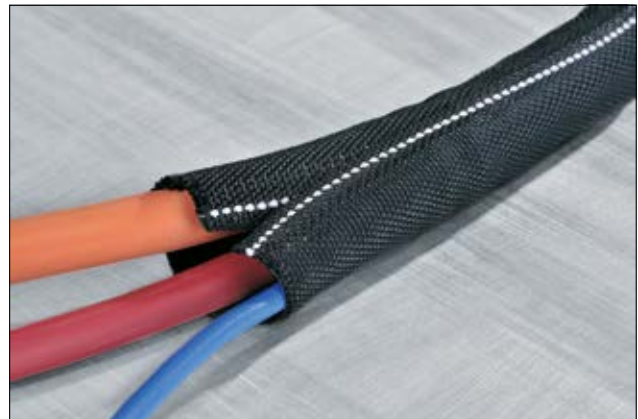
Helagaine Twist-In-FR

Helagaine Twist-In-FR is used wherever fire protection is essential, such as in the railway, aerospace and shipbuilding industries.

Features and benefits

- Self-closing sleeve made from polyester
- Optimal fire protection
- Certified conformity with railway standard EN45545-2
- Quick and easy installation and removal
- Ideal for retro-fitting
- Allows access to bundle for assembly, inspection and maintenance

Cut lengths available on request. Please contact us!



Helagaine Twist-In-FR is used wherever fire safety is important.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +125 °C
Melting Point	+240 °C
Flammability	FMVSS 302, UL 1441 VW-1
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

RoHS ✓

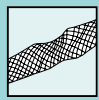
TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
Twist-In-FR 05	4.0	5.0	Black with White Identification Yarn (BKIDWH)	150 m	45	170-01100
Twist-In-FR 08	5.0	8.0	Black with White Identification Yarn (BKIDWH)	100 m	45	170-01101

Recommended Tools: 45=HSG0. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



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Standard polyester braided sleeving

Helagaine HEGP

Helagaine HEGP braided sleeving provides abrasion protection in the automotive industry, in machine building, in panel building and in electrical appliances.

Features and benefits

- Made of sturdy polyester
- Highly flexible
- High abrasion resistance
- Very high surface coverage



Helagaine HEGP braided sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Melting Point	+250 °C
Flammability	UL 94 V2, FMVSS 302



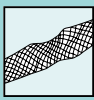
TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGP03	1.0	5.0	Black (BK)	200 m	45	170-10300
HEGP04	2.0	7.0	Black (BK)	200 m	45	170-10400

Recommended Tools: 45=HSG0. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.

EN 45545-2 **ECE R-118**

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High-expansion polyester braided sleeving

Helagaine HEGPX

Helagaine HEGPX is used whenever a higher expansion rate is required. HEGPX is particularly suitable for use in the automotive industry, panel building and in electrical appliances.

Features and benefits

- Made of sturdy polyester
- Highly flexible
- High rate of expansion
- Easy to apply over irregular shapes
- Good abrasion resistance



HEGPX - Expandable abrasion protection sleeve.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Melting Point	+250 °C
Flammability	UL 94 V2, FMVSS 302



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPX06	3.0	9.0	Black (BK)	200 m	45	170-00060
HEGPX09	5.0	16.0	Black (BK)	100 m	45	170-00090

Recommended Tools: 45=HSG0. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

All dimensions in mm. Subject to technical changes. Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.

EN 45545-2



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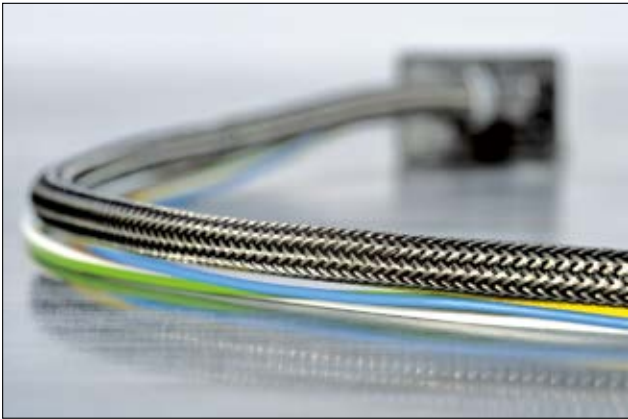
Braided sleeving for electromagnetic protection

Helagaine HEGEMIP

Helagaine HEGEMIP braided sleeving is used for highly sensitive electronics, such as in machines, military equipment and automobiles.

Features and benefits

- Excellent electromagnetic protection
- Extremely flexible, expandable and easy to apply
- No kinks or ruptures even when bent at sharp angles
- Superior abrasion protection
- Particularly suitable for applications with restricted space or requiring movement
- Inner disposable tube protects sleeve from deformation and allows for easy insertion of cables
- Fulfils the requirements of IEC CISPR25 for radio disturbances in vehicles, boats and engines



HEGEMIP braided sleeving: reliable protection from electromagnetic radiation.

MATERIAL	Polyester, halogen free (PET), Tin-plated copper (SNCU)
Operating Temperature	-40 °C to +150 °C
EMI requirements	10 kHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
Flammability	UL 94 V2, FMVSS 302



TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP04	4.0	4.0	6.0	Metal (ML), Black (BK)	22 g/m	100 m	173-00400
HEGEMIP06	6.0	5.0	10.0	Metal (ML), Black (BK)	29 g/m	100 m	173-00600
HEGEMIP08	8.0	8.0	11.0	Metal (ML), Black (BK)	36 g/m	100 m	173-00800

All dimensions in mm. Subject to technical changes. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.



Shrinkable markers "Ladder Style", thermal transfer

TULT DS – 3:1 Military and Electronics "Ladder Style"

TULT DS is a UL recognised 3:1 heat shrink marker material pre-cut and formatted into a convenient "ladder" system. This pre-cut format not only allows printing on both sides of the marker but the user can also easily choose and pick each required marker. TULT's polyolefin compound has good mechanical strength and resistance to organic solvents and chemicals. The surface of the tubing has been especially prepared so that print performance is excellent at all times using HellermannTyton's printer range.

Features and benefits

- Shrink ratio 3:1
- 50 mm, 25 mm and 16 mm pre-cut marker options as standard, other lengths available on request
- Available in white or yellow
- Good mechanical strength and resistance to organic solvents and chemicals
- Highly flexible
- Delivery in convenient storage boxes



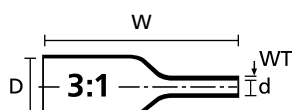
TULT DS – shrinkable markers with good mechanical strength for a wide range of applications.



Shrinkable markers TULT DS for military and electronics industry.

MATERIAL	Polyolefin, cross-linked (PO-X)
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+90 °C
Shrink Ratio	3:1
Recommended Ribbon Type	TTDTHOUT
Thermal Transfer Printer	TT431, TT4030DS, TT4030

RoHS

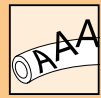


TYPE	Supplied Ø D min.	Recov. Ø d max.	Width (W)	Wall (WT)	Pack Cont.	Colour	Article-No.
TULT2.4-0.8DS-2x25WH	2.4	0.8	25.0	0.53	2000 pcs.	White (WH)	553-71002
TULT2.4-0.8DS-2x25YE	2.4	0.8	25.0	0.53	2000 pcs.	Yellow (YE)	553-71003

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



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Identification tags for cable bundle, thermal transfer

TIPTAG PU – UV-stabilised Tiptags, Polyurethane

The Tiptag PU cable markers consist of a robust and flexible polyurethane material. It is especially suited for harsh environments where the material is exposed to chemical, fluids or abrasion. Tiptag PU's are presented in a special perforated format which include fastening slots for easy fitting with cable ties. They are also suitable for retrofit purposes.

Print from the reel with HellermannTyton's premium range of thermal transfer printers.

A special ribbon has been developed for Tiptag PU to create a "tattoo" effect so that the marking cannot be rubbed off and is particularly durable and resistant to harsh abrasion.

Features and benefits

- Durable and robust polyurethane material
- For large cable bundles and wires
- Flame retardant
- Weather resistant
- Abrasion resistant
- Good resistance to chemicals
- Available in white and yellow as standard
- Perforated format with fastening slots for cable ties

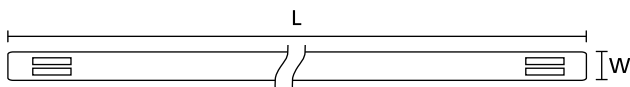


TIPTAG PU – printed mark has a tattoo-like permanency.



TIPTAG PU - Identification markers suitable for tough conditions.

MATERIAL	Polyurethane (PUR)
Operating Temperature	-65 °C to +120 °C, intermittent +150 °C
Flammability	UL 94 V0 (3 mm)
UV-Stabilised	Yes
Recommended Ribbon Type	TTRC+
Thermal Transfer Printer	TT431, TT4030



TYPE	Length (L)	Width (W)	Pack Cont.	Colour	Article-No.
TTAGPU11X65WH	65.0	11.0	190 pcs.	White (WH)	556-25012
TTAGPU11X65YE	65.0	11.0	190 pcs.	Yellow (YE)	556-25019

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.



Identification tags for cable bundle, thermal transfer

TIPTAG HF – Rail Limited Fire Hazard, Halogen free

The Tiptag HF cable markers have been designed to identify larger wires and cable bundles not only in the electronics and general cabling environments but also in the railway industry. Tiptag HF is halogen free and its material properties show low smoke propagation, density and toxicity. Tiptags are presented in a special perforated format which include fastening slots for easy fitting with cable ties. They are also suitable for retrofit purposes. Print from the reel with HellermannTyton's premium range of thermal transfer printers and ribbons for optimum print quality and longevity.

Features and benefits

- Ideal for marking larger wire and cable bundles
- Halogen free
- Low smoke propagation and toxicity
- Perforated format that includes fastening slots for cable ties
- Available in various colours



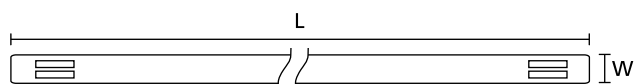
TIPTAG - high performance cable bundle marking.

MATERIAL	Polyolefin (PO)
Operating Temperature	-40 °C to +90 °C, (+160 °C, for 200 h)
Recommended Ribbon Type	TTDTHOUT
Thermal Transfer Printer	TT431, TT4030
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

LFH ✓

RoHS ✓

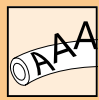


TYPE	Length (L)	Width (W)	Pack Cont.	Colour	Article-No.
TIPTAG11X65BU	65.0	11.0	190 pcs.	Blue (BU)	556-20066
TIPTAG11X65YE	65.0	11.0	190 pcs.	Yellow (YE)	556-20064

All dimensions in mm. Subject to technical changes.

EN 45545-2

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Self-laminating and flag labels, thermal transfer

Helatag 323, high temperature

This self-laminating label consists of a printable area with a protective laminate ensure the printed text is shielded from negative environmental influences - such as humidity, dirt, debris and mechanical abrasion. It is ideally suited for wire and cable marking in both high temperature and outside environments, particular used in industry as well as military technology.

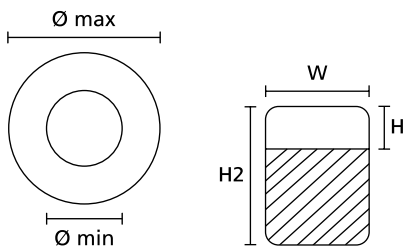
Features and benefits

- High temperature self-laminating labels with an inscription field
- Extremely scratch and chemical resistant
- Protective laminating foil ensures optimal protection against humidity, dirt, debris, and mechanical abrasion
- Survives 5 years external weathering in central European climate



Easy marking of flexible, semi-rigid and rigid cables and wires.

MATERIAL	Type 323, Polyvinylidene Fluoride (323)
Operating Temperature	-40 °C to +140 °C
Curing Temperature	from +10 °C
Adhesive	Acrylic
Thickness of Foil	25 µm
Chem. Material Properties	Excellent resistance against water, weather influence and solvents based on petroleum.
UV-Stabilised	Yes
Recommended Ribbon Type	TT932DOUT
Thermal Transfer Printer	TT431, TT4030



TYPE	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Height (H2)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG22TD3	3.5	7.6	25.4	12.7	36.5	82.0	3 pcs.	2500 pcs.	White (WH), Transparent (CL)	596-22320
TAG9TD3	5.5	12.1	25.4	19.1	57.1	82.0	3 pcs.	2500 pcs.	White (WH), Transparent (CL)	596-09320
TAG1TD2	8.5	18.2	48.2	19.1	79.2	101.6	2 pcs.	1000 pcs.	White (WH), Transparent (CL)	596-01320

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Type label identification, thermal transfer

Helatag 1204

This silver-matt label is scratch-resistant and is ideal for usage as identification or name plate in industrial environments. The high temperature range suits a wide range of applications on flat surfaces. The adhesive is also suitable for critical surfaces like plastic and paint. Designing and printing labels is simple and users can quickly print out professional labels in a matter of moments when using TagPrint Pro labelling software.

Features and benefits

- Replacement option for aluminium plates
- For applications on flat surfaces
- Allows the identification on critical surfaces, e.g. paints and plastic variants
- Print labels with customer unique references
- Use text, graphics and barcodes as required



Professional type plate on a heating unit.

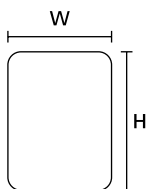


Type label Helatag 1204

MATERIAL	Type 1204, Polyester (1204)
Operating Temperature	-40 °C to +150 °C
Curing Temperature	from 0 °C
Adhesive	Acrylic
Thickness of Foil	53 µm
Chem. Material Properties	Excellent resistance to water, alcohol, most oils, greases, fuel, aliphatic solvents, weak acids, salts and alkalis.
Recommended Ribbon Type	TT822OUT
Thermal Transfer Printer	TT431, TT4030

HF✓

RoHS✓

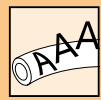


TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG34TD3	25.4	9.5	85.1	3 pcs.	7500 pcs.	Silver-matt (MTSR)	596-34120

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



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Inventory and Name Plates Labels

Thermal Transfer Labels

The use of our specially formulated adhesive labels printed on thermal transfer printers give the highest quality print clarity. The range of materials are complemented by ribbons developed to suit the needs of most users.

The production of labels is very simple. All that is needed is the required label to be selected from our industry leading software TagPrint Pro.

Features and benefits

- Adhesive labels made of vinyl, white gloss
- Specially tailored to the sizes of IT marking ties and IMP tag range
- Suitable for permanent marking of components and devices on different surfaces
- Adheres to rounded surfaces
- Excellent print performance using TT822OUT ribbon
- Print with TT4000+, XXXNEW for best results
- Easy label design with TagPrint Pro2 (version 3 coming soon)



MATERIAL	Polyester (PET)
Operating Temperature	-40 °C to +149 °C
Curing Temperature	+10 °C
Adhesive	Acrylate with base of acrylic foam

RoHS ✓

TYPE	Colour	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Article-No.
NPLH46X46YE30.5	Yellow (YE)	45.7	50.8	1	500 pcs.	596-00400

All dimensions in mm. Subject to technical changes.



Application Tooling

Automatic Cable Tying System

Automatic bundling up to Ø 20 mm

Autotool CPK hybrid

The Autotool CPK hybrid T18RA offers full flexibility for automated cable tying. Choose your option: Cordless operation with rechargeable batteries, corded with main power via power pack or a mixture of both – When working on several projects, at different locations or in tight spaces without power supply.

The CPK hybrid has been developed to: Speed up bundling processes, make the production more consistent and efficient and simplify the operation and user-friendly ergonomics. It offers a display for the settings and presets, user information and the software "HT Data Management CPK".

The CPK hybrid is ideally suited for handling high volume applications – With either the Bench mount kit CPK or the Overhead suspension CPK, the CPK hybrid is suitable for both stationary and flexible applications.

Features and benefits

- Cable tying system operated electrically via Power supply (Power pack CPK – Input: 100-240 V a.c., 50/60 Hz; Output: 25.2 V d.c., max. 150 W) or use with 18V 2,0 Ah quick rechargeable Li-Ion Battery (8.000 bindings can be applied with a fully charged battery)
- Well established cooperation with metabo for battery and charger
- Removable handle for space-saving integration into fully automated production lines (Power pack CPK with control box necessary)
- HT Data Management CPK software (included for extensive data evaluation and export function for manufacturing data, further service functions and consistent documentation of every binding process)
- Smart Cable for updating the tool without Power pack
- Bandoliers of 50 cable ties as well as reels of 3,500 cable ties can be used
- Bench mount kit CPK for stationary use or Overhead suspension CPK for flexible use



Battery-operated Autotool CPK hybrid applying cable ties from bandolier.



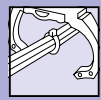
Bench mount kit CPK with foot pedal (also shown Autotool CPK hybrid, Power pack CPK and T18RA3500).



Overhead suspension CPK with Autotool CPK hybrid battery operated (also shown T18RA3500).

TYPE	Description	Weight	Article-No.
Autotool_CPK_hybrid	Autotool CPK hybrid T18RA	1.813 kg	106-60000
Autotool_CPK_hybrid_Battery_Set	CPK hybrid Battery Set	3.184 kg	106-66000
Bench mount kit CPK	Bench mount kit CPK	10.1 kg	106-00040
Overhead suspension CPK	Overhead suspension CPK	3.88 kg	106-00050
Power pack CPK	Power pack CPK	1.6 kg	106-00100
Power pack CPK with control box	Power pack CPK with control box	1.478 kg	106-00110
SP_CAS_Battery_18V_2Ah	CAS Battery 18V 2Ah	0.396 kg	106-06020
SP_CAS_Battery_Charger	CAS Battery Charger	0.547 kg	106-06021
NP CPK smart cable	CPK smart cable	0.091 kg	123-90142

Subject to technical changes.



Cut-off-free automatic bundling up to Ø 100 mm

Autotool System ATS flex

The Autotool System ATS flex is an automated and electric cable tying system. It has been developed to speed up bundling processes and operates cut-off-free.

The advantage of three quick-changeable jaw sizes allows the Autotool System ATS flex to adapt perfectly to different bundle diameters up to Ø 100 mm.

With either the Bench mount kit ATS or the Overhead suspension ATS, the Autotool System ATS flex is suitable for both stationary and flexible applications. The Autotool System ATS flex can also be integrated into fully automated production lines.

Custom designed jaws are available to enable bundling of foot parts on production lines.



Autotool ATS flex on the harness board (also shown: Overhead suspension ATS).

Features and benefits

- The Autotool System ATS flex is an automated and electric cable tying system. It has been developed to speed up bundling processes and operates cut-off-free.
- The advantage of three quick-changeable jaw sizes allows the Autotool System ATS flex to adapt perfectly to different bundle diameters up to Ø 100 mm.
- With either the Bench mount kit ATS or the Overhead suspension ATS, the Autotool System ATS flex is suitable for both stationary and flexible applications. The Autotool System ATS flex can also be integrated into fully automated production lines.
- Custom designed jaws are available to enable bundling of foot parts on production lines.



Bench mount kit ATS (also shown: Autotool System ATS flex).



Overhead suspension ATS (also shown: Autotool System ATS flex and consumables).

TYPE	Description	Weight	Article-No.
ATS_flex	Autotool System ATS flex	2.443 kg	102-60000
Bench_mount_kit_automatic_ATS	Bench mount kit automatic ATS	17.0 kg	102-00042
Bench_mount_kit_horizontal_ATS	Bench mount kit horizontal ATS	14.0 kg	102-00041
Bench_mount_kit_ATS	Bench mount kit movable ATS	25.3 kg	102-00040
Overhead_suspension_ATS	Overhead suspension ATS	11.0 kg	102-00050
Power_pack_ATS_flex_24V	Power pack ATS flex	1.034 kg	102-00150

All dimensions in mm. Subject to technical changes.



Application Tooling

Automatic Cable Tying System

Cut-off-free automatic bundling up to Ø 100 mm

Cable ties for Autotool System ATS

The outside serrated strap is perfectly suitable for sensitive surfaces and can be used for bundling and fixing of cables, pipes and hoses, as well as for bag sealing.

The materials are particularly appropriate for high volume bundling applications in cable assembly, automotive, industrial and packaging applications.

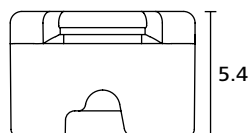
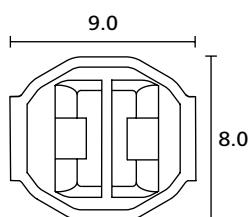
Features and benefits

- Innovative two-piece consumables: closure and strap
- Outside serrated strap protects the bundle
- Available on reels of 500 m strap and 5,000 pcs. closures

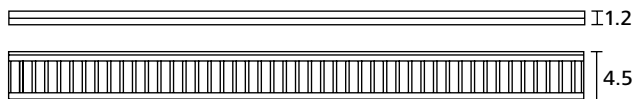


Closures and strap for Autotool System ATS.

MATERIAL	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV)	Polyamide 6.6, heat and UV-stabilised (PA66HSUV)	
Operating Temperature	-40 °C to +95 °C	-40 °C to +105 °C	-40 °C to +105 °C, (+145 °C, 500 h)
Flammability	UL 94 HB	UL 94 V2	



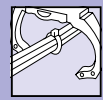
Closure ATS



Strap

TYPE	Description	Bundle Ø max.	N	Colour	Material	Pack Cont.	Article-No.
Closures_Black_ATS	Closures Black ATS	100.0	225	Black (BK)	PA66HSUV	5000 pcs.	102-66210
Closures_Natural_ATS	Closures Natural ATS	100.0	225	Natural (NA)	PA66HSUV	5000 pcs.	102-66209
Strap_Black_ATS	Strap Black ATS	100.0	225	Black (BK)	PA66HIRHSUV	500 m	102-66110
Strap_Natural_ATS	Strap Natural ATS	100.0	225	Natural (NA)	PA66HIRHSUV	500 m	102-66109

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. N = Minimum Loop Tensile Strength for Cable Ties (newton)



Automatic Cable Tying Systems

Cable ties for Autotool CPK hybrid

The inside-serrated cable ties are designed for use specifically in the automatic cable tying systems. The Autotool CPK hybrid is ideally suited for handling high volumes applications in wire harness facilities, automotive and industrial companies as wells as the packaging sector.

Features and benefits

- Available in bandoliers of 50 cable ties or reels of 3,500 cable ties
- Repetitive tension on the bundles



Cable ties for Autotool CPK hybrid.

MATERIAL	Polyamide 6.6, heat and UV-resistant (PA66HSW)	Polyamide 4.6 (PA46)
Operating Temperature	-40 °C to +105 °C, (+145 °C, 500 h)	-40 °C to +150 °C, (+195 °C, 500 h)
Flammability	UL 94 V2	

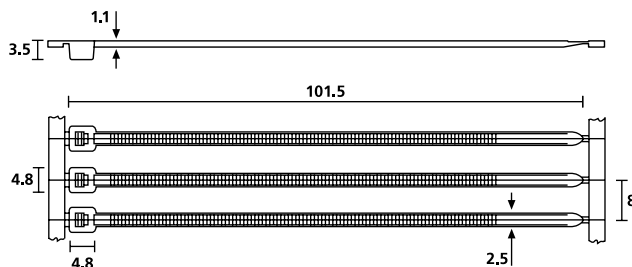
HF ✓

RoHS ✓

HF ✓

LFH ✓

RoHS ✓



Bandolier T18RA

TYPE	Bundle Ø max.	N	Colour	Material	Pack Cont.	Article-No.
T18RA3500	20.0	80	Black (BK)	PA66HSW	3500 pcs.	120-50010
	20.0	80	Natural (NA)	PA46	3500 pcs.	120-46009

All dimensions in mm. Subject to technical changes.



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Manual tensioning tool plastic housing

EVO7i up to 4.8 mm strap width

HellermannTyton's EVO7i industrial-grade, mechanical hand tool is ergonomically designed to reduce the risks of repetitive stress injuries to operators while simultaneously increasing productivity. The EVO7i Tension/Lock/Cut Technology delivers performance, safety and comfort for operators. Calibrated tensioning assures consistent wire-bundle tension before flush cut-off. Available in a standard grip span (EVO7i) or short grip span (EVO7iSP), for smaller hands. Additional accessories are available.

Features and benefits

- Ergonomic, slip-proof handle for a comfortable and secure grip
- Extremely low-maintenance
- Fast and precise application with minimum effort (TLC mechanism)
- Convenient and simple tension adjustment
- Extended, slim nose for use in narrow spaces
- Housing made of resilient and lightweight glass fibre-reinforced polyester
- Standard grip span (90 mm) and short grip span (80 mm) available



The EVO7i: Maximum performance with minimum effort.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
EVO7i	4.8	1.5	0.236 kg	110-77001

All dimensions in mm. Subject to technical changes.



Manual tensioning tool plastic housing

EVO9i up to 13.5 mm strap width

HellermannTyton's EVO9i industrial-grade, mechanical hand tool is ergonomically designed to reduce the risks of repetitive stress injuries to operators while simultaneously increasing productivity. The EVO9i Tension/Lock/Cut Technology delivers performance, safety and comfort for operators. Calibrated tensioning assures consistent wire-bundle tension before flush cut-off. Available in a standard grip span (EVO9i) or short grip span (EVO9iSP) for smaller hands. The EVO9iHT is the "high tension" version of the EVO9i family. Additional accessories are available.

Features and benefits

- Ergonomic, slip-proof handle for a comfortable and secure grip
- Extremely low-maintenance
- Fast and precise application with minimum effort (TLC mechanism)
- Convenient and simple tension adjustment
- Housing made of resilient and lightweight glass fibre-reinforced polyester
- Standard grip span (90 mm) and short grip span (80 mm) available
- EVO9iHT for high tension applications
- EVO9SG is a modified EVO9 tool that is suitable for the application of Soft Grip ties



Manual tensioning tool EVO9i.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
EVO9i	13.5	2.0	0.369 kg	110-88001

All dimensions in mm. Subject to technical changes.



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