

HellermannTyton



**Compliant cable management –
from rolling stock to infrastructure**

MADE FOR REAL[®]

MADE FOR REAL

Built for reliability. Backed by expertise.

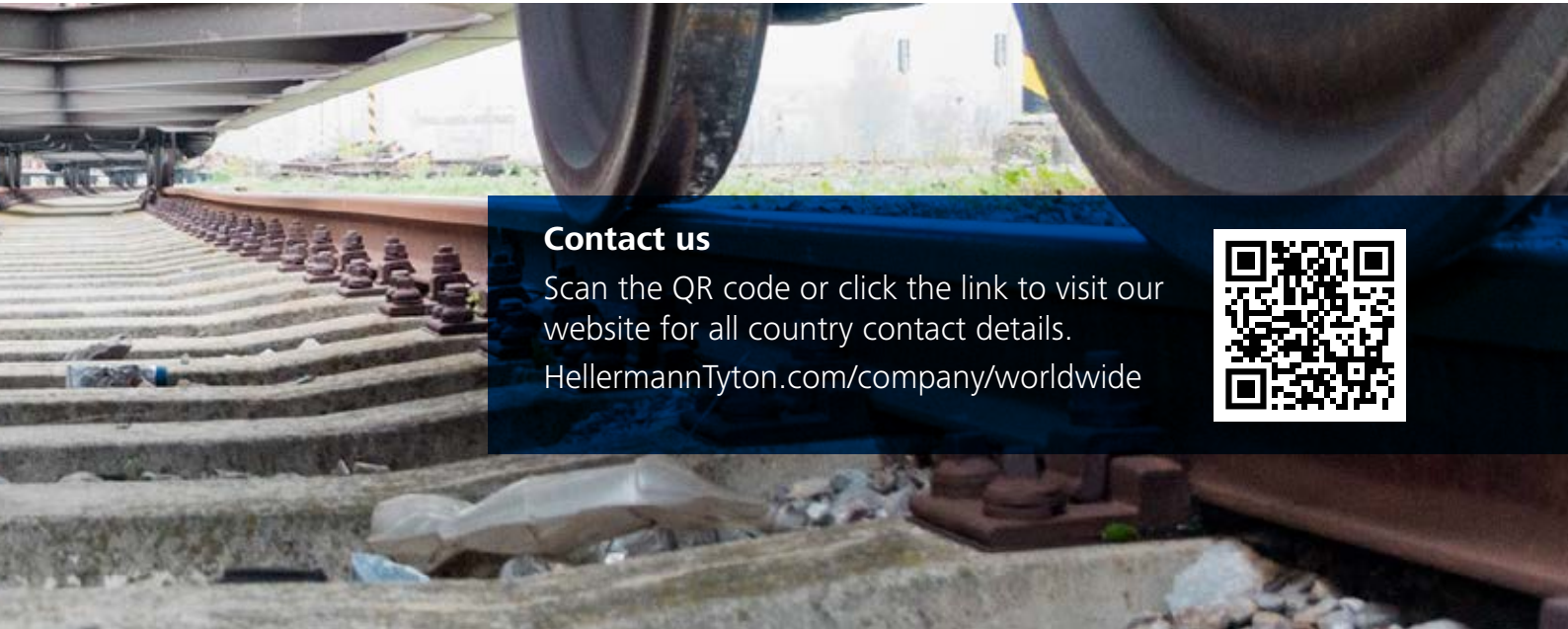
Performance without compromise

HellermannTyton is a **leading partner for cable and wire bundling, fastening, identification, protection and installation in rail environments**. Our portfolio currently includes over 75,000 products, and if the right solution is not available, we will develop it with you.

Whether you require **standard products or application-specific solutions**, as an IRIS-certified development partner, we can help to simplify processes and optimise performance throughout your project lifecycle. From the initial concept to series production, we support you with technical expertise, industry know-how, and close collaboration.

We operate in over **40 countries, 19 production sites and 13 development centres worldwide**, we are always close to your business and ready to support your needs.





Contact us

Scan the QR code or click the link to visit our website for all country contact details.

HellermannTyton.com/company/worldwide



Globally present, locally committed

Our local specialists provide **on-site support** and collaborate closely with customers to develop solutions for complex application requirements.

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EN 45545-2

Fire safety and compliance in rail vehicles

EN 45545 is the European standard for fire protection in railway vehicles. It sets out strict requirements for the fire behaviour of materials and components, including their self-extinguishing properties, smoke density, and smoke toxicity. The objective is clear: to limit the spread of fires and reduce risks to passengers and staff. For cable management components such as those supplied by HellermannTyton, the relevant requirements are defined in EN 45545-2.

Within the standard, products are classified according to their installation location – inside (R22) or outside (R23) the vehicle – and evaluated against different hazard levels (HL1 to HL3), depending on the operating environment. While EN 45545-2 also includes requirement sets such as R24, this classification is based primarily on the Oxygen Index (LOI) test and is generally considered a fallback option when compliance with the more comprehensive R22 or R23 requirements is not achievable. HL3 is the most stringent hazard level and indicates the level at which materials behave in a way that gives rail passengers the greatest chance of orientating themselves and avoiding suffocation from toxic fumes in the event of a fire.

To meet HL3 requirements, a tested material's oxygen index must be above 32 percent, its smoke density must be 300DS or lower, and its smoke toxicity index must be below 0.75 CIT NLP.

CATEGORIES	Test method	Parameter and unit	Max or Min	Level		
				HL1	HL2	HL3
R22	EN ISO 4589-2	Oxygen index %	Min	28	28	32
	ISO 5659-2: 25 kW/m ²	Ds max. (smoke opacity)	Max	600	300	150
	NF X 70-100-1 & -2, 600 °C	CIT (toxicity)	Max	1.2	0.9	0.75
R23	EN ISO 4589-2	Oxygen index %	Min	28	28	32
	ISO 5659-2: 25 kW/m ²	Ds max. (smoke opacity)	Max	-	600	300
	NF X 70-100-1 & -2, 600 °C	CIT (toxicity)	Max	-	1.8	1.5
R24	EN ISO 4589-2	Oxygen index %	Min	28	28	32



Why certification matters, even for small components

As HellermannTyton products are components used within assemblies rather than complete systems, compliance is generally assessed according to the following: Section 4.5, 'Non-listed products'. These are typically assessed according to R22 and R23.

The standard allows the use of non-certified combustible products under clearly defined conditions regarding quantity, weight, and installation position within the vehicle. Many individual cable management products could, in theory, be installed without EN 45545-2 compliance.

However, these allowances are based on the total combustible mass of all non-certified components within a group, rather than on individual items. In practice, it is difficult to guarantee reliable compliance at product level, especially when components from multiple suppliers are combined. Consequently, relying on exemptions introduces uncertainty into system design and approval processes.

Our approach is to ensure compliance independently

To eliminate any uncertainty, HellermannTyton products are designed and tested to meet EN 45545-2 requirements, regardless of how they are grouped. This means **compliance with R22 (interior) and R23 (exterior) requirements, qualification at HL2 and HL3 hazard levels, and verified fire performance** in line with defined test parameters for smoke density, toxicity and flame behaviour.

By choosing certified components, you can reduce the complexity of system approval, avoid dependency on grouping calculations, and ensure a higher level of safety across the entire installation.

In short, even small components play a critical role, and certified products provide reliable and predictable performance.

MADE FOR REAL IRIS Certification

Meeting industry standards with confidence



Stringent safety legislation is crucial for marketability in the rail industry. International certification is therefore essential. HellermannTyton has already firmly embedded the IRIS (International Railway Industry Standard) in its procurement guidelines.

As a long-standing manufacturer for the rail industry, we meet all the necessary requirements and can tailor our services to the needs of railway suppliers. In particular, the harmonious interplay between project management, configuration management and obsolescence management boosts the safety and efficiency of your operations.

HellermannTyton offers a wide range of fixing solutions for the railway business. We not only offer different raw materials. We also offer a variety of designs that serve the special needs of the railway market.

Available products and designs:

- OS-Series cable ties with smooth surface to the bundle made of polyamide 6.6 weather resistant (PA66W) and Polyamide V0 (PA66V0) for low smoke emission or limited fire hazard
- T-Series cable ties available in a wide range of sizes made of Polyamide 6.6 weather resistant and Polyamide 6.6 V0 (PA66W+PA66V0)
- KR-Series cable ties with its unique locking system. Very secure and vibration resistant fixing solution made of Polyamide 6.6 and Polyamide 6.6 weather resistant (PA66 NA+PA66W)
- Other series and materials like PA46, PA66HS, Tefzel(R) and PEEK and others available upon request

Driven by improvement

Smarter solutions in support of resource efficiency

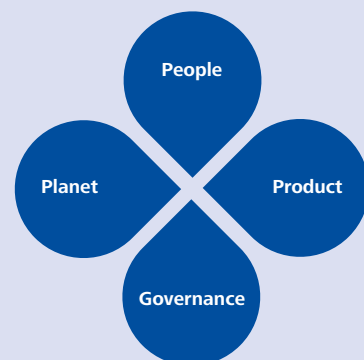
As a global company known for manufacturing excellence and reliable local support, HellermannTyton works to reduce resource consumption and improve resource efficiency across its operations. Sustainability goals are integrated into our business through four strategic focus areas: People, Planet, Product and Governance.

We recognise that every improvement matters. This includes reducing material use and product weight, minimising waste, lowering energy consumption and improving the efficient use of materials in products and packaging.

We work closely with customers and partners across the value chain to identify opportunities to improve resource efficiency and support sustainability objectives through product innovation and collaboration.

One example of our circularity initiatives is the collection of PA6.6 production waste. Cut-off cable tie ends are collected at customer sites, sent for recycling and reprocessing into materials that HellermannTyton uses to manufacture new products, which are then returned to the customer, supporting a circular material flow.

The cornerstones of HellermannTyton's strategy.



MADE FOR REAL[®]

Proven solutions for rail applications

Our recommendations for rail applications

Selecting the right product for each application is essential for ensuring the long-term reliability, safety and efficiency of rail vehicle construction. Based on our experience of working in challenging environments, we recommend the following solutions:

TA37: Advanced heat shrink tubing

TA37 is a unique combination of three fundamental properties for safe rail applications: halogen-free material, adhesive-lined sealing and flame retardancy.

With a 3:1 shrink ratio and a wide size range, TA37 adapts to various cable diameters while providing reliable environmental protection and flexibility.

More products details on page 44

Why choose TA37?

- Unique combination of halogen-free, adhesive-lined and flame-retardant properties
- Reliable sealing against moisture and environmental influences
- Flexible material for easier installation
- Wide application range (3:1 shrink ratio, multiple sizes)
- Certified EN 45545-2 R22 HL3; R23 HL3





TLFD: Durable identification for harsh environments

In railway applications, clear and durable identification supports safety, maintenance, and lifecycle management. TLFD is designed to meet the highest industry requirements for marking durability and long-term performance.

It fully complies with key railway standards, including:

- EN 45545-2 (fire safety)
- EN 50343 (durability of markings)

This is particularly important in railway applications, where trains generate **railway metallic dust**, especially when braking. These abrasive particles spread everywhere and affect identification systems. Our TLFD markers have successfully undergone testing for resistance to metallic dust abrasion, ensuring reliable and durable identification throughout their service life.

More products details on page 59



Why choose TLFD?

- Compliant with key railway standards and specifications
- Excellent durability under real operating conditions
- Resistant to harsh environments (diesel, dust, vibration, ageing etc.)
- Reliable long-term identification for maintenance and safety
- Certified EN 45545-2 R22 HL3; R23 HL3

MADE FOR REAL

OS-Series: optimised for small harnesses

For small harness applications, black outside serrated cable ties offer a reliable, cable-friendly solution. Unlike their inside-serrated counterparts, they minimise the risk of damaging sensitive cable insulation.

We conducted a vibration test to assess potential cable marking caused by serrated ties applied to the outside of the cable. Testing followed CEI 61373:2010, category 1A, the standard commonly used in the railway industry. (1) No visible damage to the cable insulation was observed during or after testing. (2) Minor visual marks may occur when cable ties are placed between harnesses, but no insulation damage was detected. In contrast, inside serrated cable ties generally create deeper marks, increasing the risk of insulation damage.

More products details on page 15



(1)



(2)

Why choose the OS range?

- Protects cable insulation thanks to its smooth inner surface
- Proven performance under railway vibration conditions
- Ideal for dense and sensitive harness assemblies
- Certified EN 45545-2 R22 HL2; R23 HL3



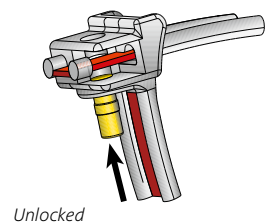


KR-Series: High performance for power cables

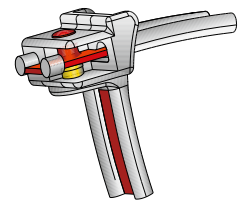
These unique, patented cable ties are designed for demanding railway environments with high vibration and mechanical stress. Their design ensures secure and durable fastening, even for large cable diameters and heavy-duty applications.

KR cable ties have been tested according to railway vibration standards (CEI 61373:2010) and demonstrate exceptional mechanical strength and long-term reliability in rolling stock applications.

More products details on page 16



Unlocked



Locked



Why choose KR ties?

- Outstanding vibration and mechanical resistance
- Ideal for large cable diameters and power applications
- Secure, durable fastening in harsh environments
- Flexible installation options: Manual; manual with
- automatic tension control; Pneumatic tooling
- Certified EN 45545-2 R22 HL2; R23 HL3

MADE FOR REAL[🌐]

Customised solutions for rail applications



■ When standard solutions reach their limits, we step in.

We identify your requirements early by continuously analysing market developments and emerging industry trends, and translate them into practical solutions. Our portfolio currently includes over 75,000 products, and if the right solution is not available, we will develop it with you.

As an IRIS-certified development partner with experience in rail vehicle construction, HellermannTyton specialises in bespoke solutions. From the initial concept to series production, we support you with technical expertise, industry know-how, and close collaboration.

Our experts are always ready to support you, wherever and whenever you need us.

We develop customised products that are precisely tailored to your specifications and application requirements. Using state-of-the-art CAD systems and rapid prototyping technologies, we transform ideas into tangible, high-performance solutions in the shortest possible time.

Our experienced engineers ensure the highest quality standards are met throughout the entire development process, from design and material selection to validation.

Your advantages at a glance:

- Faster development cycles and reduced time-to-market
- Weight optimisation for improved efficiency
- Reduced component variety and simplified assembly
- Application-specific material selection for maximum reliability
- Solutions designed to meet railway standards and regulatory requirements

The result: Innovative and reliable solutions that add real value to your application.



Engineer-to-Engineer: From idea to proven solution

A practical example of our development expertise is the One-Click Mount.

Originally developed to streamline time-consuming cable installation processes in rail vehicle production, this solution allows pre-assembled cable ties to be securely attached to existing cable tray holes with just one click. This makes installation significantly faster, even in hard-to-access areas or where cable routes are already populated.

The One-Click Mount allows installers to pre-position and bundle cables before fixing them in place, reducing handling effort and streamlining assembly to deliver measurable time savings in rolling stock production.

The result is a robust, vibration-resistant fastening solution that accelerates installation and simplifies maintenance and repositioning when needed.





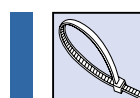
Our products for rolling stock

We have a solution for all parts of rail vehicles. The toughest requirements are on the bogies, on the roof and underbody. Vibration resistance is key. We conduct vibration tests on our products to make sure that they conform to the requirements (CEI 61373(1999 cat 2). We have been supplying products to the railway sector since the 1950's. We have a long track record in fastening, protecting and identify cables with plastic or metal solutions.

We are conscious of the high standards that the railway industry needs to achieve. With a strong emphasis on quality, we can help you find the right product or service.

HellermannTyton has been serving leading rolling stock players for decades. Our close relationships enable us to work together easily on specific challenges and we regularly co-develop innovative product solutions.

It is in our DNA to create customised solutions for our customers. We adapt to your needs.



Cable Ties and Fixings
Page 15



Insulation
Page 43



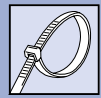
Cable Protection Systems
Page 47



Identification Systems
Page 57



Application Tooling
Page 67



Cable ties for thin-walled bundles

OS-Series

OS-Series cable ties are used in many areas where thin-walled or soft insulation wires and cable are being installed, for instance automotive and electrical industry.

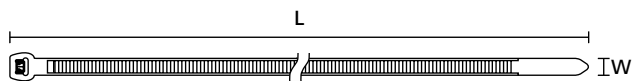
Features and benefits

- Outside serrated cable tie with smooth surface to the bundle
- Tie follows the contours of the cable bundle perfectly
- Takes up less space due to curved head design
- Easy insertion combined with high tensile strength
- PA46 material for higher temperatures up to +195 °C (500 h)
- PA66V0 cable ties fulfill Limited Fire Hazard requirements
- Easy application either manually or with a processing tool



Outside serrated OS-Series cable tie with smooth surface to the bundle.

MATERIAL	Polyamide 6.6 V0 (PA66V0)	Polyamide 6.6, UV-resistant (PA66W)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)	-40 °C to +85 °C
Flammability	UL 94 V0	UL 94 V2
EN 45545-2 Classification	R22 HL2, R23 HL3	R22 HL2, R23 HL2



OS-Series



The curved head design of the OS-Series

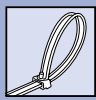
TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Pack Cont.	Tools	Article-No.
T18ROS	2.5	100.0	20.0	80	PA66V0	White (WH)	100 pcs.	1-2;4-5;25	118-00079
	2.5	100.0	20.0	80	PA66W	Black (BK)	100 pcs.	1-2;4-5;25	118-00125
T30LOS	3.4	200.0	50.0	135	PA66V0	White (WH)	100 pcs.	1-2;4-5;25	118-00080
	3.4	200.0	50.0	135	PA66W	Black (BK)	100 pcs.	1-2;4-5;25	118-00126
T50ROS	4.6	200.0	50.0	225	PA66V0	White (WH)	100 pcs.	1-2;4-7;25	118-00065
	4.6	200.0	50.0	225	PA66W	Black (BK)	100 pcs.	1-2;4-7;25	118-00127
T50MOS	4.6	245.0	66.0	225	PA66V0	White (WH)	100 pcs.	1-2;4-5;25	118-00081
	4.6	245.0	66.0	225	PA66W	Black (BK)	100 pcs.	1-2;4-5;25	118-00128
T50LOS	4.6	384.0	110.0	225	PA66W	Black (BK)	100 pcs.	1-2;4-7;25	118-00129
T120ROS	7.6	385.0	105.0	535	PA66V0	White (WH)	100 pcs.	1;3;6-7;9-10;25	118-00082
	7.6	385.0	105.0	535	PA66W	Black (BK)	100 pcs.	1;3;6-7;9-10;25	118-00130

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. 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)

EN 45545-2

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



Cable tie locked by glass fibre pin

KR-Series, 1-Piece

This cable tie is distinguished by its smooth strap and unique locking mechanism. The chamfered head of the KR-Series allows for a firm fit around the bundled element. Due to its special design KR-Series cable ties can be used as a safety method to bundle any cable and to also secure bellows on steering racks, water hoses or vacuum lines. The endless strap version is fairly flexible and can be cut to any length required. Separate heads are available to fix the strap.

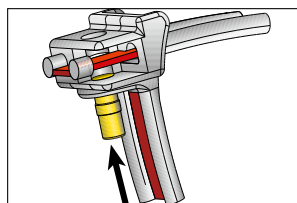
Features and benefits

- Cable tie without serration to avoid any damage to cables
- Strap is locked into place with a glass-fibre reinforced pin
- Very secure and vibration resistant fixing
- Available in various materials, colours and almost every length
- Cable ties from PA12 are highly resistant to chemicals, impact and UV light
- KR-ties up to 426 mm are made as one piece
- For assembly a special KR-tool is needed

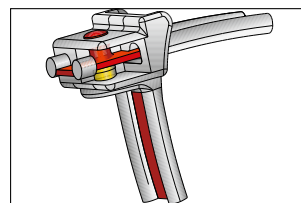
Specific part numbers according to EN45545 available on request.



KR-Series ties applied on a cable tray.



The unlocked head (yellow) of a KR-tie.



The cable tie (red) is locked into place with the pin.

MATERIAL	Polyamide 6.6 (PA66)	Polyamide 6.6, UV-resistant (PA66W)
Operating Temperature	-40 °C to +85 °C	
Flammability	UL 94 V2	
EN 45545-2 Classification	R22 HL1, R23 HL2	R22 HL2, R23 HL2

RoHS ✓



Cable tie KR-Series

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Pack Cont.	Tools	Article-No.
KR6/35	6.1	360.0	93.0	490	PA66	Natural (NA)	50 pcs.	11-13	121-63519
	6.1	360.0	93.0	490	PA66W	Black (BK)	50 pcs.	11-13	121-63580
KR8/21	8.0	210.0	47.0	785	PA66	Natural (NA)	50 pcs.	11-13	121-82119
	8.0	210.0	47.0	785	PA66W	Black (BK)	50 pcs.	11-13	121-82180
KR8/33	8.0	337.0	86.0	785	PA66	Natural (NA)	50 pcs.	11-13	121-83319
	8.0	337.0	86.0	785	PA66W	Black (BK)	50 pcs.	11-13	121-83310
KR8/43	8.0	426.0	105.0	785	PA66W	Black (BK)	50 pcs.	11-13	121-84310

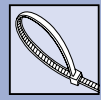
Recommended Tools: 11=KR6/8, 12=EVO-KR, 13=KR8PNSE. For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

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

EN 45545-2



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Cable ties for parallel routing

DH-Series

Double loop head ties are ideal for separation of two cable runs without the need for additional cable ties. Additionally these ties are widely used within the packaging industry. The first loop closes and secures the bag whilst the second loop can be made into a carrying handle (subject to weight).

Features and benefits

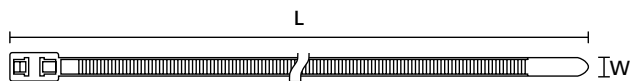
- Possibility to separate bundles with only one cable tie
- Cable tie with two heads creating an inside and outside serrated loop
- Available in a wide range of materials
- Bundles can be of different diameter
- Maximum bundle diameter is a maximum combined bundle
- Easy application either manually or with a processing tool



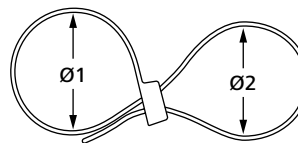
DH-Series cable ties for parallel routing.

MATERIAL	Polyamide 6.6 V0 (PA66V0)
EN 45545-2 Classification	R22 HL2, R23 HL3

RoHS



DH-Series



DH-Series maximum combined bundle diameter

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Min. Tensile Strength 2nd loop	Material	Colour	Pack Cont.	Tools	Article-No.
T50RDH	4.7	210.0	38.0	225	180 N	PA66V0	Natural (NA)	100 pcs.	1-2;4-7;9;25	117-00022

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNSP2, 5=EVO7i, 6=ProCut 9 no battery, 7=EVO9i, 9=EVO9iHT, 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. 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)

EN 45545-2

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

Fir tree parts FT6 - FT8

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

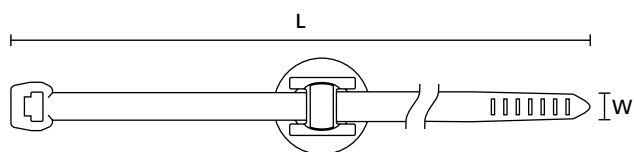
- Pre-assembled 2-piece fixing tie with fir tree foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust and dirt
- Fir tree foot part can be used for a variety of panel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



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

MATERIAL	Polyamide 6.6, UV-resistant (PA66W), Polyamide 6.6/6, V0 (PA666V0)	Polyamide 6.6, heat stabilised (PA66HS), Polyamide 6.6, UV-resistant (PA66W)
EN 45545-2 Classification Footpart		R22 HL2, R23 HL2

RoHS ✓



TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø	Material	Colour	Tools	Article-No.
T30RFT6LG		6.4 - 7.1	0.75 - 6.00	3.5	150.0	30.0	135	16.0	PA66W PA666V0	BK	1-2;4-5;25	156-03928
T50ROSFT8GSD		8.0 - 8.5	1.5 - 4.0	4.6	200.0	45.0	225	16.0	PA66HS PA66W	BK	1-2;4-7;25	156-01484

Recommended Tools: 1=MK10-SB, 2=MK20, 4=MK3PNP2, 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.



Arrowhead Cradle

SFC

Offering simple and easy methods of securing cables or pipes, these fixing accessories have many applications within a wide range of industries.

Features and benefits

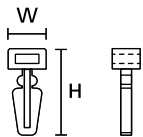
- Arrowhead fixing for use in pre-drilled or punched holes
- Ideal for applications with limited space and restricted access
- Parts with disc protect against dirt and dust



The SFC3 series for securely fixing and to route cables and pipes.

MATERIAL	Polyamide 6.6, UV-stabilised (PA66UV)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)
Flammability	UL 94 V2
EN 45545-2 Classification	R22 HL2, R23 HL2

RoHS



SFC

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Height (H)	Strap Width max. (G)	Material	Colour	Width (W)	Length (L)	Article-No.
SFC3-F		6.4	2.0 - 3.3	16.8	6.5	PA66UV	Black (BK)	22.0	16.8	151-00340

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.

EN 45545-2

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



Mounts with Fir tree

FT Series

Mounts with Fir Tree provide a simple and secure fixing solution for cable management across a wide range of panel and mounting hole configurations.

Available in various designs, the range offers flexibility for different installation requirements and application environments.

Features and benefits

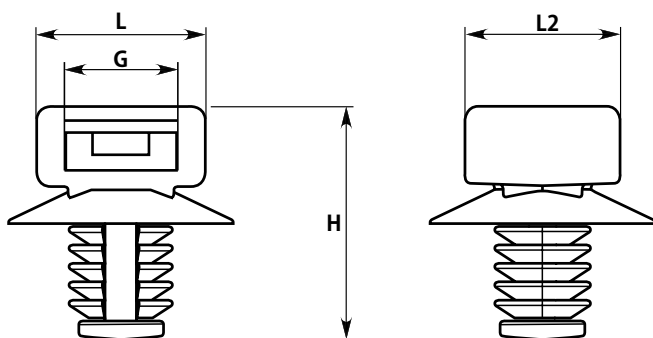
- Quick push-fit installation without tools
- Accommodate a range of panel thicknesses
- Can be used in both through holes and threaded holes
- Ideal for cable, wire and hose routing applications



Push-in mount designed for fast and reliable installation in panel applications.

MATERIAL	Polyamide 6.6, heat and UV-stabilised (PA66HSUV)	Polyamide 6.6, heat and UV-resistant (PA66HSW)
Operating Temperature	-40 °C to +110 °C	
Flammability	UL 94 V2	UL 94 HB
EN 45545-2 Classification	R22 HL1, R23 HL2	

RoHS ✓



TYPE	Hole Ø (FH)	Panel Thickness	Strap Width max. (G)	Disc Ø	Length (L)	Length (L2)	Height (H)	Material	Colour	Article-No.
FT11	6.5 - 7.0	0.8 - 4.5	7.9	16	12.0	11.0	16.5	PA66HSUV	Black (BK)	151-00575
FT9J	8.5 - 8.9	1.3 - 4.5	7.9	21	12.0	11.0	18.5	PA66HSW	Black (BK)	151-02658

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.

EN 45545-2

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2-piece fixing ties with arrowhead, with disc

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

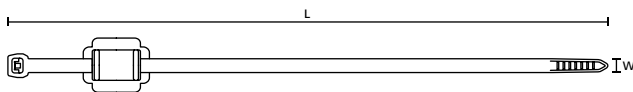
- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Versions for oval holes feature anti-twist protection



Our 2-Piece Fixing Tie T50RSFT725 ist specially designed for railway application with an fixing hole of 7 x 25 mm.

MATERIAL	Polyamide 6.6, heat stabilised (PA66HS), Polyamide 6.6, UV-resistant (PA66W)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)
EN 45545-2 Classification Footpart	R22 HL2, R23 HL2

RoHS



One Click FERRO (top view)

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
One Click FERRO-T50ROSSFT725		7.0 x 50.0	1.0 - 2.0	4.6	200.0	50.0	225	PA66HS PA66W	BK	1-2;4-5;25	156-01577

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 base

LOK04

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

Features and benefits

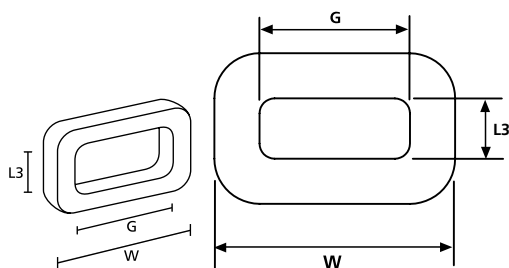
- For routing bundles over a distance in parallel
- Can be used with cable ties up to 9 mm cable tie width



LOK04 ring for parallel routing.

MATERIAL	Polyamide 6.6, UV-resistant (PA66W)
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2
EN 45545-2 Classification	R22 HL3, R23 HL3

RoHS ✓



LOK04

LOK04 Fixing Base

TYPE	Width (W)	Length (L3)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
LOK04	16.0	4.0	9.0	PA66W	Black (BK)	100 pcs.	151-00761

All dimensions in mm. Subject to technical changes.

EN 45545-2

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Paste adhesive mount

PMB-Series

PMB3 paste mount offers a fixing solution wherever screw fixing is not allowed. Due to the design the mount can even be installed onto uneven surfaces. PMB3 paste mount is used in the railway industry as well as in the renewable energy industry. Further applications are in the electrical industry and the production of switching cabinets. The PMB3 paste adhesive mount is suitable for fixings with paste/liquid adhesive.

Features and benefits

- PMB3 paste adhesive mount for fixings with paste / liquid adhesive
- Mount geometry offers a good form closure with cured adhesive
- Can even be installed onto uneven surfaces
- Designed for use in confined spaces
- Made of flame-retardant material PA666V0
- Cost efficiency through reduced use of paste adhesive



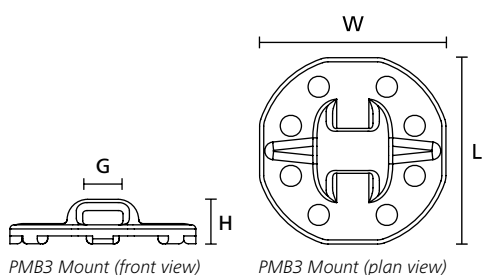
Our PMB mount (paste mount adhesive) as an adhesive fastening for a strong hold, even overhead.



PMB3 paste adhesive mount for fixing with paste/liquid adhesive.

MATERIAL	Polyamide 6.6/6, V0 (PA666V0)
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V0
EN 45545-2 Classification	R22 HL2, R23 HL3

RoHS



TYPE	Width (W)	Length (L)	Height (H)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
PMB3	22.6	22.6	5.4	4.7	PA666V0	Black (BK)	100 pcs.	151-02575

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

EN 45545-2

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Screwed Ratchet Clamp

for multiple parallel cable routing

The Screwed Ratchet Clamp can be used wherever cables are to be laid in parallel. The clamp can be mounted both horizontally and vertically. In the second assembly step the cables can be inserted. The component can be used to fix various cables or cable combinations as it can be filled in a range from 25 to 150 mm.

Features and benefits

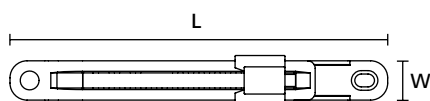
- Cables and tubes can be bundled in parallel
- Can be opened and closed with one hand and without tools due to lever on the sliding element
- Re-openable, thus cables can be exchanged and added when required
- Can be screwed vertically or horizontally depending on the equipment
- After being screwed the locking cover/ lever is pushed onto the cable
- Allows a flexible accommodation of the cables with regards to the number of cables to be routed



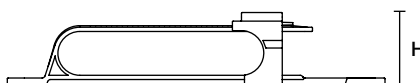
Screwed Ratchet Clamp SRC150M8 for parallel bundling of cables and tubes.

MATERIAL	Polyamide 6.6/6, glass-fibre reinforced (PA666GF15), Polyamide 6.6/6, glass-fibre reinforced (PA666GF30)
Operating Temperature	-40 °C to +100 °C
EN 45545-2 Classification	R22 HL2, R22 HL3, R23 HL2, R23 HL3

RoHS ✓



SRC150M8 (top view)



SRC150M8 (side view)

TYPE	Width (W)	Length (L)	Height (H)	Bundle Ø max.	Material	Colour	Article-No.
SRC110M6	32.4	165.0	29.4	19.0	PA666GF15 PA666GF30	Black (BK)	156-03187

All dimensions in mm. Subject to technical changes.

EN 45545-2

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Screw fixing mounts

Cable tie mounts with curved design

Designed specifically for holding heavier cable bundles these mounting bases can be used in many industries from agriculture to truck manufacturing. They offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 8.3 mm width.

Features and benefits

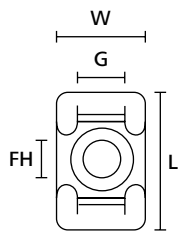
- Curved design for additional cable support
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration
- Mounts are available in various sizes and materials



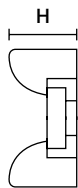
Cable Tie Mounts KR6G5, KR8G5 and CTM.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2
EN 45545-2 Classification	R22 HL1, R23 HL2

RoHS ✓



KR6G5, KR8G5 and CTM (plan view)



KR6G5, KR8G5 and CTM (side view)

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
KR6G5	12.0	18.0	9.0	4.5	6.0	PA66	Natural (NA)	100 pcs.	151-24619
KR8G5	14.5	25.0	12.0	6.5	8.0	PA66	Natural (NA)	100 pcs.	151-24819

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

EN 45545-2

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Screw fixing mounts

LKC-, NY- and LOK-series with overlapping curved design

Designed specifically for holding heavier cable bundles, these mounting bases can be used in many industries from agriculture to truck manufacturing. They offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 13 mm width.

Features and benefits

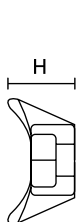
- Curved design for additional cable support
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration



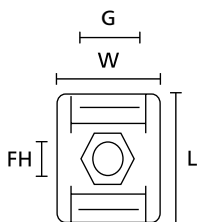
LOK02 fixing base application.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2
EN 45545-2 Classification	R22 HL1, R23 HL2

RoHS ✓



NY3256 (side view)



NY3256 (plan view)

TYPE	Drawing	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
NY3256		12.0	13.5	7.8	3.1	8.0	PA66	Natural (NA)	1000 pcs.	151-25219

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

EN 45545-2

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Screw fixing mounts

LKM / CL / FH with curved design for sideways fixing

In areas with limited space these mounting bases allow the cable to be offset from the fixing hole, 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

- Small overall size for areas with limited mounting space
- Screwable mounts for fixing cable sideways
- Ideal for securing large, heavier bundles
- Suitable for cable ties up to 8 mm width



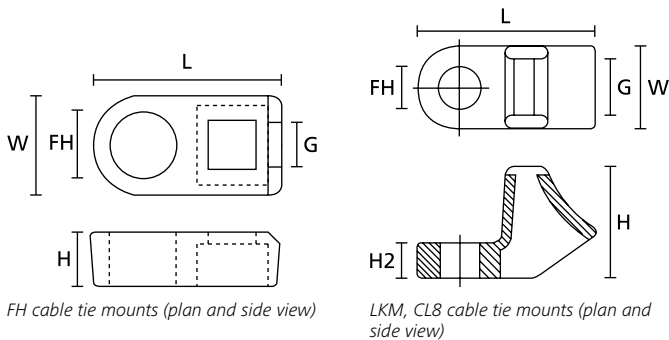
LKM, CL8 and FH cable tie mounts for applications with limited space.

MATERIAL	Polyamide 6.6 (PA66)	
Operating Temperature	-40 °C to +85 °C	
Flammability	UL 94 V2	
EN 45545-2 Classification	R22 HL1, R23 HL2	R22 HL2, R23 HL2

HF ✓

RoHS ✓

RoHS ✓



FH cable tie mounts (plan and side view)

LKM, CL8 cable tie mounts (plan and side view)

TYPE	Width (W)	Length (L)	Height (H)	Height (H2)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
CL8	12.5	27.3	16.0	5.0	6.5	8.0	PA66	Natural (NA)	100 pcs.	151-02258
CL9	23.0	31.6	20.0	14.0	5.4	8.0	PA66	Natural (NA)	100 pcs.	151-26969

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. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

EN 45545-2

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2-Piece Fixing Ties for Heavy Duty Applications, for Screws

DHDM-Series

Used mainly in the transport sector, HDM mounts can find various applications depending on their environment. In the automotive sector, these mounts are mainly used to hold engine harnesses. Thanks to their high resistance to heat and movement, harnesses will be maintained securely. They are also found in the railway sector to maintain corrugated tubing and train harnesses. They can also be used in the military and naval sectors to route electrical cables in vehicles. Thanks to its many properties, HDM mounts can be used in many environments.

Features and benefits

- Pre-assembled 2-piece fixing tie
- Cable tie head can be moved after bundling
- Secure alignment to the bundle due to H-design
- A suitable alternative for metal clamps
- Withstands vibrations and displacement forces
- High tightening torque through metal bushing



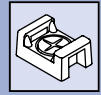
DHDM (Double heavy duty mount) for parallel routing of bundles.

MATERIAL	Polyamide 6.6, UV-resistant (PA66W), Polyamide 6.6, glass-fibre reinforced (PA66GF15)
EN 45545-2 Classification Footpart	R22 HL2, R23 HL2

RoHS ✓

TYPE	Width (W)	Width (W2)	Length (L)	Length (L2)	Height (H)	Bundle Ø max.	Mounting Screw Type	Material	Colour	Pack Cont.	Article-No.
KR8/33DHDM6SET	8.0	20.0	337.0	59.4	15.5	86.0	M6 Screw	PA66W PA66GF15	Black (BK)	500 pcs.	156-02485
KR8/33DHDM8SET	8.0	20.0	337.0	59.4	15.5	86.0	M8 Screw	PA66W PA66GF15	Black (BK)	500 pcs.	156-02486

All dimensions in mm. Subject to technical changes.



Ratchet P-Clamp

For bundle diameters from 6.2 mm to 13.7 mm, A-Series

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both in- and outdoors. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

Features and benefits

- Ratchet P-Clamp A-Series for bundle diameters from 6.2 mm to 13.7 mm
- One-piece ratchet closure design allows for easy installation during pre- or final assembly
- Multiple configurations handle a wide range of diameters and applications, reducing part inventory
- Clamp interior is designed to guide and center bundle to reduce pinching
- Easy release feature allows for quick adjustments and maintenance
- Impact modified, heat and UV stabilized PA66 provides long-term durability, in- and outdoors
- Steel mounting plate tolerates high torque mounting and is treated to resist chemicals and salt spray



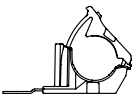
A-Series angled Ratchet P-Clamps.

MATERIAL	Polyamide 6.6/6, V0 (PA666V0), Steel (ST), Zinc plated (ZN)
Operating Temperature	-40 °C to +120 °C
Flammability	UL 94 V0
EN 45545-2 Classification	R22 HL2, R23 HL3

HF ✓

LFH ✓

RoHS ✓

TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article-No.
RCA180SM8		34.9	83.1	6.2	13.7	8.4	50.5	Short	PA666V0 ST ZN	Black (BK)	151-03012

All dimensions in mm. Subject to technical changes.

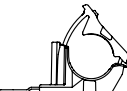
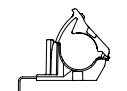
EN 45545-2

ASTM

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For bundle diameters from 12.7 mm to 19.5 mm, B-Series

TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article-No.
RCB90SM8		-	-	12.7	19.5	8.4	-	Short	PA666V0 ZN	Black (BK)	151-03411
RCB180SM6SS		34.9	83.1	12.7	19.5	6.6	52.8	Short	PA666V0 SS304	Black (BK)	151-02736
RCB180SM8		34.9	83.1	12.7	19.5	8.4	52.8	Short	PA666V0 ST ZN	Black (BK)	151-03013
RCB180SM10SS		34.9	83.1	12.7	19.5	10.4	52.8	Short	PA666V0 SS304	Black (BK)	151-03005
RCB90SM10SS		34.9	68.8	12.7	19.5	10.4	49.3	Short	PA666V0 SS304	Black (BK)	151-03006

All dimensions in mm. Subject to technical changes.

EN 45545-2 **ASTM**

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For bundle diameters from 19.4 mm to 36.0 mm, C-Series

TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article-No.
RCC90SM8		-	-	19.4	36.0	8.4	-	Short	PA666V0 ZN	Black (BK)	151-03412
RCC180SM8		34.9	103.0	19.4	36.0	8.4	62.3	Short	PA666V0 ST ZN	Black (BK)	151-03014
RCC180SM8SS		34.9	103.0	19.4	36.0	8.4	62.3	Short	PA666V0 SS304	Black (BK)	151-02737

All dimensions in mm. Subject to technical changes.

EN 45545-2 **ASTM**

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For bundle diameters from 36.0 mm to 51.0 mm, D-Series

TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article-No.
RCD15SM8SS		34.9	107.7	36.0	51.0	8.31	60.9	Short	PA666V0 SS304	Black (BK)	151-03149
RCD180SM8		34.9	115.5	36.0	51.0	8.4	70.0	Short	PA666V0 ST ZN	Black (BK)	151-03015
RCD180SM8SS		34.9	115.5	36.0	51.0	8.4	70.0	Short	PA666V0 SS304	Black (BK)	151-02734
RCD180SM10SS		34.9	115.5	36.0	51.0	10.4	70.0	Short	PA666V0 SS304	Black (BK)	151-03008
RCD180MM8SS		34.9	137.5	36.0	51.0	8.4	92.0	Medium	PA666V0 SS304	Black (BK)	151-03111
RCD180LM8SS		34.9	166.5	36.0	51.0	8.4	121.0	Long	PA666V0 SS304	Black (BK)	151-02735
RCD180LM10SS		34.9	166.5	36.0	51.0	10.4	121.0	Long	PA666V0 SS304	Black (BK)	151-03007
RCD30SM8SS		34.9	95.0	36.0	51.0	8.31	48.5	Short	PA666V0 SS304	Black (BK)	151-03146
RCD30LM8SS		34.9	127.0	36.0	51.0	8.31	80.5	Long	PA666V0 SS304	Black (BK)	151-03145
RCD30LM10SS		34.9	127.0	36.0	51.0	10.4	80.5	Long	PA666V0 SS304	Black (BK)	151-03009

All dimensions in mm. Subject to technical changes.

EN 45545-2 **ASTM**

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Ratchet P-Clamp

For bundle diameters from 36.0 mm to 51.0 mm, D-Series

TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article-No.
RCD90LM8		34.9	129.2	36.0	51.0	8.4	94.5	Long	PA666V0 ST ZN	Black (BK)	151-02878
RCD90LM8SS		34.9	129.2	36.0	51.0	8.4	94.5	Long	PA666V0 SS304	Black (BK)	151-03144
RCD90LM10SS		34.9	129.2	36.0	51.0	10.4	94.5	Long	PA666V0 SS304	Black (BK)	151-03010
RCD90SM8		34.9	101.2	36.0	51.0	8.4	66.5	Short	PA666V0 ST ZN	Black (BK)	151-02877
RCD90SM8SS		34.9	101.2	36.0	51.0	8.4	66.5	Short	PA666V0 SS304	Black (BK)	151-03011

All dimensions in mm. Subject to technical changes.

EN 45545-2

ASTM

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Ratchet P-Clamp Accessories

Protection inserts

Soft material inserts snap precisely into the body of the clamp to provide an enhanced level of protection for applications with movement, high vibration or soft cable bundles. An integrated rib on the top of the insert prevents a lateral displacement of the corrugated tube, for e.g. acceleration. This provides secure fastenings of a corrugated tube with vertical and horizontal alignment.

Features and benefits

- Soft inserts (for A - D Series) for an additional level of protection
- Torque support for defined contact pressure
- Use of manual processing Tool EVO possible
- CT-Insert offers low fire hazard and is conform to low smoke generation requirements (UL94 V0)
- CT-Insert offers low evolution of toxic gases and corrosive acids in event of an fire



Ratchet P-Clamps soft inserts offering an additional level of protection.

MATERIAL	Polyamide 6.6/6, V0 (PA666V0)
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V0
EN 45545-2 Classification	R22 HL2, R23 HL3

RoHS ✓

TYPE	Width (W)	Bundle Ø min.	Bundle Ø max.	Description	Material	Colour	Article-No.
RCD-CT-INSERT	34.9	34.0	47.0	For convoluted tubes, D-Series	PA666V0	Black (BK)	151-02964

All dimensions in mm. Subject to technical changes.

EN 45545-2

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2-Piece Fixing Ties for Heavy Duty Applications, for Screws

HDM-Series

Used mainly in the transport sector, HDM mounts can find various applications depending on their environment. In the automotive sector, these mounts are mainly used to hold engine harnesses. Thanks to their high resistance to heat and movement, harnesses will be maintained securely. They are also found in the railway sector to maintain corrugated tubing and train harnesses. They can also be used in the military and naval sectors to route electrical cables in vehicles. Thanks to its many properties, HDM mounts can be used in many environments.

Features and benefits

- Pre-assembled 2-piece fixing tie
- Cable tie head can be moved after bundling
- Secure alignment to the bundle due to H-design
- A suitable alternative for metal clamps
- Withstands vibrations and displacement forces
- High tightening torque through metal bushing



These HDM (Heavy duty mount) are suitable for assembling on screws.

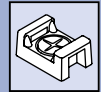
MATERIAL	Polyamide 6.6, UV-resistant (PA66W), Polyamide 6.6, glass-fibre reinforced (PA66GF15)	Polyamide 6.6, heat stabilised (PA66HS), Polyamide 6.6, UV-resistant (PA66W)
EN 45545-2 Classification Footpart	R22 HL2, R23 HL2	

RoHS ✓

TYPE	Width (W)	Width (W2)	Length (L)	Length (L2)	Height (H)	Bundle Ø max.	Mounting Screw Type	Material	Colour	Pack Cont.	Article-No.
T120ROSHDMP6SET	7.6	20.0	385.0	37.5	16.0	105.0	M6 Screw	PA66HS PA66W	Black (BK)	-	156-00980
KR8/33HDMP6SET	8.0	20.0	337.0	37.5	15.5	86.0	M6 Screw	PA66W PA66GF15	Black (BK)	1000 pcs.	156-02483
KR8/33HDMP8SET	8.0	20.0	337.0	37.5	15.5	86.0	M8 Screw	PA66W PA66GF15	Black (BK)	1000 pcs.	156-02484

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.



Plastic P-Clamps

HP-Series

For permanent or semi-permanent cable fixings this range of plastic P-Clamps can be used in many industries. Their light weight makes them particularly suitable for use in areas such as aircraft and aerospace where minimising weight, but retaining a strong fixing, is vitally important.

Features and benefits

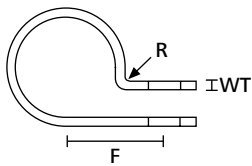
- Manufactured from Polyamide
- Good temperature resistance and high strength
- Wide range of sizes for every application
- Can be used without cable ties



P-Clamps H1P - H18P in different dimensions.

MATERIAL	Polyamide 6.6 (PA66)	
Operating Temperature	-40 °C to +105 °C	-40 °C to +85 °C
Flammability	UL 94 V2	
EN 45545-2 Classification	R22 HL1, R23 HL2	

RoHS ✓



P-Clamp H1P - H18P (side view)



P-Clamp H1P - H18P (plan view)

TYPE	Hole Ø (FH)	Fixing Hole Centres (F)	Bundle Ø max.	Material	Colour	Article-No.
H1P	4.2	8.5	3.2	PA66	Natural (NA)	211-60019
H2P	4.2	9.5	5.0	PA66	Natural (NA)	211-60029
H3P	4.2	10.0	6.5	PA66	Natural (NA)	211-60039
H4P	4.2	10.0	8.0	PA66	Natural (NA)	211-60049
H5P	4.2	11.0	9.5	PA66	Natural (NA)	211-60059
H6P	4.2	13.0	11.0	PA66	Natural (NA)	211-60069
H7P	4.2	14.0	12.5	PA66	Natural (NA)	211-60079
H8P	4.2	15.0	14.0	PA66	Natural (NA)	211-60089
H9P	4.2	16.0	16.0	PA66	Natural (NA)	211-60099
H10P	4.2	17.0	17.5	PA66	Natural (NA)	211-60109
H11P	4.2	18.0	19.0	PA66	Natural (NA)	211-60119
H12P	4.2	19.0	20.5	PA66	Natural (NA)	211-60129
H13P	5.2	20.5	22.0	PA66	Natural (NA)	211-60139
H14P	5.2	21.5	24.0	PA66	Natural (NA)	211-60149
H15P	5.2	23.0	25.5	PA66	Natural (NA)	211-60159

All dimensions in mm. Subject to technical changes.

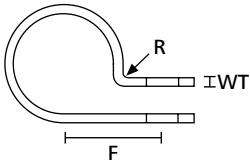
EN 45545-2

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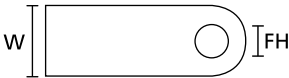


Plastic P-Clamps

HP-Series



P-Clamp H1P - H18P (side view)



P-Clamp H1P - H18P (plan view)

TYPE	Hole Ø (FH)	Fixing Hole Centres (F)	Bundle Ø max.	Material	Colour	Article-No.
H16P	5.2	24.0	28.5	PA66	Natural (NA)	211-60169
H17P	5.2	26.0	31.5	PA66	Natural (NA)	211-60179
H18P	5.2	27.5	35.0	PA66	Natural (NA)	211-60189

All dimensions in mm. Subject to technical changes.

EN 45545-2

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Screw fixing mounts

Cable support

Cable Support are specially designed to support cables in railway vehicles but can be used in any other industries.

It offers easy installation using cable ties.

Features and benefits

- Can be installed easily without welding.
- This light plastic cable support does not damage the cables.
- Improves workability and reduces number of parts to be used since this part can be installed without cushioning or taping on the cables.
- With cable ties, even thin cables can be fixed tightly without misalignment.
- Easy to branch out the cables.



MATERIAL	Polyamide 6.6, heat and UV-resistant (PA66HSW)
Operating Temperature	-40 °C to +110 °C
Flammability	UL 94 V2
EN 45545-2 Classification	R22 HL1, R23 HL2

RoHS ✓

TYPE	Width (W)	Length (L)	Hole Ø (FH)	Material	Colour	Pack Cont.	Article-No.
HCS2025L	25.0	200.0	4.9	PA66HSW	Black (BK)	25 pcs.	151-03295

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

EN 45545-2

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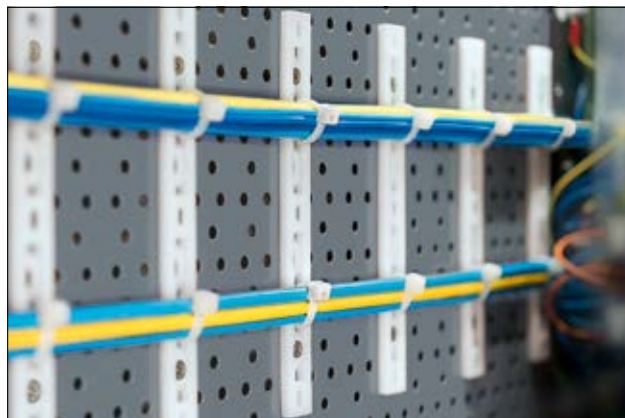
Mounting plates for screw fixing

MP-Series for parallel bundling

Many applications require each cable run to be firmly held in place but to be held separately from adjacent cable runs (example - control cabinets, machinery and military systems). The MP series of mounts can achieve this.

Features and benefits

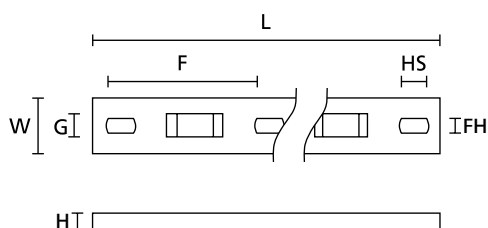
- Allow multiple cables to run in parallel
- Simple to fix with two screws
- Cables are fixed by using a cable tie through any combination of the available slots



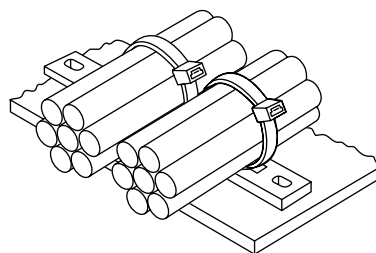
Screwable mounting plate MSMP

MATERIAL	Polyamide 6.6, UV-resistant (PA66W)	
Operating Temperature		-40 °C to +85 °C, (+105 °C, 500 h)
EN 45545-2 Classification	R22 HL3, R23 HL3	

RoHS ✓



Mounting plates MP and MSMP (plan and side view)



Mounting plates in application

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	No. of bundles	Material	Colour	Pack Cont.	Article-No.
MP1M3	12.7	44.4	3.2	3.7	5.2	1	PA66W	Black (BK)	500 pcs.	151-02507
MP1M5	12.7	44.4	3.2	5.1	5.2	1	PA66W	Black (BK)	2000 pcs.	151-03079
MP2M3	12.7	76.2	3.2	3.7	5.2	2	PA66W	Black (BK)	500 pcs.	151-02508
MP3M3	12.7	108.0	3.2	7.6 - 8.0	5.2	3	PA66W	Black (BK)	500 pcs.	151-02509
MP4M3	12.7	139.8	3.2	3.7	5.2	4	PA66W	Black (BK)	200 pcs.	151-02510
MP5M3	12.7	171.6	3.2	3.7	5.2	5	PA66W	Black (BK)	200 pcs.	151-02511

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

EN 45545-2

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Screw fixing mounts

Cable support

Cable Support are specially designed to support cables in railway vehicles but can be used in any other industries. It offers easy installation using cable ties.

Features and benefits

- Fixed tightly with two screws prevents the installed part and cables from revolving or moving.
- Suitable for parallel wiring. Making a space between the cables fixed in parallel prevents noise.
- Also applicable for vertical wiring.



MATERIAL	Polyamide 6.6, heat and UV-resistant (PA66HSW)
Operating Temperature	-40 °C to +110 °C
Flammability	UL 94 V2
EN 45545-2 Classification	R22 HL1, R23 HL2



TYPE	Width (W)	Length (L)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
LCS3HM4	33.0	70.0	4.2	5.6	PA66HSW	Black (BK)	25 pcs.	151-03367

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

EN 45545-2

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2-piece fixing ties for edges

EdgeClip, 1.0 - 3.0 mm, multiple routing

Fixing tie for edges are ideal when drilling is not an option, and there is no other solution to route cables along an edge.

Features and benefits

- Fixing ties multi-way for edges
- A single EdgeClip for a multitude of configurations (single, double, or triple routing, in parallel or perpendicular...)
- Sold with 1 tie, 2 additional ties can be added to fix cables up to 50 mm in diameter
- Tie can be rotated 90° without removing it from the loop
- Cables can be routed above or along the support
- Easy manual installation
- Suitable for panel thicknesses from 1 to 3 mm
- Double-grip metal insert, made of treated steel, for secure retention and significant pull-out resistance
- Solution without drilling or adhesive
- Very good UV resistance
- Cable tie retaining system to prevent slipping through the loops



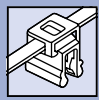
T50REC1-3 EdgeClip for single, double or triple routing in parallel or perpendicular for cables.

MATERIAL	Polyamide 6.6, heat stabilised (PA66HS), Polyamide 6.6, UV-resistant (PA66W), Steel C75S (C75S)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)
Flammability	UL 94 V2
EN 45545-2 Classification Footpart	R22 HL2, R23 HL2

RoHS ✓

TYPE	Width (W)	Material	Colour	Pack Cont.	Article-No.
T50ROSEC1-3TRIOSET	4.6	PA66HS PA66UV C75S	Black (BK)	100 pcs.	156-03661

All dimensions in mm. Subject to technical changes.



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

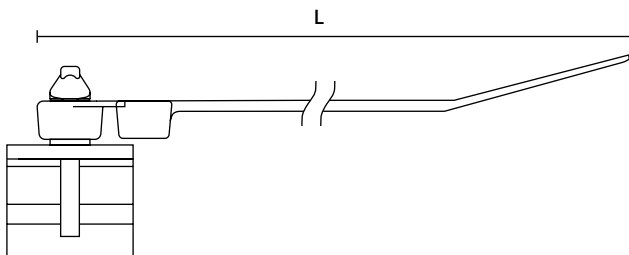
- Pre-assembled 2-piece fixing tie with EdgeClip
- Easy to assemble by hand
- Cable tie head can be moved after bundling
- For edges of 1 – 2.5 mm or 1 – 3 mm
- Can be rotated to the desired position



EdgeClip CBTO50R, rotatable 90°.

MATERIAL	Polyamide 6.6, UV-resistant (PA66W), Steel C75S (C75S)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)
Flammability	UL 94 V2

RoHS ✓



CBT30MR

TYPE	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	Material	Colour	Article-No.
T50ROSEC1-3CBTO-L	1.0 - 3.0	4.6	200.0	50.0	PA66W C75S	BK	156-03709
T50ROSEC1-3CBTO-T	1.0 - 3.0	4.6	200.0	50.0	PA66W C75S	BK	156-03673

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



2-piece fixing ties for edges

EdgeClip, 1.0 -3.0 mm

Many applications require cables to be run parallel to each other but separated to avoid abrasion. These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail.

Features and benefits

- For parallel routing of cables, hoses or harnesses
- Easy assembly, just clip on per hand
- For edges of 1.0 -3.0 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



T50ROSCBT02SET for parallel bundling.

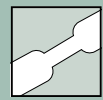
MATERIAL	Polyamide 6.6, heat stabilised (PA66HS), Polyamide 6.6, UV-resistant (PA66W), Steel C75S (C75S)
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2
Cable Tie	Polyamide 6.6, heat stabilised (PA66HS)
Foot Part	Polyamide 6.6, UV-resistant (PA66W)
EN 45545-2 Classification Footpart	R22 HL2, R23 HL2

RoHS

TYPE	Drawing	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.		Colour	Pack Cont.	Tools	Article-No.
T50ROSCBT02SET		1.0	4.6	200.0	45.0	225	Black (BK)	2500 pcs.	1-2;4-7;25	156-00805

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.



Heat shrinkable tubing 2:1 - Flame retardant

TR27

TR27 is used in applications where toxic emissions evolved in a fire must be minimised, e.g. for heavily populated buildings or safety sensitive areas like tunnels, hospitals, schools, theatres, mass transit vehicles and computer centres.

Features and benefits

- Thin wall, flexible polyolefin tubing
- Optional available with adhesive or as thick wall version (SR27)
- Halogen free and excellent flame-retardant properties
- Limited Fire Hazard
- Low generation of toxic gases and corrosive acid
- Low smoke generation
- Meets various industrial standards



TR27 is ideal for safety sensitive areas.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-40 °C to +105 °C
Min. Shrink Temperature	+115 °C
Longitudinal Change After Shrinkage	+5%/-10% max.
Dielectric Strength	15 kV/mm
Self extinguishing	Yes
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

LFH ✓

RoHS ✓



Heat Shrink Tubing 2:1



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Article-No.
TR27-3.2/1.6	3.2	1.6	0.51	150 m	Black (BK)	315-50320
TR27-4.8/2.4	4.8	2.4	0.51	60 m	Black (BK)	315-50480
TR27-6.4/3.2	6.4	3.2	0.64	60 m	Black (BK)	315-50640
TR27-9.5/4.8	9.5	4.8	0.64	60 m	Black (BK)	315-50950
TR27-12.7/6.4	12.7	6.4	0.64	60 m	Black (BK)	315-51270
TR27-19.1/9.5	19.1	9.5	0.76	60 m	Black (BK)	315-51900
TR27-25.4/12.7	25.4	12.7	0.51	60 m	Black (BK)	315-52540
TR27-38.1/19.1	38.1	19.1	1.02	60 m	Black (BK)	315-53810
TR27-50.8/25.4	50.8	25.4	1.14	60 m	Black (BK)	315-55100
TR27-76.0/38.0	76.0	38.0	1.27	60 m	Black (BK)	315-57600
TR27-101.6/50.8	101.6	50.8	1.40	30 m	Black (BK)	315-51020

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

EN 45545-2

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Heat shrinkable tubing 3:1 - Flame retardant

TA37 – thin wall adhesive lined

TA37 shrink tubing has a low smoke index and excellent flame retardant properties to meet strict fire security standards in electrical insulation.

Features and benefits

- Thin wall adhesive lined heat shrink tubing
- Halogen free
- Flame retardant
- Combination of these three (halogen free, adhesive lined and flame retardant) product properties is unique
- Low smoke generation
- Low generation of toxic gases and corrosive acid



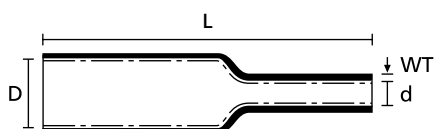
TA37 - Halogenfree and self-extinguishing 3:1 Thin Dual Wall Heat Shrink Tubing.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-40 °C to +105 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+85 °C
Longitudinal Change After Shrinkage	+3%/-15%
Dielectric Strength	19.7 kV/mm
Self extinguishing	Yes
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

LFH ✓

RoHS ✓



Heat Shrink Tubing 3:1 with adhesive



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Article-No.
TA37-3/1	3.2	1.0	0.95	1.2 m	Black (BK)	315-13000
TA37-4.5/1.5	4.8	1.5	1.10	1.2 m	Black (BK)	315-13001
TA37-6/2	6.4	2.0	1.20	1.2 m	Black (BK)	315-13002
TA37-9/3	9.5	3.0	1.30	1.2 m	Black (BK)	315-13003
TA37-12/4	12.7	4.0	1.40	1.2 m	Black (BK)	315-13004
TA37-19/6	19.1	6.0	2.20	1.2 m	Black (BK)	315-13005
TA37-24/8	24.0	8.0	2.50	1.2 m	Black (BK)	315-13006
TA37-40/13	40.0	13.0	2.50	1.2 m	Black (BK)	315-13007

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

EN 45545-2 **NFPA 130**

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Heat shrinkable tubing 3:1 - Flame retardant

TA37 – thin wall adhesive lined

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Article-No.
TA37-50/19	50.0	19.0	4.00	1.2 m	Black (BK)	315-13008
TA37-75/25	75.0	25.0	3.00	1.2 m	Black (BK)	315-13009
TA37 120-45	120.0	45.0	4.00	1.2 m	Black (BK)	315-13011

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

EN 45545-2 **NFPA 130**

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Heat shrinkable tubing 2:1 - self-extinguishing, halogen-free and diesel resistant

TU28 - thin-walled

The thin-walled heat shrinkable tubing TU28 is halogen-free, self-extinguishing, has a low smoke index and therefore is extremely suitable for installation in public transportation applications such as trains, busses, planes, tunnels and elevators.

Features and benefits

- Thin-walled, flexible polyolefin heat shrinkable tubing
- Halogen-free
- Self-extinguishing
- Low smoke index
- DIN EN 45545-2 (HL3) approved
- Diesel resistant



TU28 meets highest safety standards.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+120 °C
Longitudinal Change After Shrinkage	+/-5%
Dielectric Strength	19.7 kV/mm
EN 45545-2 Classification	R22 HL3, R23 HL3



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Reel Length	Colour	Article-No.
TU28-1.6/0.8	2.00	0.79	-	200.0 m	200 m	Black (BK)	300-06000
TU28-2.4/1.2	2.59	1.20	0.49	200.0 m	200 m	Black (BK)	300-06001
TU28-3.2/1.6	3.64	1.59	0.51	200.0 m	200 m	Black (BK)	300-06002
TU28-4.8/2.4	5.26	2.36	0.54	200.0 m	200 m	Black (BK)	300-06003
TU28-6.4/3.2	6.92	3.18	0.56	100.0 m	100 m	Black (BK)	300-06004
TU28-9.5/4.8	10.2	4.75	0.59	100.0 m	100 m	Black (BK)	300-06005
TU28-12.7/6.4	13.5	6.35	0.60	100.0 m	100 m	Black (BK)	300-06006
TU28-12.7/6.4-800mm	13.5	6.35	0.60	800.0	-	Black (BK)	300-06013
TU28-19.1/9.5	20.1	9.53	0.62	100.0 m	100 m	Black (BK)	300-06007
TU28-25.4/12.7	26.7	12.70	0.63	50.0 m	50 m	Black (BK)	300-06008
	26.7	12.70	0.63	100.0 m	100 m	Blue (BU)	300-06012
TU28-38.1/19.1	39.8	19.10	0.64	50.0 m	50 m	Black (BK)	300-06009
TU28-50.8/25.4	53.0	25.40	0.64	50.0 m	50 m	Black (BK)	300-06010
TU28-76.2/38.1	79.4	38.1	-	50.0 m	50 m	Black (BK)	300-06011

All dimensions in mm. Subject to technical changes.

EN 45545-2 **EN 50343**

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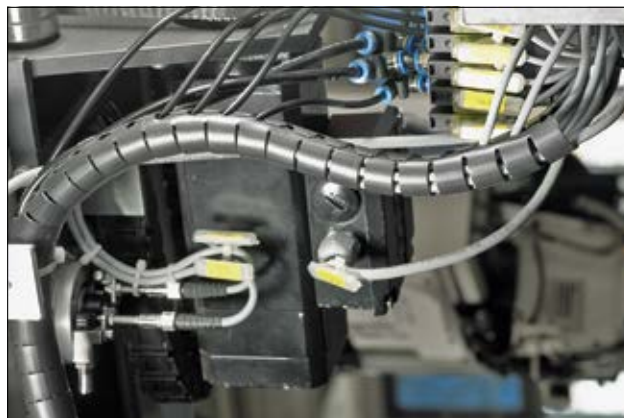
Helawrap cable cover

HWPAV0 flame-retardant and abrasion-resistant

Helawrap HWPAV0 is used to bundle and protect cable and wires, especially if there is vibration and abrasion. HWPAV0 has excellent flame-retardant properties and is halogen-free.

Features and benefits

- Ideal solution for bundling, protecting and fixing cables
- Quick and effortless to apply
- Self-extinguishing according to UL94 V0
- Very good abrasion protection
- Special profile enables branching off cable at any point
- Can be removed and reapplied often
- Handy applicator tool included



Cables can be branched off at any point for better, more flexible protection.

MATERIAL	Polyamide 6 V0 (PA6V0)	
Operating Temperature	-40 °C to +90 °C	-40 °C to +90 °C, intermittent +120 °C
Flammability	UL 94 V0	
EN 45545-2 Classification	R22 HL2, R23 HL3	

HF ✓

RoHS ✓

TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPAV08	9.0	Black (BK)	25 m	HAT8	161-63101
HWPAV016	16.0	Black (BK)	25 m	HAT16	161-63201
HWPAV020	21.0	Black (BK)	25 m	HAT20	161-63301
HWPAV025	27.0	Black (BK)	25 m	HAT25	161-63401
HWPAV030	32.0	Black (BK)	25 m	HAT30	161-63501

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

EN 45545-2



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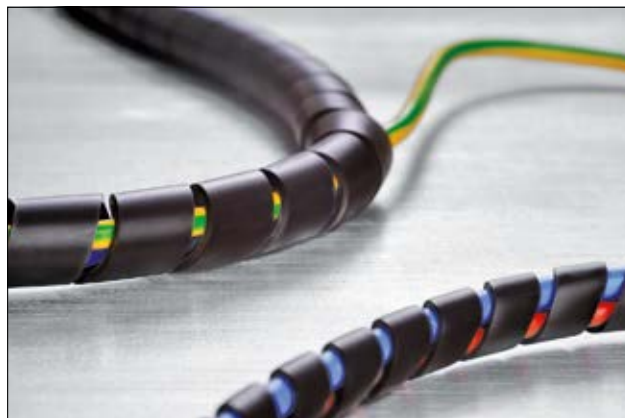
PA Flame-retardant Spiral Binding

SBPAV0

Due to its excellent flame protection properties, SBPAV0 spiral binding is particularly suitable for the rail and aviation industries as well as public buildings.

Features and benefits

- Organises and protects cables and hoses
- Self-extinguishing according to UL94 V0
- Very good protection against abrasion
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters

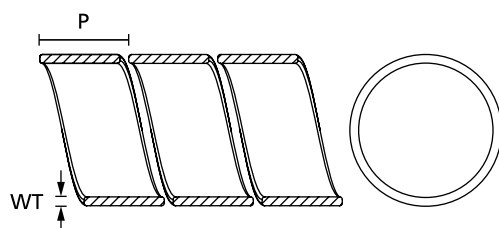


Spiral binding SBPAV0.

MATERIAL	Polyamide 6 V0 (PA6V0)
Operating Temperature	-40 °C to +95 °C, intermittent +130 °C
Flammability	UL 94 V0
EN 45545-2 Classification	R22 HL2, R23 HL3

HF ✓

RoHS ✓



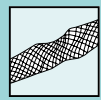
Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPAV01.5	1.5	0.40	6.0	1.6	8.0	Black (BK)	30 m	161-44000
SBPAV04	4	0.60	7.8	5.0	20.0	Black (BK)	30 m	161-44100
SBPAV09	9	1.00	12.5	10.0	100.0	Black (BK)	30 m	161-44200
SBPAV016	16	1.20	16.0	20.0	150.0	Black (BK)	30 m	161-44300

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

EN 45545-2

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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
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

RoHS ✓

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGP04	2.0	7.0	Black (BK)	200 m	45	170-10400
HEGP05	3.0	9.0	Black (BK)	200 m	45	170-10500
HEGP06	4.0	11.0	Black (BK)	100 m	45	170-10600
HEGP08	5.0	12.0	Black (BK)	100 m	45	170-10800
HEGP10	7.0	15.0	Black (BK)	100 m	45	170-11000
HEGP12	8.0	17.0	Black (BK)	100 m	45	170-11200
HEGP15	10.0	20.0	Black (BK)	100 m	45	170-11500
HEGP20	14.0	26.0	Black (BK)	50 m	45	170-12000
HEGP25	18.0	34.0	Black (BK)	50 m	45	170-12500
HEGP30	20.0	40.0	Black (BK)	50 m	45	170-13000
HEGP40	30.0	50.0	Black (BK)	50 m	45	170-14000
HEGP50	40.0	66.0	Black (BK)	50 m	45	170-15000

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**

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



Flame-retardant polyester braided sleeving

Helagaine HEGPETFR

This sleeve is particularly designed for abrasion protection of bundles of electrical cables. Helagaine HEGPETFR is therefore particularly recommended in applications such as public transport, aircraft industry, telecommunications, underground cables, etc.

Features and benefits

- Made of sturdy polyester
- Self-extinguishing
- Highly flexible
- Easy to apply over irregular shapes
- Good abrasion resistance



Helagaine HEGPETFR braided sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Melting Point	+250 °C
EN 45545-2 Classification	R22 HL2, R23 HL3



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Flammability	Tools	Article-No.
HEGPETFR03	2.0	5.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B	45	170-81000
HEGPETFR04	3.0	7.0	Black with Grey Identification Yarn (BKIDGY)	200 m	FMVSS 302, Type B	45	170-81001
HEGPETFR05	4.0	9.0	Black with Grey Identification Yarn (BKIDGY)	200 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81002
HEGPETFR06	5.0	11.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81003
HEGPETFR08	7.0	13.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81004
HEGPETFR10	9.0	15.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81005
HEGPETFR12	11.0	17.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81006
HEGPETFR15	13.0	20.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81007
HEGPETFR20	18.0	25.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81008
HEGPETFR25	22.0	30.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81009
HEGPETFR30	27.0	40.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81010
HEGPETFR40	35.0	50.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81011
HEGPETFR50	45.0	60.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81012

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.

EN 45545-2



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Self-closing, flame-retardent polyester sleeving

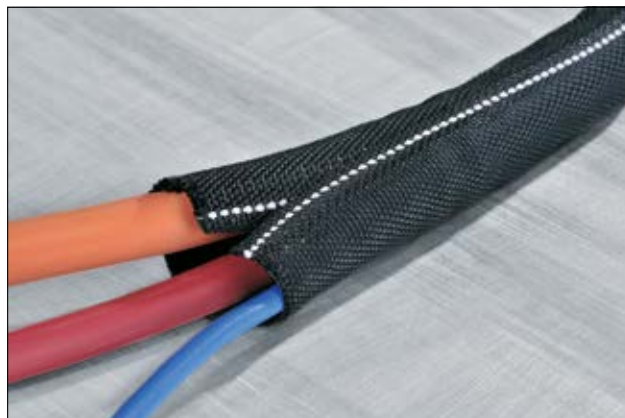
Helagaine Twist-In-FR

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
Twist-In-FR 13	10.0	13.0	Black with White Identification Yarn (BKIDWH)	50 m	45	170-01102
Twist-In-FR 19	16.0	19.0	Black with White Identification Yarn (BKIDWH)	25 m	45	170-01104
Twist-In-FR 25	19.0	25.0	Black with White Identification Yarn (BKIDWH)	25 m	45	170-01105
Twist-In-FR 29	25.0	29.0	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01106
Twist-In-FR 32	29.0	32.0	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01107
Twist-In-FR 38	32.0	38.0	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01108
Twist-In-FR 50	38.0	50.0	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01109

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.

EN 45545-2

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, EMI protective sleeving

Helagaine Twist-In-EMIZ

Helagaine Twist-In-EMIZ is used to bundle and protect cables against ElectroMagnetic Interferences (EMI). Designed specifically for the railway industry, Twist-In-EMIZ can also be used in many other sectors, such as the naval and automotive industries.

Features and benefits

- Self-closing sleeve made of tinned copper and polyester monofilament
- High-performance electromagnetic protection thanks to its patented System Z
- Its EMC shielding capabilities (> 60 dB) provide highly effective attenuation of electromagnetic interference, protecting people and systems
- Optimal fire protection
- Very good protection against abrasion, vibration, impact and salt spray
- Certified conformity with railway standard EN45545-2: R22 HL3, R23 HL3
- Lightweight, repositionable and very flexible
- Quick and easy installation
- Allows for inspection, maintenance and retro-fitting
- For effective EMI protection, we recommend grounding at both ends, ideally with 360° shielding, on metal connectors



Twist-In-EMIZ shielding cables from electromagnetic interference (EMI).

MATERIAL	Tin-plated copper (SNCU), Polyester (PET)
Operating Temperature	-65 °C to +150 °C
EMI requirements	Tested from 10 kHz to 100 MHz according to IEC 62153-4-3 (triaxial method) Results on request
EN 45545-2 Classification	R22 HL3, R23 HL3

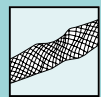


TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
Twist-In-EMIZ-05	1.0	5.0	Metal (ML)	100 m	170-01250
Twist-In-EMIZ-08	5.0	8.0	Metal (ML)	100 m	170-01251
Twist-In-EMIZ-13	8.0	13.0	Metal (ML)	50 m	170-01252
Twist-In-EMIZ-19	13.0	19.0	Metal (ML)	25 m	170-01253
Twist-In-EMIZ-25	19.0	25.0	Metal (ML)	25 m	170-01254
Twist-In-EMIZ-32	25.0	32.0	Metal (ML)	15 m	170-01255
Twist-In-EMIZ-38	32.0	38.0	Metal (ML)	15 m	170-01256
Twist-In-EMIZ-50	38.0	50.0	Metal (ML)	15 m	170-01257
Twist-In-EMIZ-80	50.0	80.0	Metal (ML)	10 m	170-01258

All dimensions in mm. Subject to technical changes.

EN 45545-2

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Rodent repellent self-closing sleeving

Helagaine Twist-In-RR

Helagaine Twist-In-RR is used to bundle and protect cables and hoses against rodents and martens in demanding areas such as automotive, railways, telecoms, underground, sewage system. Helagaine Twist-In-RR is also available in practical 2 m and 3 m lengths for use in the home or workplace.

Features and benefits

- Self-closing sleeve made from glass-fibre and polyester
- Optimal protection from rodents and martens
- Optimal fire protection
- Optimal protection against abrasion, vibrations and impacts
- Provides very good protection against abrasion, UV, vibrations and impacts
- Certified conformity with railway standard EN45545-2: R22 HL3, R23 HL3
- Quick and easy installation and retro-fitting
- Lightweight
- Allows for inspection and maintenance
- Good resistance to acids and solvents
- Good resistance to UV and weathering
- Good resistance to micro-organisms



Helagaine Twist-In-RR is used to protect against rodents and martens.

MATERIAL	Polyester (PET), Glass-fibre (GF)
Operating Temperature	-70 °C to +125 °C
Melting Point	+225 °C
Flammability	FMVSS 302
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

RoHS ✓

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
Twist-In-RR-13	10.0	13.0	White (WH), Black (BK)	50 m	170-01161
Twist-In-RR-19	16.0	19.0	White (WH), Black (BK)	25 m	170-01162
Twist-In-RR-29	25.0	29.0	White (WH), Black (BK)	15 m	170-01163
Twist-In-RR-32	29.0	32.0	White (WH), Black (BK)	15 m	170-01164

All dimensions in mm. Subject to technical changes.

EN 45545-2

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Halogen-free wiring ducts

HelaDuct HTWD-HF (metric sizes)

HelaDuct HTWD-HF wiring ducts are used to route and protect wires in control panels and switching systems where there are high demands on personal or material safety in case of fire, such as in public transport, tunnels, data-processing centers or public buildings.

Features and benefits

- Excellent fire-safety characteristics according to UL94 und EN 45545-2
- Narrow slots suitable for small-diameter wires
- Smooth, burr-free edges protect installers from injury and wires from damage
- Fingers can be removed with no sharp edges at pre-notched snap-off points
- Further pre-notched snap-off point at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges
- Duct covers hold securely even in a vertical position and under vibration
- Cover is flush with side of duct, allowing for tight, contiguous placement of duct
- Base perforation according to DIN EN 50085



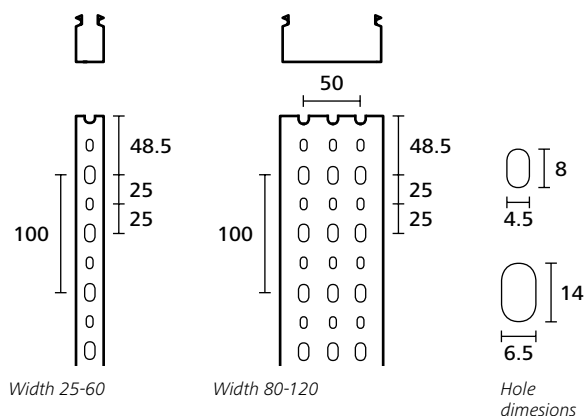
HelaDuct HTWD-HF (metric), halogenfree wiring duct.

MATERIAL	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
Colour	Grey (GY)
Length (L)	2.0 m
Operating Temperature	-25 °C to +90 °C
Flammability	UL 94 V0
EN 45545-2 Classification	R22 HL2, R23 HL2

HF ✓

RoHS ✓

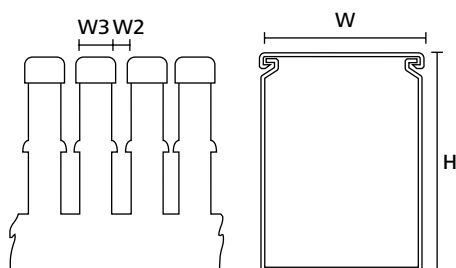
Base perforation according to DIN EN50085, HelaDuct wiring ducts HTWD-HF





Halogen-free wiring ducts

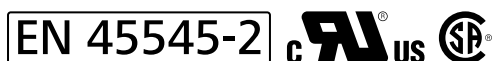
HelaDuct HTWD-HF (metric sizes)



HelaDuct Wiring ducts
HTWD-HF

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-HF-25X25	25.0	25.0	6.0	6.5	50.0 m	183-22525
HTWD-HF-25X40	25.0	40.0	6.0	6.5	48.0 m	183-22540
HTWD-HF-25X60	25.0	60.0	6.0	6.5	60.0 m	183-25060
HTWD-HF-25X80	25.0	80.0	6.0	6.5	20.0 m	183-22580
HTWD-HF-40X25	40.0	25.0	6.0	6.5	48.0 m	183-24025
HTWD-HF-40X40	40.0	40.0	6.0	6.5	50.0 m	183-24040
HTWD-HF-40X60	40.0	60.0	6.0	6.5	40 m	183-24060
HTWD-HF-40X80	40.0	80.0	6.0	6.5	20.0 m	183-24080
HTWD-HF-40x100	40.0	100.0	6.0	6.5	20 m	183-24100
HTWD-HF-60X40	60.0	40.0	6.0	6.5	40 m	183-26040
HTWD-HF-60X60	60.0	60.0	6.0	6.5	24.0 m	183-26060
HTWD-HF-60X80	60.0	80.0	6.0	6.5	20.0 m	183-26080
HTWD-HF-60X100	60.0	100.0	6.0	6.5	12.0 m	183-26010
HTWD-HF-80X40	80.0	40.0	6.0	6.5	20.0 m	183-28040
HTWD-HF-80X60	80.0	60.0	6.0	6.5	20.0 m	183-28060
HTWD-HF-80X80	80.0	80.0	6.0	6.5	12.0 m	183-28080
HTWD-HF-80X100	80.0	100.0	6.0	6.5	10.0 m	183-28010
HTWD-HF-100X40	100.0	40.0	6.0	6.5	20.0 m	183-22040
HTWD-HF-100X60	100.0	60.0	6.0	6.5	16.0 m	183-21060
HTWD-HF-100X80	100.0	80.0	6.0	6.5	12.0 m	183-21080
HTWD-HF-100X100	100.0	100.0	6.0	6.5	8.0 m	183-21010
HTWD-HF-120X60	120.0	60.0	6.0	6.5	12.0 m	183-21260
HTWD-HF-120X80	120.0	80.0	6.0	6.5	16.0 m	183-21280

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



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HTWD Halogen Free Wiring Duct

HelaDuct HTWD-HF

HelaDuct HTWD-HF wiring ducts are used to route and protect wires in control panels and switching systems where there are high demands on personal or material safety in case of fire, such as in public transport, tunnels, data-processing centers or public buildings.

Features and benefits

- Excellent fire-safety characteristics
- Narrow slots suitable for small-diameter wires
- Smooth, burr-free edges protect installers from injury and wires from damage
- Fingers can be removed with no sharp edges at pre-notched snap-off points
- Further pre-notched snap-off point at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges
- Duct covers hold securely even in a vertical position and under vibration
- Cover is flush with side of duct, allowing for tight, contiguous placement of duct
- Base perforation according to DIN EN 50085



The HelaDuct HTWD-HF halogen-free wiring ducts meet the highest requirements of fire safety.

MATERIAL	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
Operating Temperature	-25 °C to +90 °C
Flammability	UL 94 V0
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

LFH ✓

RoHS ✓

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Colour	Article-No.
HTWD-HF-25X25	25.0	25.0	5.0	7.5	48.0 m	GY	183-12525
HTWD-HF-25X37.5	25.0	37.5	5.0	7.5	54 m	GY	183-12537
HTWD-HF-25X50	25.0	50.0	5.0	7.5	44 m	GY	183-12550
HTWD-HF-25X75	25.0	75.0	5.0	7.5	36 m	GY	183-22575
HTWD-HF-37.5X37.5	37.5	37.5	5.0	7.5	40 m	GY	183-13737
HTWD-HF-37.5X50	37.5	50.0	5.0	7.5	32.0 m	GY	183-13750
HTWD-HF-37.5X75	37.5	75.0	5.0	7.5	24.0 m	GY	183-13775
HTWD-HF-50X37.5	50.0	37.5	5.0	7.5	32.0 m	GY	183-05037
HTWD-HF-50X50	50.0	50.0	5.0	7.5	42 m	GY	183-15050
HTWD-HF-50X75	50.0	75.0	5.0	7.5	28.0 m	GY	183-15075
HTWD-HF-75X50	75.0	50.0	5.0	7.5	28.0 m	GY	183-17550
HTWD-HF-75X75	75.0	75.0	5.0	7.5	24.0 m	GY	183-17575
HTWD-HF-100X50	100.0	50.0	5.0	7.5	20.0 m	GY	183-11050
HTWD-HF-100X75	100.0	75.0	5.0	7.5	16.0 m	GY	183-11075
HTWD-HF-125X75	125.0	75.0	5.0	7.5	16.0 m	GY	183-12257

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

EN 45545-2



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Shrinkable markers "Continuous Tube", thermal transfer

TLFX – 2:1 Rail Limited Fire Hazard

TLFX is a halogen free European rail approved 2:1 heat shrink marker material supplied as a continuous tube and printable on both sides. Special material properties show low smoke propagation, density and toxicity. The tubing has been especially prepared so that print performance is excellent at all times. HellermannTyton's printer range allow users to create a high quality print. In addition it is possible to either perforate the tubing at pre-determined lengths or fully sever the markers.

Features and benefits

- Shrink ratio 2:1
- Halogen Free
- Low smoke propagation, density and toxicity
- Available in yellow or white
- Cable range 50.8 mm to 1.2 mm
- Delivery in convenient storage boxes



TLFX- high performance halogen free heat shrink tube.



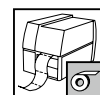
TLFX – European rail approved heat shrink marker material.

MATERIAL	Polyolefin, cross-linked (PO-X)
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+70 °C
Shrink Ratio	2:1
Recommended Ribbon Type	TTDTHOUT
Thermal Transfer Printer	TT431, TT4030DS, TT4030
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

LFH ✓

RoHS ✓



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Pack Cont.	Colour	Article-No.
TLFX24WH	2.4	1.2	0.57	144 m	White (WH)	554-51000
TLFX24YE	2.4	1.2	0.57	144 m	Yellow (YE)	554-51001
TLFX32WH	3.2	1.6	0.58	126 m	White (WH)	554-51100

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

EN 45545-2

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Shrinkable markers "Continuous Tube", thermal transfer

TLFX – 2:1 Rail Limited Fire Hazard



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Pack Cont.	Colour	Article-No.
TLFX32YE	3.2	1.6	0.58	126 m	Yellow (YE)	554-51101
TLFX48WH	4.8	2.4	0.61	108 m	White (WH)	554-51200
TLFX48YE	4.8	2.4	0.61	108 m	Yellow (YE)	554-51201
TLFX64WH	6.4	3.2	0.61	90 m	White (WH)	554-51300
TLFX64YE	6.4	3.2	0.61	90 m	Yellow (YE)	554-51301
TLFX95WH	9.5	4.8	0.66	72 m	White (WH)	554-51400
TLFX95YE	9.5	4.8	0.66	72 m	Yellow (YE)	554-51401
TLFX127WH	12.7	6.4	0.68	54 m	White (WH)	554-51500
TLFX127YE	12.7	6.4	0.68	54 m	Yellow (YE)	554-51501
TLFX190WH	19.0	9.5	0.69	30 m	White (WH)	554-51600
TLFX190YE	19.0	9.5	0.69	30 m	Yellow (YE)	554-51601
TLFX254WH	25.4	12.7	0.69	30 m	White (WH)	554-51700
TLFX254YE	25.4	12.7	0.69	30 m	Yellow (YE)	554-51701
TLFX381WH	38.1	19.0	0.70	13 m	White (WH)	554-51800
TLFX381YE	38.1	19.0	0.70	13 m	Yellow (YE)	554-51801
TLFX508WH	50.8	25.4	0.73	10 m	White (WH)	554-50900
TLFX508YE	50.8	25.4	0.73	10 m	Yellow (YE)	554-50901

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

EN 45545-2

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

Shrinkable markers "Ladder Style", thermal transfer

TLFD DS – 2:1 Rail Limited Fire Hazard, fluid resistant "Ladder Style"

TLFD DS is an innovative 2:1 heat shrink marker which is halogen free, low fire hazard and fluid resistant. This rail and EN approved material is supplied pre-cut and formatted into a convenient "ladder" system. The TLFD DS marker's material properties are ideal for applications where fire protection is of great importance. TLFD DS shows low smoke propagation, density and toxicity and is also ideal for applications where resistance to organic fluids, common fuels, lubricants and solvents properties are required.

The 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. The tubing has been especially prepared so that the print performance is excellent at all times using HellermannTyton's printer range.

Features and benefits

- Shrink ratio 2:1
- Halogen free and fluid resistant
- Low smoke propagation and toxicity
- Fluid resistant
- "Ladder Style" format for ease of use
- Available in yellow and white
- 50 mm and 25 mm pre-cut markers as standard



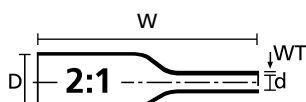
TLFD DS shrinkable markers for more safety and clarity in the switchboard.

MATERIAL	Polyolefin, cross-linked (PO-X)
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+120 °C
Shrink Ratio	2:1
Recommended Ribbon Type	TTDTHOUT
Thermal Transfer Printer	TT431, TT4030DS, TT4030
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

LFH ✓

RoHS ✓



TYPE	Supplied Ø D min.	Recov. Ø d max.	Width (W)	Wall (WT)	Pack Cont.	Colour	Article-No.
TLFD24DS-2X25WH	2.59	1.2	25.0	0.49	10000 pcs.	White (WH)	533-65001
TLFD24DS-2X25YE	2.59	1.2	25.0	0.49	10000 pcs.	Yellow (YE)	533-65019
TLFD24DS-1X50WH	2.59	1.2	50.0	0.49	5000 pcs.	White (WH)	533-65000
TLFD24DS-1X50YE	2.59	1.2	50.0	0.49	5000 pcs.	Yellow (YE)	533-65018
TLFD32DS-2X25WH	3.41	1.6	25.0	0.51	10000 pcs.	White (WH)	533-65003
TLFD32DS-2X25YE	3.41	1.6	25.0	0.51	10000 pcs.	Yellow (YE)	533-65021
TLFD32DS-1X50WH	3.41	1.6	50.0	0.51	5000 pcs.	White (WH)	533-65002
TLFD32DS-1X50YE	3.41	1.6	50.0	0.51	5000 pcs.	Yellow (YE)	533-65020
TLFD48DS-2X25WH	5.01	2.4	25.0	0.54	10000 pcs.	White (WH)	533-65005
TLFD48DS-2X25YE	5.01	2.4	25.0	0.54	10000 pcs.	Yellow (YE)	533-65023
TLFD48DS-1X50WH	5.01	2.4	50.0	0.54	5000 pcs.	White (WH)	533-65004

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

EN 45545-2

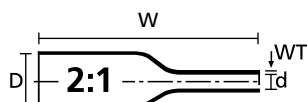
EN 50343

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



Shrinkable markers "Ladder Style", thermal transfer

TLFD DS – 2:1 Rail Limited Fire Hazard, fluid resistant
"Ladder Style"



TYPE	Supplied Ø D min.	Recov. Ø d max.	Width (W)	Wall (WT)	Pack Cont.	Colour	Article-No.
TLFD48DS-1X50YE	5.01	2.4	50.0	0.54	5000 pcs.	Yellow (YE)	533-65022
TLFD64DS-2X25WH	6.64	3.2	25.0	0.56	6000 pcs.	White (WH)	533-65007
TLFD64DS-2X25YE	6.64	3.2	25.0	0.56	6000 pcs.	Yellow (YE)	533-65025
TLFD64DS-1X50WH	6.64	3.2	50.0	0.56	3000 pcs.	White (WH)	533-65006
TLFD64DS-1X50YE	6.64	3.2	50.0	0.56	3000 pcs.	Yellow (YE)	533-65024
TLFD95DS-2X25WH	9.88	4.8	25.0	0.59	5000 pcs.	White (WH)	533-65009
TLFD95DS-2X25YE	9.88	4.8	25.0	0.59	5000 pcs.	Yellow (YE)	533-65027
TLFD95DS-1X50WH	9.88	4.8	50.0	0.59	2500 pcs.	White (WH)	533-65008
TLFD95DS-1X50YE	9.88	4.8	50.0	0.59	2500 pcs.	Yellow (YE)	533-65026
TLFD127DS-2X25WH	13.14	6.4	25.0	0.60	3000 pcs.	White (WH)	533-65011
TLFD127DS-2X25YE	13.14	6.4	25.0	0.60	3000 pcs.	Yellow (YE)	533-65029
TLFD127DS-1X50WH	13.14	6.4	50.0	0.60	1500 pcs.	White (WH)	533-65010
TLFD127DS-1X50YE	13.14	6.4	50.0	0.60	1500 pcs.	Yellow (YE)	533-65028
TLFD190DS-2X25WH	19.70	9.6	25.0	0.62	3000 pcs.	White (WH)	533-65013
TLFD190DS-2X25YE	19.70	9.6	25.0	0.62	3000 pcs.	Yellow (YE)	533-65031
TLFD190DS-1X50WH	19.70	9.6	50.0	0.62	1500 pcs.	White (WH)	533-65012
TLFD190DS-1X50YE	19.70	9.6	50.0	0.62	1500 pcs.	Yellow (YE)	533-65030
TLFD254DS-2X25WH	26.25	12.7	25.0	0.63	2000 pcs.	White (WH)	533-65015
TLFD254DS-2X25YE	26.25	12.7	25.0	0.63	2000 pcs.	Yellow (YE)	533-65033
TLFD254DS-1X50WH	26.25	12.7	50.0	0.63	1000 pcs.	White (WH)	533-65014
TLFD254DS-1X50YE	26.25	12.7	50.0	0.63	1000 pcs.	Yellow (YE)	533-65032
TLFD381DS-2X25WH	39.29	19.1	25.0	0.64	1000 pcs.	White (WH)	533-65017
TLFD381DS-2X25YE	39.29	19.1	25.0	0.64	1000 pcs.	Yellow (YE)	533-65035
TLFD381DS-1X50WH	39.29	19.1	50.0	0.64	500 pcs.	White (WH)	533-65016
TLFD381DS-1X50YE	39.29	19.1	50.0	0.64	500 pcs.	Yellow (YE)	533-65034

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

EN 45545-2 **EN 50343**

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Identification tags for cable bundle "Ladder Style", thermal transfer

TAGLF – Rail - Limited Fire Hazard Tiptags

TAGLF is a halogen free cable marker for mass transit applications specifically in the railway industry or for all areas where limited fire hazard material is needed. TAGLF's material properties show low smoke propagation, density and toxicity. They are supplied pre-cut and have been formatted into a convenient "ladder" system. Simply print and press out the required TAGLF and apply with cable ties, they are also suitable for retrofit purposes.

Print with HellermannTyton's premium range of thermal printers and ribbons or a laser beam marking device.

Features and benefits

- Limited fire hazard cable marker
- Halogen free
- For larger cables and wires, bundles
- Thermal transfer or laser beam printable
- Good mechanical strength and highly flexible
- Delivered on reel in convenient storage boxes



Limited fire hazard identification tags TAGLF.

MATERIAL	Polyolefin, cross-linked (PO-X)
Operating Temperature	-40 °C to +105 °C
Flammability	ASTM D635
Recommended Ribbon Type	TTDTHOUT
Thermal Transfer Printer	TT431, TT4030
EN 45545-2 Classification	R22 HL3, R23 HL3

HF ✓

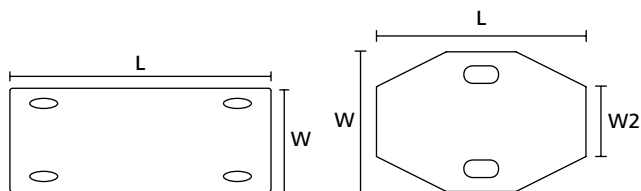
LFH ✓

RoHS ✓



Identification tags for cable bundle "Ladder Style", thermal transfer

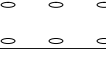
TAGLF – Rail - Limited Fire Hazard Tiptags



Identification tag with four fixing holes.

Identification tag with diamond shape.



TYPE	Drawing	Length (L)	Width (W)	Width (W2)	Pack Cont.	Colour	Article-No.	
TAGLF20X51-6		51.5	20.4	-	1000 pcs.	White (WH)	556-83023	
		51.5	20.4	-	1000 pcs.	Yellow (YE)	556-83024	
TAGLF10X51-4		51.5	10.4	-	2000 pcs.	Blue (BU)	556-83016	
		51.5	10.4	-	2000 pcs.	Green (GN)	556-83015	
		51.5	10.4	-	2000 pcs.	Red (RD)	556-83017	
		51.5	10.4	-	2000 pcs.	White (WH)	556-83013	
		51.5	10.4	-	2000 pcs.	Yellow (YE)	556-83014	
		TAGLF20X51-4	51.5	20.4	-	1000 pcs.	Blue (BU)	556-83021
TAGLF20X51-6		51.5	20.4	-	1000 pcs.	Blue (BU)	556-83026	
TAGLF20X51-4		51.5	20.4	-	1000 pcs.	Green (GN)	556-83020	
TAGLF20X51-6		51.5	20.4	-	1000 pcs.	Green (GN)	556-83025	
TAGLF20X51-4		51.5	20.4	-	1000 pcs.	Red (RD)	556-83022	
TAGLF20X51-6		51.5	20.4	-	1000 pcs.	Red (RD)	556-83027	
TAGLF20X51-4		51.5	20.4	-	1000 pcs.	White (WH)	556-83018	
		51.5	20.4	-	1000 pcs.	Yellow (YE)	556-83019	
TAGLF12X60-4			60.0	11.6	-	1000 pcs.	Blue (BU)	556-83030
			60.0	11.6	-	1000 pcs.	Green (GN)	556-83032
			60.0	11.6	-	1000 pcs.	Red (RD)	556-83031
			60.0	11.6	-	1000 pcs.	White (WH)	556-83028
			60.0	11.6	-	1000 pcs.	Yellow (YE)	556-83029
TAGLF15X75-4		75.0	14.4	-	1000 pcs.	Blue (BU)	556-83035	
		75.0	14.4	-	1000 pcs.	Green (GN)	556-83037	
		75.0	14.4	-	1000 pcs.	Red (RD)	556-83036	
		75.0	14.4	-	1000 pcs.	White (WH)	556-83033	
		75.0	14.4	-	1000 pcs.	Yellow (YE)	556-83034	
TAGLF25X75-4		75.0	24.3	-	500 pcs.	Blue (BU)	556-80574	
		75.0	24.3	-	500 pcs.	Green (GN)	556-80576	
		75.0	24.3	-	500 pcs.	Red (RD)	556-80575	
		75.0	24.3	-	500 pcs.	White (WH)	556-80544	
		75.0	24.3	-	500 pcs.	Yellow (YE)	556-80545	

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

EN 45545-2 **ASTM** **MIL** **SAE**

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Identification tags for cable bundle "Ladder Style", thermal transfer

TAGLF – Rail - Limited Fire Hazard Tiptags

TYPE	Drawing	Length (L)	Width (W)	Width (W2)	Pack Cont.	Colour	Article-No.
TAGLF20X30-2		30.0	20.0	11.0	1000 pcs.	Blue (BU)	556-83054
		30.0	20.0	11.0	1000 pcs.	Green (GN)	556-83053
		30.0	20.0	11.0	1000 pcs.	Red (RD)	556-83055
TAGLF20x30-2		30.0	20.0	11.0	1000 pcs.	White (WH)	556-83038
		30.0	20.0	11.0	1000 pcs.	Yellow (YE)	556-83012

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



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Labelling software

TagPrint Pro 5

TagPrint Pro 5 is the powerful software for the professional design and automated printing of labels, cable labelling, shrink sleeves and signs - perfectly matched to all HellermannTyton printing systems. The new template wizard makes it particularly quick to get started: select product, customise layout, add elements - done. TagPrint Pro impresses with a wide range of intelligent functions for efficient, customised and data-based labelling solutions - intuitive to use and easy to integrate into existing work processes.

TagPrint Pro 5 is the complete solution for professional, automated labelling.

Features and benefits

- Intuitive user interface with a modern design
- Innovative template wizard for a quick start
- Text, graphic and barcode functions
- Open Excel files - no import needed
- New file format for combining layout and data
- Printing on multiple devices simultaneously
- Project explorer for automated printing processes
- Multilingual user interface

Find out more about TagPrint Pro here:
www.HellermannTyton.com/tagprint-pro



Printing Software TagPrint Pro 5. Effortless labelling, powerful results.



One-step printing of label jobs to one or more printers simultaneously.

System Requirements	IBM compatible PC Microsoft Windows 10, Windows 11 4 GB of RAM (recommended) 160 MB of available hard-disk space
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TYPE	Description	Article-No.
TagPrintPro5-Upgrade-EMEA	Single-user license - Upgrade from TagPrint Pro 4.0	556-00065

Subject to technical changes.



Thermal transfer printer

TT4030, High volume printing

HellermannTyton's premium printer TT4030 is specifically designed for medium and heavy duty industrial applications. The 300 dpi print head fulfils all standard requirements for printing bar codes, warning signs, logos and written information. Optional premium quality accessories such as a perforator and cutter are designed to work seamlessly with the printer and will suit the most demanding needs.

Printing high definition graphics such as 2d barcodes, standard bar codes, numbers and text on adhesive labels, thermo plastics such as heat shrink and cable markers (Tiptags) is easily done.

A colour LCD Touchscreen with modern user interface helps intuitive operation.

Creation of professional looking industrial identification is simplified by the use of HellermannTyton's label creation software TagPrint Pro.

Whether in stand-alone mode, as a PC application or in a network - the robust TT4030 printers can meet every requirement.

Features and benefits

- High volume single sided printing
- Print on HellermannTyton heatshrink tubing, cable markers and labels
- Uses standard 300 m ribbons
- Barcodes: standard and 2D
- Print speed up to 300 mm/s (30 mm/s recommended for ladder style products and tubing)
- Multiple language selection
- Windows drivers: 32 / 64 bit for Windows XP, Windows Vista, Windows 7, 8, 10, 11



TT4030 thermal transfer printer for high volumes.

Print Method	thermal transfer print
Print Head Type	300 dpi, flat type
Print Speed	up to 300mm/s
Max. Print Width	105.70 mm
Print Material Height Max (metric)	2000 mm
Interfaces	RS232 C, USB 2.0, Ethernet 10/100 Base T
Supported Barcodes	Standard, 2D
Printer Memory	256 MB RAM
Dimensions W x H x D	252mm x 288mm x 460mm
Weight	11.38 kg

RoHS ✓

TYPE	Description	Article-No.
TT4030	Thermal transfer printer TT4030	556-04037
TT4030 Printhead	Printhead for TT4030	556-04041
Printer Roller TT4030/TT4000+	Printer Roller for TT4030/TT4000+	556-04005
S4030 Cutter	S4030 Cutter for TT4030	556-04050
P4030 Perforator	Perforator for TT4030	556-04051
TT External Reel Holder	External Reel Holder	556-00451

Subject to technical changes.



Thermal transfer ribbons for

Adhesive Labels

The thermal transfer print technology is based on heating up certain dots in the print head. This transfers the ink very precisely from the ribbon onto the surface of the printed material. All HellermannTyton ribbons consist of a special resin composition to maximise print performance. In combination with HellermannTyton printers the ribbons ensure the highest of print quality on all HellermannTyton thermal printable identification materials.

Features and benefits

- Thermal transfer ribbons for highest quality and performance of printed labels
- Ribbons are specifically designed to maximise print performance for the recommended material

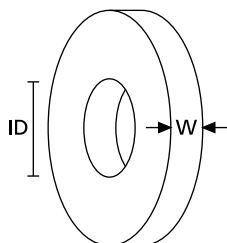


Easy application of ribbons on HellermannTyton thermal transfer printers.



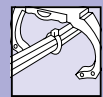
Ribbons for printing on adhesive labels.

ID: The standard inside core diameter for all the ribbons is 25.4 mm.



TYPE	Recommended Material	Colour	Width (W)	Reel Length	Article-No.
TT822OUT 60MM	323, 892, 934, 1203, 1204, 1206, 1211, 1213, 1221, 1232, 1251	Black (BK)	60.0	300 m	556-00111
TT822OUT 110MM	323, 892, 1203, 1204, 1206, 1211, 1213, 1220, 1221, 1232, 1251	Black (BK)	110.0	300 m	556-00101
TT932DOOUT 85MM	323, 896	Black (BK)	85.0	300 m	556-00117
TT932DOOUT 110MM	323, 896	Black (BK)	110.0	300 m	556-00118
TT122OUT 60MM	1220, 1221	Black (BK)	60.0	300 m	556-00060
TT122OUT 110MM	1220, 1221	Black (BK)	110.0	300 m	556-00061
TTRR 110	1220, 1221	Red (RD)	110.0	300 m	556-00208

All dimensions in mm. Subject to technical changes.



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.



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

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



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
Autotool_CPK_hybrid_Battery_Set-UK	Autotool CPK hybrid T18RA	3.184 kg	106-66001
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.



Automatic bundling up to Ø 20 mm

Cable ties for Autotool 2000 systems

The inside-serrated cable ties are designed for use specifically in the automatic cable tying systems. The Autotool 2000 CPK is ideally suited for handling high volumes applications in wire harness facilities, automotive and industrial companies as well as the packaging sector.

Features and benefits

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



Cable ties for Autotool CPK hybrid.

MATERIAL	Polyamide 6.6, heat stabilised (PA66HS)	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		

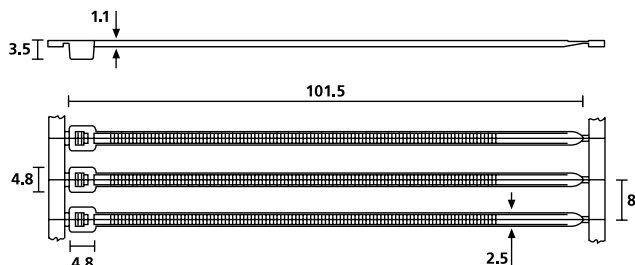
HF ✓

RoHS ✓

HF ✓

LFH ✓

RoHS ✓



Bandolier T18RA

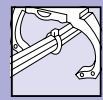
TYPE	Bundle Ø max.	N	Colour	Material	Pack Cont.	Article-No.
T18RA50	20.0	80	Black (BK)	PA66HSW	2000 pcs.	120-40020
T18RA3500	20.0	80	Black (BK)	PA66HSW	3500 pcs.	120-50010
	20.0	80	Natural (NA)	PA46	3500 pcs.	120-46009
T18RA50	20.0	80	Natural (NA)	PA66HS	2000 pcs.	120-40019
T18RA3500	20.0	80	Natural (NA)	PA66HS	3500 pcs.	120-50009

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. More colours on request. Please contact us.

Halogen-free according to the interdictions of the GADSL list and compulsory registration of the SVHC list.



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



Waste-free 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 waste-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

- Electrically operated cable tying system (Power pack ATS flex)
- Power supply through Power pack ATS flex - Input: 240/150 V a.c., 50/60 Hz; Output: 24 V d.c., max. 100 W
- High quality, waste-free bundling up to Ø 100 mm with flush cut off
- Jaws with diameters of 30, 50 and 80 mm - included in delivery
- 100 mm jaw size solution as accessory on request
- Cycle time 1.1-2.4 seconds depending on bundle diameter
- Bundle diameter mechanically detected
- Integration into Bench mount kit ATS (vertical or horizontal) for stationary use or Overhead suspension ATS for flexible use possible
- Integration into fully automated production lines possible
- Foot part bundling with custom jaw design Ø 50 mm



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



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

Power Supply	Electrically operated
Cycle Time	1.1-2.4 sec. depending on bundle diameter
Tension Setting	Adjustable

RoHS ✓

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.

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



Waste-free 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.

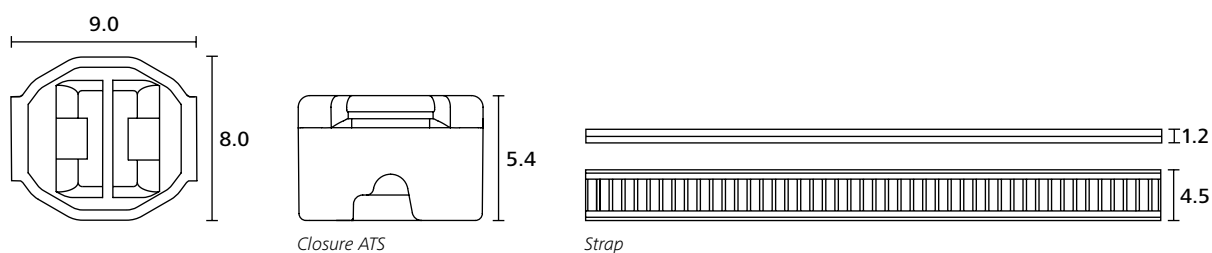
The materials are particularly appropriate for high volume bundling applications in cable assembly, automotive, industrial and packaging applications.

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.



TYPE	Description	Bundle Ø max.	N	Colour	Material	Pack Cont.	Article-No.
Closures_Black_ATS	Closures Black ATS	100.0	220	Black (BK)	PA6V0	5000 pcs.	102-60210
Strap_Black_ATS	Strap Black ATS	100.0	220	Black (BK)	PA6V0	500 m	102-60110

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)

EN 45545-2

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



Battery-powered tool for tensioning and cutting cable ties

ProCut

The ProCut battery powered cable tie tool system automatically tensions and cuts T50-T250 and wide strap cable ties. A single pull of the trigger does all the work. Its 16 tension settings ensure precision results. Designed for professionals with an ergonomic, soft-grip handle and low-force trigger to reduce hand strain. A secondary trigger button on the rear assists in hard-to-reach applications. The ProCut can produce up to 2,000 cycles per charge utilizing the included Metabo CAS battery (also used on our CPK Hybrid tool) and charger.

Features and benefits

- Cordless operation means less hand strain and no cord to get in the way.
- Auto calibration after every cycle means exceptionally consistent performance.
- Flush cut nose piece and blade ensure clean, safe cuts.
- Included Metabo CAS 2.0 Ah battery and charger are compatible with several other tool brands.



ProCut: battery-powered application tool for cable tying in heavy-duty.

TYPE	Description	Strap Width max.	Strap Thickness max.	Weight	Article-No.
ProCut 9 no battery	ProCut	13.5	2.0	1.149 kg	104-10010
ProCut_Battery_Set	ProCut Set (incl. 2 batteries and 1 charger)	13.5	2.0	5.612 kg	104-11000
ProCut_Battery_Set_UK	ProCut Set UK (incl. 2 batteries and 1 charger)	13.5	2.0	5.612 kg	104-11001
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

All dimensions in mm. Subject to technical changes.



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
EVO7iSP	4.8	1.5	0.279 kg	110-77002

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
EVO9iSP	13.5	2.0	0.369 kg	110-88002
EVO9iHT	13.5	2.0	0.37 kg	110-88003

All dimensions in mm. Subject to technical changes.



Pneumatic tensioning tool with ergonomic design

EVO7p up to 4.8 mm strap width

Powered by compressed air at a pressure of up to 6 bars, the EVO7p is most beneficial in mass production environments, whether on the assembly line or in cable fabrication.

Features and benefits

- Unique levels of repeatability and accuracy
- High application speed and low maintenance
- Improved compressed air supply for faster tensioning piston movement
- Shorter processing time and greater volume of connecting tie application
- Ergonomic design
- Automatic ejection of cut-off cable tie end
- Ideally designed to apply heavy-duty ties (T50-T250), clamp and button head ties
- Low weight, comfortable grip and easy trigger depression



Air Supply	non oiled, oiled
MATERIAL	Various (DIV)
Air Pressure (min.)	3 Bar
Air Pressure (max.)	6 Bar
Hose Internal Diameter	4.0 mm

RoHS ✓

TYPE	Description	Strap Thickness max.	Weight	Article-No.
EVO7p_with_counting_function	-	1.5	0.36 kg	110-03710
EVO7p	EVO7p	1.5	0.36 kg	110-03700

All dimensions in mm. Subject to technical changes.

Manual Processing Tools

CALTOOL for calibration of EVO family

The CALTOOL serves for the fine or readjustment of the EVO family.

Features and benefits

- The factory setting (setting 0-8) of the EVO family can be changed



CALTOOL for calibration of EVO family.

TYPE	Description	Weight	Article-No.
EVO Calibration Tool	Calibration tool	0.032 kg	110-70089

Subject to technical changes.



Manual tensioning tool for KR-Series

EVO KR

The EVO KR is designed to apply KR cable ties. Due to its special design the application is secure and offers a high vibration resistance. The EVO KR tool crimps the glass-fibre-reinforced locking pin of the KR seal and leads to plastic deformation of the tie ends. This produces a very proof permanent connection. One reason for customers, especially in the railway and automotive industry, to take this system as a preferred solution.

Features and benefits

- One-hand operation
- Sideway insertion of the cable tie
- Lightweight plastic housing
- One front plate to apply 6 mm and 8 mm KR cable ties
- Tension adjustment and possibility to calibrate EVO KR tool



The manual tensioning tool EVO KR for KR-Series cable ties.

TYPE	For Ties	Strap Width max.	Weight	Article-No.
EVO-KR	KR6, KR8	8.0	0.537 kg	121-68000

All dimensions in mm. Subject to technical changes.



Manual tensioning tool for KR-Series

KR6/8

Application tool KR6/8 crimps the glass-fibre-reinforced locking pin of the KR seal and leads to plastic deformation of the tie ends. This produces a very proof permanent connection.

Features and benefits

- Tough metal tool for applying KR cable ties only
- For tensioning, fixing and cutting KR cable ties
- Simply change the front plate to apply 6 mm or 8 mm straps



The manual tensioning tool KR6/8 for KR-Series cable ties.

TYPE	For Ties	Strap Width max.	Weight	Article-No.
KR6/8	KR6, KR8	8.0	0.69 kg	121-00680

All dimensions in mm. Subject to technical changes.



Pneumatic tensioning tool for KR8-Series

KR8PNSE

Application tool KR8PNSE crimps the glass-fibre-reinforced locking pin of the KR seal and leads to plastic deformation of the tie ends. This produces a very proof permanent connection.

Features and benefits

- Pneumatic tool with tough metal housing
- For applying KR8 cable ties only
- For tensioning, fixing and automatic cutting KR8 cable ties
- Tension force can be adapted depending on air pressure
- Holding ring for a balancer



The pneumatic tensioning tool KR8PNSE for KR8-Series cable ties.

Air Supply	non oiled, oiled
Air Pressure (min.)	3 Bar
Air Pressure (max.)	4 Bar
Hose Internal Diameter	6.0 mm
L x W x H	320 mm x 50 mm x 210 mm

RoHS ✓

TYPE	For Ties	Strap Width max.	Weight	Article-No.
KR8PNSE	KR8	8.0	1.537 kg	121-00889

All dimensions in mm. Subject to technical changes.



Manual cutting tool for plastic ties

EVO cut

The EVO cut is a cutting tool for plastic ties, which ensures the cut of the strap or head while preserving wires and harnesses from being damaged.

This applies to flexible cables, bundles and lines as well as rigid bundled goods. Its use is recommended in many applications for which wires and harnesses have a high value added. Especially for sensitive cable harnesses the use of the EVO cut is recommended.

The cutting tool is made of a lightweight plastic housing and an ergonomic, non-slip handle for a comfortable and secure grip.

The tool includes eight interchangeable nosepieces for plastic cable ties and KR-Series ties of varying widths and thicknesses.

Features and benefits

- Cutting tool for plastic ties and KR-Series
- Tie can be cut off at any part of the strap or the cable tie head
- Ensures the cable isolation from being damaged
- Light-weighting plastic housing, ergonomic design
- Single-handed operation
- Includes eight interchangeable nosepieces for respective cable tie width, thickness and head size



Zip tie cutter EVO cut: Cutting tool for plastic cable ties and heads.



Zip tie cutter EVO cut: Securely removes cable ties from bundling good.



Zip tie cutter EVO cut: Nosepieces designed for secure cutting.



Secure cutting of cable tie straps with the EVO cut zip tie cutter.



Zip tie cutter EVO cut: Easily exchanged nosepieces.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
EVO_cut	8.0	2.1	0.317 kg	110-05105

All dimensions in mm. Subject to technical changes.

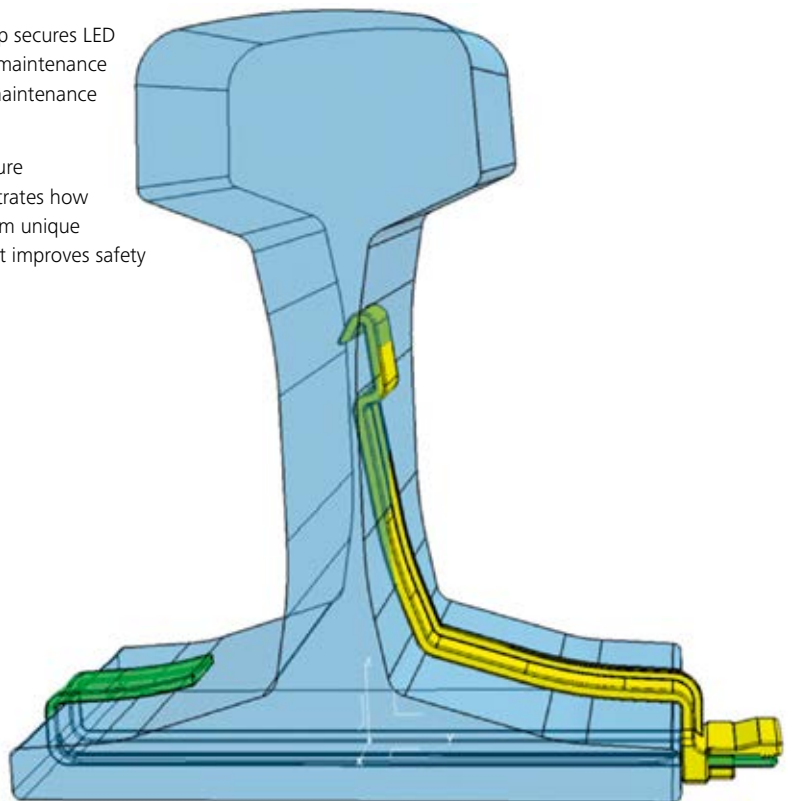


Smart guidance lighting for railway infrastructure

A practical example of our infrastructure engineering expertise is a custom rail clip developed for LED guidance lighting.

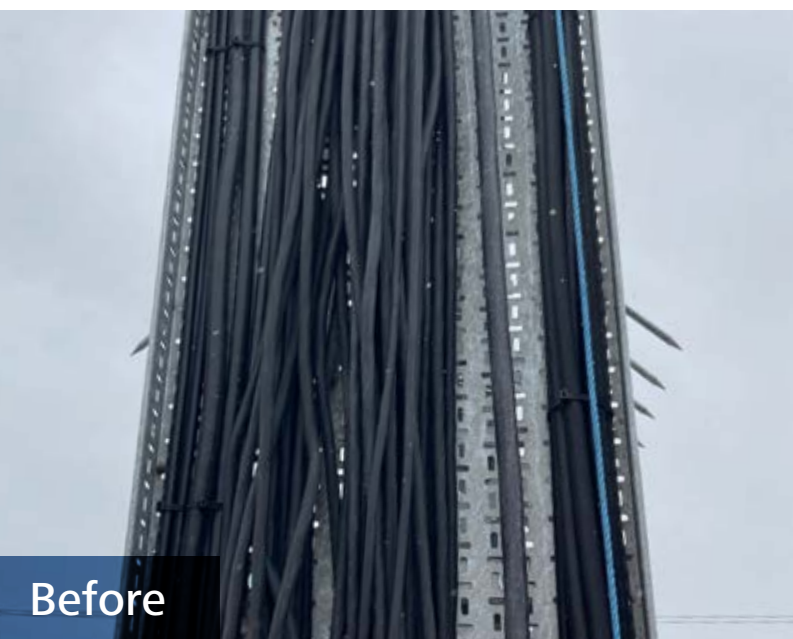
Created in partnership with a rail operator, this custom PA6 GF15 clip secures LED lighting strips beneath the rail. The solution helps guide drivers and maintenance personnel safely at night while providing additional illumination in maintenance areas, depots, tunnels and other infrastructure environments.

Designed for demanding railway applications, the clip combines secure retention with fast installation and reusable components. It demonstrates how close collaboration and application-specific engineering can transform unique infrastructure requirements into a practical, field-proven solution that improves safety and operational efficiency.

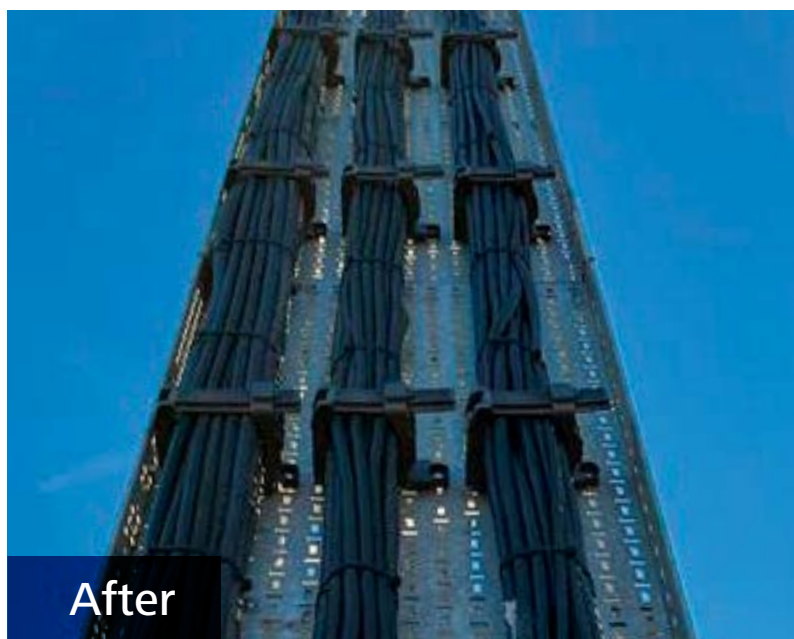


For more information please contact:

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+33 6 35 58 12 70



Before



After

Turning rail challenges into solutions

The Hinged Sliding Ratchet Clamp (HSRC) is a prime example of HellermannTyton's collaboration with rail customers to develop application-specific solutions. Created in response to the need for a more secure, maintenance-friendly cable fastening method, the HSRC has been engineered to simplify installation and provide reliable, long-term cable retention in challenging infrastructure environments.

With an integrated hinge and adjustable ratchet mechanism, the clamp can accommodate different cable quantities and diameters, and remains fully releasable and reusable. This reduces maintenance time and helps lower lifecycle costs without compromising security or durability.

Developed in close collaboration with partners in the rail industry and tested in accordance with EN 45545-2, EN 50125-3 and UL 746C, the HSRC exemplifies the transformation of customer-specific challenges into practical solutions that enhance both installation efficiency and long-term maintenance.



For more information please contact:

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Our product range for railway infrastructure

We offer a wide range of solutions to help you build and maintain railway infrastructure. We adapt to your needs, supplying products that meet your precise requirements. Whether you need to identify cables in a metro station or under extreme conditions outdoors, we can supply you with the ideal solution. Whether you need halogen-free, flame-retardant, low- or high-temperature, plastic or metal solutions, we are here to help you select the right product for your application.

	Cable Ties and Fixings Page 82
	Insulation Page 90
	Cable Protection Systems Page 96
	Electrical Installation Page 97
	Identification Systems Page 104
	Application Tooling Page 122



Cable ties with ball-lock

MBT-Series, stainless steel 304

Metal ties are ideal for all applications that require high strength, reliability and fire resistance. The MBT range of stainless steel cable ties can be used in chemical industries and on oil platforms as well as in mass transit, shipbuilding and mining industries. MBT ties are also suitable for machine building, construction and in the outside area of radio technology. Additionally MBT ties are ideal for securing lighting in theatres and exhibition halls.

Features and benefits

- Cable ties MBT, made from stainless steel 304
- Non-releasable locking feature
- Corrosion resistant
- Weather resistant
- Outstanding chemical resistance
- High temperature resistant
- Non-burning

For hard, smooth surface applications, we recommend the use of our LFPC protective channels.



Stainless steel cable ties, uncoated, MBT_SS, MBT_HS.



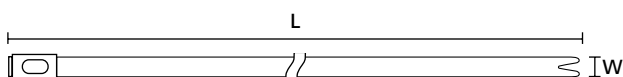
Stainless Steel Cable Ties, uncoated, MBT_XHS.

MATERIAL	Stainless Steel (SS304)
Operating Temperature	-80 °C to +538 °C
Flammability	non-burning

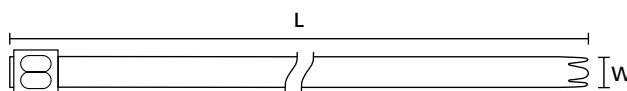
HF ✓

LFH ✓

RoHS ✓



MBT-Series 4.6 mm and 7.9 mm width



MBT-Series 12.3 mm width

TYPE	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N	Material	Pack Cont.	Tools	Article-No.
MBT5SS	4.6	127.0	12.0	25.0	900	SS304	100 pcs.	15-18	111-93058
MBT8SS	4.6	201.0	17.0	50.0	900	SS304	100 pcs.	15-18	111-93088
MBT14SS	4.6	362.0	17.0	102.0	900	SS304	100 pcs.	15-18	111-93148
MBT20SS	4.6	521.0	17.0	152.0	900	SS304	100 pcs.	15-18	111-93208
MBT14HS	7.9	362.0	17.0	102.0	2000	SS304	50 pcs.	15-18	111-94148
MBT20HS	7.9	521.0	17.0	152.0	2000	SS304	50 pcs.	15-18	111-94208
MBT33HS	7.9	838.0	17.0	254.0	2000	SS304	50 pcs.	15-18	111-94338

Recommended Tools: 15=MK9SSST, 16=MK9PSST, 17=HDT16, 18=KST-STG200. 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. Other packaging options may also be available. 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.



Cable ties with ball-lock

MBT-Series, stainless steel 316L

Metal ties are predestined for all areas with requirements for high holding force, reliability and fire resistance. The MBT range of stainless steel cable ties can be used in chemical industry and on oil platform as well as in mass transit, shipbuilding and mining industry. MBT ties are also suitable for machine building, apparatus construction and in the outside area of radio technology. Additionally MBT ties are a good solution to fix lighting in theatres and exhibition halls.

Features and benefits

- MBT cable ties made from stainless steel 316L
- Non-releasable locking feature
- Corrosion resistant
- Weather resistant
- Outstanding chemical resistance
- High temperature resistant
- Non-burning



Stainless steel cable ties, uncoated, MBT_XH.

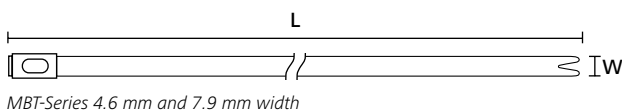
MATERIAL	Stainless Steel (SS316L)
Operating Temperature	-80 °C to +538 °C
Flammability	non-burning

HF ✓

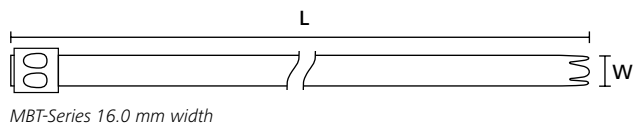
LFH ✓

RoHS ✓

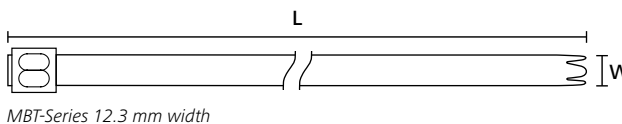
For hard, smooth surface applications, we recommend the use of our LFPC protective channels.



MBT-Series 4.6 mm and 7.9 mm width



MBT-Series 16.0 mm width



MBT-Series 12.3 mm width

TYPE	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N	Material	Pack Cont.	Tools	Article-No.
MBT5S	4.6	127.0	12.0	25.0	900	SS316L	100 pcs.	15-18	111-93059
MBT8S	4.6	201.0	12.0	50.0	900	SS316L	100 pcs.	15-18	111-93089
MBT14S	4.6	362.0	12.0	102.0	900	SS316L	100 pcs.	15-18	111-93149
MBT20S	4.6	521.0	12.0	152.0	900	SS316L	100 pcs.	15-18	111-93209
MBT14H	7.9	362.0	12.0	102.0	2000	SS316L	50 pcs.	15-18	111-94149
MBT20H	7.9	521.0	12.0	152.0	2000	SS316L	50 pcs.	15-18	111-94209
MBT27H	7.9	685.0	12.0	203.0	2000	SS316L	50 pcs.	15-18	111-94279
MBT33H	7.9	838.0	12.0	254.0	2000	SS316L	50 pcs.	15-18	111-94339
MBT14XH	12.3	362.0	12.0	102.0	2700	SS316L	50 pcs.	15-18	111-95149

Recommended Tools: 15=MK9SST, 16=MK9PSST, 17=HDT16, 18=KST-STG200. 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. Other packaging options may also be available. 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.



Cable ties with ball-lock and coating

MBT-FC-Series, stainless steel 316L

The MBT range of stainless steel cable ties can be used in the most arduous of conditions or where the additional security, strength and fire resistance of a metal fixing is required. Used in all industries from mass transit, ship building, oil rigs, mining and chemical industry, theatres and exhibition halls. In the event of a fire, cables will remain securely held in place and will not fall to block emergency exits. Fully coated ties can also be used to avoid any reflection. An important consideration for instance in the defence industry.

Features and benefits

- Fully coated MBT, made from type 316L stainless steel with polyester coating
- Non-releasable locking feature
- Coated cable tie with smooth edges
- Comfortable handling and installation
- Eliminates contact corrosion between dissimilar materials during application

For hard, smooth surface applications, we recommend the use of our LFPC protective channels.



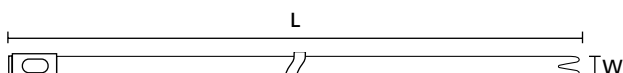
Stainless steel cable ties, coated, MBT_SFC, MBT_HFC.

MATERIAL	Stainless Steel (SS316L), Polyester, saturated (SP)
Operating Temperature	-80 °C to +538 °C
Operating Temperature Coating	-50 °C to +150 °C

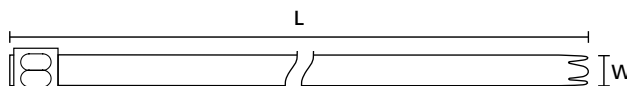
HF ✓

LFH ✓

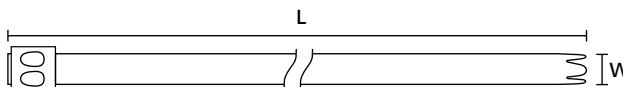
RoHS ✓



MBT-Series 4.6 mm and 7.9 mm width



MBT-Series 12.3 mm width



MBT-Series 16.0 mm width

TYPE	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N	Material	Pack Cont.	Tools	Article-No.
MBT5SFC	4.6	127.0	15.0	25.0	540	SS316L	100 pcs.	15-18	111-00288
MBT8SFC	4.6	201.0	17.0	50.0	540	SS316L	100 pcs.	15-18	111-00289
MBT14SFC	4.6	362.0	17.0	102.0	540	SS316L	100 pcs.	15-18	111-00290
MBT20SFC	4.6	521.0	17.0	152.0	540	SS316L	100 pcs.	15-18	111-00291
MBT8HFC	7.9	201.0	17.0	50.0	1020	SS316L	50 pcs.	15-18	111-00294
MBT14HFC	7.9	362.0	17.0	102.0	1020	SS316L	50 pcs.	15-18	111-00295
MBT20HFC	7.9	521.0	17.0	152.0	1020	SS316L	50 pcs.	15-18	111-00296
MBT27HFC	7.9	681.0	17.0	203.0	1020	SS316L	50 pcs.	15-18	111-00297
MBT33HFC	7.9	838.0	17.0	254.0	1020	SS316L	50 pcs.	15-18	111-00298

Recommended Tools: 15=MK9SST, 16=MK9PSST, 17=HDT16, 18=KST-STG200. 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. Other packaging options may also be available. N = Minimum Loop Tensile Strength for Cable Ties (newton)



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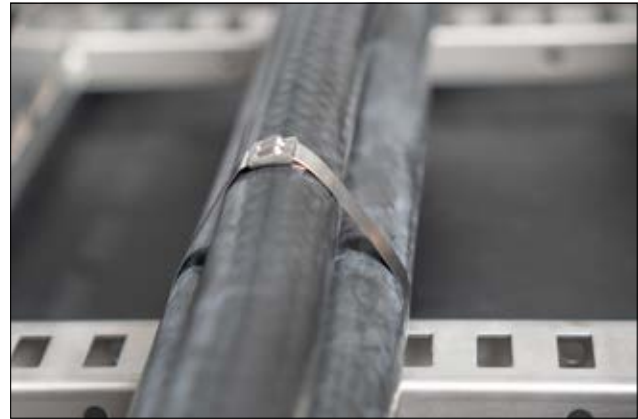
Double Wrap Strap Cleat with ball-lock

MCS-UHD- Series, Stainless steel 316L

Cleat Straps are designed to secure and support electrical cables within cable management systems, especially in environments exposed to high fault currents. Their primary role is to maintain cable alignment and containment under both normal operating conditions and during short-circuit events, where electromechanical forces can be extremely severe, short circuits are unpredictable and potentially destructive when they occur, they pose serious risk to cables, infrastructure and personnel. That's why proper selection and installation of our strap cleats is essential to ensure system integrity, protect equipment and people, comply with industry standards such as IEC61914, safeguarding your operations with confidence and reliability.

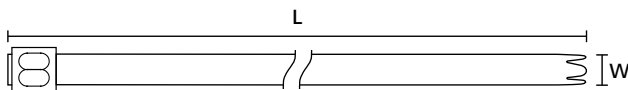
Features and benefits

- Complies with IEC 61914:2021 industry standards
- Marine grade SS316L stainless steel construction
- Available in Single-Wrap and Double-Wrap configurations
- Fast and easy installation
- Suitable for single, trefoil and quad cable formations
- Maintains cable retention under short-circuit conditions
- Protects cable infrastructure, personnel and equipment
- High resistance to corrosion, UV exposure and harsh environments
- Compatible with protective channel solutions for enhanced cable protection
- Designed for reliable performance in demanding applications



Stainless steel metal ball cable ties mounted on a cable tray.

MATERIAL	Stainless Steel (SS316L)
Operating Temperature	-40 °C to +60 °C
Flammability	non-burning
Specifications	IEC 61914:2021



MCS-Series 12.3 mm width

TYPE	Width (W)	Length (L)	Bundle Ø max.	Bundle Ø min.	N	Pack Cont.	Article-No.
MCS749UHD40	16.0	749.0	110.0	25.0	14000	25 pcs.	111-02614
MCS1054UHD40	16.0	1054.0	130.0	25.0	14000	25 pcs.	111-02610
MCS1359UHD40	16.0	1359.0	200.0	25.0	14000	25 pcs.	111-02612

All dimensions in mm. Subject to technical changes.



Protective channel for stainless steel ties

LFPC-Series

When used in conjunction with the MBT, MST, MLT and AMT range of stainless steel cable ties this channel gives the cable protection against chafing, vibration and shock. Ideal for use in arduous conditions such as those found on board ships, oil rigs or in nuclear power stations.

Features and benefits

- LFPC channel, manufactured from Polyolefin
- Works with MBT-, MST-, MLT- and AMT-Series
- Smooth surface protects bundle against chafing caused by vibrations and shocks
- Can be cut from roll to any length
- Halogenfree
- Flame retardant

The fire protection properties of the material relate to the test performed on defined test samples. This is a test under laboratory conditions and not directly transferable to the product made from this material.

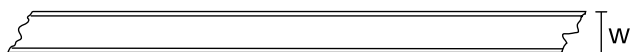


Protective channel LFPC, polyolefin, black.

MATERIAL	Polyolefin (PO)	Polyethylene, weather-resistant (PEW)
Colour	Black (BK)	

HF ✓

RoHS ✓



LFPC

TYPE	Width (W)	For Ties	Material	Pack Cont.	Article-No.
LFPC70	7.0	MBTS	PEW	25 m	111-93000
LFPC83	8.3	MBTH	PO	25 m	111-00257
LFPC103	10.3	MBTH	PO	25 m	111-94000
LFPC129	12.9	MBTXH	PO	25 m	111-00253
LFPC132	13.2	MBTXH	PO	25 m	111-00254
LFPC150	15.0	MBTXH	PO	25 m	111-95000

All dimensions in mm. Subject to technical changes.



Stainless steel P-mount to screw

Stainless steel 316L mounts

Suitable for the secure fixing of cables, tubing, conduits and pipes within the most arduous of environments. Providing a complete fastening and fixing solution when used in conjunction with stainless steel ties up to 10.0 mm width. SSPC metal cable tie mounts are ideal for use within shipbuilding, oil and gas (offshore), industrial machinery and vehicles, food and beverage, power, renewable energy or process industries.

Features and benefits

- 2-way fixing for metal cable ties
- High performance stainless steel 316L material
- Heavy duty design
- Robust and durable solution
- Resistant to a range of chemicals in challenging environments
- Quick and easy to install
- Safe and secure solution for cables, tubing, conduits and pipes



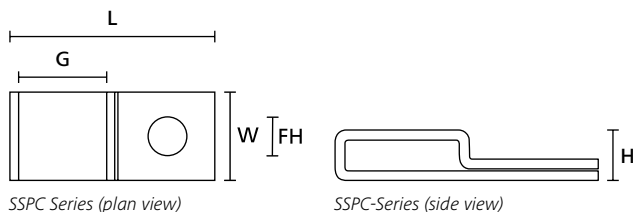
Stainless Steel P-Mount SSPC for use in arduous environments.

MATERIAL	Stainless Steel (SS316L)
Operating Temperature	-80 °C to +538 °C
Flammability	non-burning

HF ✓

LFH ✓

RoHS ✓



SSPC Series (plan view)

SSPC-Series (side view)

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
SSPC4	10.2	23.0	4.5	4.2	10.0	SS316L	Metal (ML)	100 pcs.	151-00837
SSPC5	10.2	23.0	4.5	5.3	10.0	SS316L	Metal (ML)	100 pcs.	151-00838
SSPC6	10.2	23.0	4.5	6.3	10.0	SS316L	Metal (ML)	100 pcs.	151-00839

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 Cleat Stainless Steel

Cable Cleat Trefoil

Cable cleats are designed to secure and support electrical cables within cable management systems, especially in environments exposed to high fault currents. Their primary role is to maintain cable alignment and containment under both normal operating conditions and during short-circuit events, where electromechanical forces can be extremely severe. Short circuits are unpredictable and potentially destructive when they occur, they pose serious risk to cables, infrastructure and personnel. That's why proper selection and installation of cable cleats is essential to ensure system integrity, protect equipment and people, comply with industry standards such as IEC61914, safeguarding your operations with confidence and reliability.

Features and benefits

- Complies with IEC61914-2021 industry standards
- Marine grade SS316L
- Supplied with Hardware SS316L M8, M10 or M12 bolt and nylon lock nut
- Easy to install
- Ensures system integrity
- Protects people and equipment
- Retains cable under electromechanical forces caused by short circuit events
- 180kA peek at 300mm spacing
- 125kA peek at 600mm spacing
- Very heavy impact resistance
- Lateral load test average 25kg
- Axial load test pass
- Needle Flame test 30 seconds
- Resistance to UV light test 1000 hours



Cable cleats, trefoil

MATERIAL	Stainless Steel (SS316L), Polyolefin compound unlinked (PO)
Operating Temperature	-40 °C to +60 °C
Flammability	non-burning
UV-Stabilised	Yes
Mech. Material Properties	Very heavy impact resistance

HF ✓

RoHS ✓

TYPE	Width (W)	Height (H)	Cable Ø min	Cable Ø max	Material	Colour	Article-No.
CCT023	50.0	79.0	18	23	SS316L PO	Metal (ML)	151-05001
CCT028	93.0	84.0	23	28	SS316L PO	Metal (ML)	151-05002
CCT032	99.0	91.0	27	32	SS316L PO	Metal (ML)	151-05003
CCT035	103.0	96.0	30	35	SS316L PO	Metal (ML)	151-05004
CCT038	107.0	101.0	33	38	SS316L PO	Metal (ML)	151-05005
CCT042	116.0	109.0	36	42	SS316L PO	Metal (ML)	151-05006
CCT046	119.0	118.0	40	46	SS316L PO	Metal (ML)	151-05007
CCT050	126.0	121.0	44	50	SS316L PO	Metal (ML)	151-05008
CCT058	143.0	134.0	51	58	SS316L PO	Metal (ML)	151-05009
CCT062	152.0	141.0	55	62	SS316L PO	Metal (ML)	151-05010
CCT066	161.0	148.0	59	66	SS316L PO	Metal (ML)	151-05011

All dimensions in mm. Subject to technical changes.



Cable Cleat Stainless Steel

Cable Cleat Trefoil

TYPE	Width (W)	Height (H)	Cable Ø min	Cable Ø max	Material	Colour	Article-No.
CCT070	169.0	155.0	63	70	SS316L PO	Metal (ML)	151-05012
CCT074	178.0	161.0	67	74	SS316L PO	Metal (ML)	151-05013
CCT078	186.0	168.0	71	78	SS316L PO	Metal (ML)	151-05014
CCT082	195.0	175.0	74	82	SS316L PO	Metal (ML)	151-05015
CCT085	202.0	180.0	77	85	SS316L PO	Metal (ML)	151-05016
CCT088	208.0	185.0	82	88	SS316L PO	Metal (ML)	151-05017
CCT096	225.0	199.0	88	96	SS316L PO	Metal (ML)	151-05018
CCT103	240.0	210.0	96	103	SS316L PO	Metal (ML)	151-05019
CCT111	258.0	224.0	103	111	SS316L PO	Metal (ML)	151-05020
CCT119	275.0	237.0	111	119	SS316L PO	Metal (ML)	151-05021
CCT128	295.0	265.0	119	128	SS316L PO	Metal (ML)	151-05022

All dimensions in mm. Subject to technical changes.



Heat shrinkable cable repair sleeves

RMS

RMS wrap-around sleeves are closed with a steel channel. The sleeve is adhesive lined and will effectively seal the cable after shrinkage. RMS sleeves provide fast, watertight and reliable insulation.

Features and benefits

- Fast, moisture proof and permanent repair of cable jackets
- Only 6 sizes for a wide range of cable diameters: from 15 mm up to 160 mm
- Available in 4 standard lengths and also in custom lengths on request
- Each RMS kit is ready for use and comes with instruction sheet, abrasive strip and cleaning sachet
- The metal closure is made of 316 stainless steel for high overall corrosion resistance
- Weather resistant and halogen free
- TCP (thermo chromatic paint) spots indicate the sleeve has been sufficiently heated



RMS: Repair sleeve, steel closure, abrasive strip, cleaning sachet, instruction sheet.

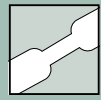


RMS wrap-around sleeves for rapid and secure cable repair.

MATERIAL	Polyolefin, chemically cross-linked (PO-X)
Shrink Ratio	up to 4.5:1
Operating Temperature	-40 °C to +120 °C
Min. Shrink Temperature	+110 °C
Softening Point Adhesive	+105 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	30 kV/mm

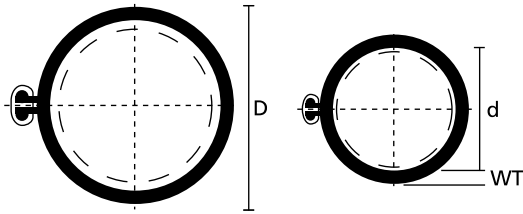
HF ✓

RoHS ✓

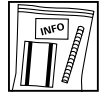


Heat shrinkable cable repair sleeves

RMS



Cable Repair Sleeve RMS with adhesive



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Suitable for Cable Ø from/to	Length (L)	Colour	Tools	Article-No.
RMS 43-10	43.0	10.0	2.30	15-35	250.0	Black (BK)	32	450-20000
	43.0	10.0	2.30	15-35	500.0	Black (BK)	32	450-20001
	43.0	10.0	2.30	15-35	750.0	Black (BK)	32	450-20004
	43.0	10.0	2.30	15-35	1000.0	Black (BK)	32	450-20002
RMS 52-15	52.0	15.0	2.30	20-45	250.0	Black (BK)	32	450-20010
	52.0	15.0	2.30	20-45	500.0	Black (BK)	32	450-20011
	52.0	15.0	2.30	20-45	750.0	Black (BK)	32	450-20014
	52.0	15.0	2.30	20-45	1000.0	Black (BK)	32	450-20012
RMS 76-22	76.0	22.0	2.50	28-65	500.0	Black (BK)	32	450-20021
	76.0	22.0	2.50	28-65	750.0	Black (BK)	32	450-20024
	76.0	22.0	2.50	28-65	1000.0	Black (BK)	32	450-20022
	76.0	22.0	2.50	28-65	1000.0	Black (BK)	32	450-20022
RMS 100-30	100.0	30.0	2.54	35-85	500.0	Black (BK)	32	450-20030
	100.0	30.0	2.54	35-85	1000.0	Black (BK)	32	450-20031
RMS 139-38	139.0	38.0	2.77	45-120	1000.0	Black (BK)	32	450-20041
RMS 185-55	185.0	55.0	2.74	65-160	1000.0	Black (BK)	32	450-20050

Recommended Tools: 32=CHG900. 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.



Heat shrinkable straight-through joint

LVK - adhesive lined

LVK is a heat shrinkable straight-through joint for universal connecting of unarmoured polymeric cables or conductors insulated with PVC, PE and XLPE. Suitable for compression and mechanical connectors on aluminium or copper cables. Voltage level 0.6/1.0 (1.2) kV.

Features and benefits

- Universally suitable to connect cables and conductors
- Immediately ready for use
- Using a high-quality thermoplastic inner adhesive
- Good corrosion protection properties with excellent abrasion resistance and weather resistance
- TCP (thermo chromatic paint) spots indicate the sleeve has been sufficiently heated
- Resistant to chemical agents and alkaline earths
- Excellent shrink behavior
- High UV resistance
- Halogen free

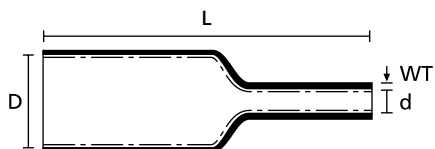


LVK - Heat shrinkable straight-through joint.



LVK: Outer sleeve, inner sleeves, cleaning cloth, emery cloth, installation instructions.

MATERIAL	Polyolefin, cross-linked (PO-X)
Colour	Black (BK)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+105 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	20 kV/mm



Heat Shrink Tubing 4:1 with adhesive



TYPE	No. of Inner sleeves	Conductor Size Range (mm ²)	Inner Tubing Supplied Ø D min.	Inner Tubing Recov. Ø d max.	Inner Tubing Length (L)	Outer Tubing Supplied Ø D min.	Outer Tubing Recov. Ø d max.	Outer Tubing Length (L)	Tools	Article-No.
LVK-4x25-95	4	1.5-16	19	3.2	125	48	12	450	32	380-04009
LVK-4x95-300	4	1.5-16	19	3.2	125	48	12	450	32	380-04011
LVK-4x16-50	4	25-150	33	8	250	105	25	800	32	380-04008
LVK-4x25-150	4	25-95	33	8	250	75	20	800	32	380-04010

Recommended Tools: 32=CHG900. 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.

Heat shrinkable straight-through joint

LVK - adhesive lined

TYPE	No. of Inner sleeves	Conductor Size Range (mm ²)	Inner Tubing Supplied Ø D min.	Inner Tubing Recov. Ø d max.	Inner Tubing Length (L)	Outer Tubing Supplied Ø D min.	Outer Tubing Recov. Ø d max.	Outer Tubing Length (L)	Tools	Article-No.
LVK-5x1.5-6	5	1.5-6	12	3	70	48	12	250	32	380-04005
LVK-5x1.5-16	5	6-25	22	6	125	55	16	500	32	380-04006
LVK-5x6-25	5	16-50	22	6	170	55	16	550	32	380-04007

Recommended Tools: 32=CHG900. 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.



Heat shrinkable straight-through joint with mechanical connectors

LVK-C - adhesive lined

LVK-C is a heat shrinkable straight-through joint for universal connecting of unarmoured polymeric cables or conductors insulated with PVC, PE and XLPE. With mechanical connectors for aluminium or copper cables. Voltage level 0.6/1.0 (1.2) kV.

Features and benefits

- Universally suitable to connect cables and conductors
- Immediately ready for use
- Using a high-quality thermoplastic inner adhesive
- Good corrosion protection properties with excellent abrasion resistance and weather resistance
- TCP (thermo chromatic paint) spots indicate the sleeve has been sufficiently heated
- Resistant to chemical agents and alkaline earths
- Excellent shrink behavior
- High UV resistance
- With mechanical connectors
- Halogen free

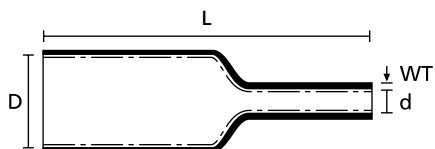


LVK-C - Heat shrinkable straight-through joint with connectors.



LVK-C: Outer sleeve, inner sleeves, mechanical connectors, cleaning cloth, emery cloth, installation instructions.

MATERIAL	Polyolefin, cross-linked (PO-X)
Colour	Black (BK)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+105 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	20 kV/mm



Heat Shrink Tubing 4:1 with adhesive



TYPE	No. of Inner sleeves	Conductor Size Range (mm ²)	Inner Tubing Supplied Ø D min.	Inner Tubing Recov. Ø d max.	Inner Tubing Length (L)	Outer Tubing Supplied Ø D min.	Outer Tubing Recov. Ø d max.	Outer Tubing Length (L)	Tools	Article-No.
LVK-C-4x16-50	4	25-150	33	8	250	105	25	800	32	380-04016
LVK-C-4x25-150	4	95-300	40	12	280	130	35	900	32	380-04018
LVK-C-5x1.5-6	5	1.5-6	12	3	70	48	12	250	32	380-04013

Recommended Tools: 32=CHG900. 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.

Heat shrinkable straight-through joint with mechanical connectors

LVK-C - adhesive lined

TYPE	No. of Inner sleeves	Conductor Size Range (mm ²)	Inner Tubing Supplied Ø D min.	Inner Tubing Recov. Ø d max.	Inner Tubing Length (L)	Outer Tubing Supplied Ø D min.	Outer Tubing Recov. Ø d max.	Outer Tubing Length (L)	Tools	Article-No.
LVK-C-5x1.5-16	5	6-25	22	6	125	55	16	500	32	380-04014
LVK-C-5x6-25	5	16-50	22	6	170	55	16	550	32	380-04015

Recommended Tools: 32=CHG900. 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.



Rodent repellent self-closing sleeving

Helagaine Twist-In-RR

Helagaine Twist-In-RR is used to bundle and protect cables and hoses against rodents and martens in demanding areas such as automotive, railways, telecoms, underground, sewage system. Helagaine Twist-In-RR is also available in practical 2 m and 3 m lengths for use in the home or workplace.

Features and benefits

- Self-closing sleeve made from glass-fibre and polyester
- Optimal protection from rodents and martens
- Optimal fire protection
- Optimal protection against abrasion, vibrations and impacts
- Provides very good protection against abrasion, UV, vibrations and impacts
- Certified conformity with railway standard EN45545-2: R22 HL3, R23 HL3
- Quick and easy installation and retro-fitting
- Lightweight
- Allows for inspection and maintenance
- Good resistance to acids and solvents
- Good resistance to UV and weathering
- Good resistance to micro-organisms



Helagaine Twist-In-RR is used to protect against rodents and martens.

MATERIAL	Polyester (PET), Glass-fibre (GF)
Operating Temperature	-70 °C to +125 °C
Melting Point	+225 °C
Flammability	FMVSS 302
EN 45545-2 Classification	R22 HL3, R23 HL3



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
Twist-In-RR-13	10.0	13.0	White (WH), Black (BK)	50 m	170-01161
Twist-In-RR-19	16.0	19.0	White (WH), Black (BK)	25 m	170-01162
Twist-In-RR-29	25.0	29.0	White (WH), Black (BK)	15 m	170-01163
Twist-In-RR-32	29.0	32.0	White (WH), Black (BK)	15 m	170-01164

All dimensions in mm. Subject to technical changes.

EN 45545-2

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



Two-component polyurethane cast resin

RELICON PUR 33

The RELICON PUR 33 cast resin has been created for the electrical insulation and mechanical protection of cable connections in low-voltage electrical networks. Also suitable as mechanical and moisture protection on medium-voltage cable connections.

Application: For indoor and outdoor use.

Features and benefits

- In a practical, transparent two-chamber pouch
- Colour changes from blue to green whilst mixing
- Safe-Filling system (SF)
- Excellent flow properties, low volume shrinkage
- Cold curing and very hydrophobic, to cast under the influence of water
- High hydrolytic stability and good curing at low temperatures
- UV, ageing and weather resistant
- Outstanding impact strength and resistance to moisture and atmospheric corrosion
- Excellent adhesion to polymeric cables and wires made of PVC, XLPE, PE, EPR
- SVHC-free, contains no hazardous substances, the cured product can be disposed of with house hold waste
- Halogen free



Two-component polyurethane cast resin PUR 33.

MATERIAL	Polyurethane resin (PUR)
Colour	Green (GN)
Operating Temperature	-25 °C to +120 °C
Mixing Ratio (weight)	100:26
Exothermie (max.)	+71 °C
Gel Time	48 min. 5°C, 20 min. 23°C, 9 min. 40°C
Pot Life	43 min. 5°C, 15 min. 23°C, 8 min. 40°C
Dielectric Strength	38 kV/mm
Viscosity	4500 mPa*s, 5 °C (EN ISO 2555), 3000 mPa*s, 23 °C (EN ISO 2555)
Impact Strength	26 kJ/m ²
Shore Hardness D	65±5
Storage Temperature	+4 °C to +40 °C
Shelf Life	48 months

HF ✓

RoHS ✓

TYPE	Resin Quantity	Article-No.
Resin-33-SF-N	95 ml	435-12112
	240 ml	435-12114
	490 ml	435-12117
	655 ml	435-12118
	955 ml	435-12119
	1140 ml	435-12120
	1450 ml	435-12121
	1950 ml	435-12122

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.



Straight-through cable joints without connectors

RELICON i-Line SF with PUR 33

RELICON straight-through joints are made for installations in low-voltage electrical networks. They are suitable for jointing on polymeric cables and wires made of PVC, XLPE, PE, EPR and utility cables.

Application: Connections in industrial buildings, power supply in the ground, outdoors and underwater.

Features and benefits

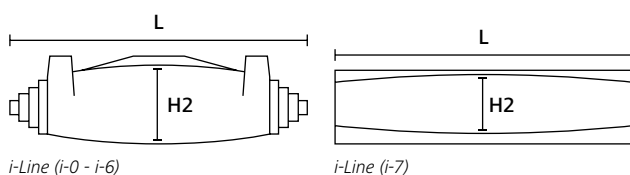
- Colour changes from blue to green whilst mixing
- Two-part, impact-proof, transparent moulding shells
- Compact, optimized dimensions
- Standard cable diameters indicated on the shells
- Safe-Filling system (SF)
- Immediately ready for use
- Longitudinally and transversely watertight
- Joint can be submerged directly after casting



Straight-through joints i-Line SF (safe-filling) / Straight through joints i-A Line SF (safe-filling) – Armoured.

MATERIAL	Polyurethane resin (PUR)
Colour	Green (GN)
Operating Temperature	-25 °C to +120 °C
Storage Temperature	+4 °C to +40 °C
Shelf Life	48 months

RoHS ✓



i-Line (i-0 - i-6)

i-Line (i-7)

TYPE	Ø Main Cable	Main Cable mm ² min.	Main Cable mm ² max.	Length (L)	Height (H2)	Resin Quantity	Article-No.
i-0 / SF	6-16	3 x 1.5	5 x 2.5	182.0	25.0	95 ml	435-00080
i-1 / SF	6-24	3 x 1.5	5 x 6	190.0	36.0	165 ml	435-00081
i-1.5 / SF	6-24	3 x 1.5	5 x 10	215.0	39.0	220 ml	435-00088
i-2 / SF	14-32	5 x 1.5	5 x 16	276.0	49.0	400 ml	435-00082
i-3 / SF	21-39	5 x 10	5 x 35	360.0	54.0	655 ml	435-00083
i-4 / SF	28-50	4 x 25	4 x 95	400.0	69.0	1140 ml	435-00084
i-5 / SF	33-62	4 x 50	4 x 150	520.0	100.0	2 x 1450 ml	435-00085
i-6 / SF	48-80	4 x 150	4 x 240	700.0	128.0	4 x 1640 ml	435-00086

All dimensions in mm. Subject to technical changes.



Straight-through cable joints with connectors

RELICON i-Line Premium SF with PUR 33

RELICON Premium straight-through joints are provided with an integrated connector block and made for low-voltage electrical networks. They are suitable for jointing on polymeric cables and wires made of PVC, XLPE, PE, EPR and utility cables.

Application: Connections in industrial buildings, power supply in the ground, outdoors and underwater.

Features and benefits

- Colour changes from blue to green whilst mixing
- Two-part, impact-proof, transparent moulding shells
- Compact, optimized dimensions
- Standard cable diameters indicated on the shells
- Safe-Filling system (SF)
- Immediately ready for use
- Longitudinally and transversely watertight
- Joint can be submerged directly after casting
- Connectors for aluminium and copper conductors
- Safe connection for up to 5-core cables



Straight-through joints i-Line SF (safe-filling) / Straight through joints i-A Line SF (safe-filling) – Armoured.

MATERIAL	Polyurethane resin (PUR)
Colour	Green (GN)
Operating Temperature	-25 °C to +120 °C
Storage Temperature	+4 °C to +40 °C
Shelf Life	48 months

RoHS ✓

TYPE	Ø Main Cable	Main Cable mm ² min.	Main Cable mm ² max.	Length (L)	Height (H2)	Resin Quantity	Article-No.
i-1 Premium / SF	6-24	3 x 1.5	5 x 6	190.0	36.0	165 ml	435-12060
i-2 Premium / SF	14-32	5 x 1.5	5 x 16	276.0	49.0	400 ml	435-12061
i-3 Premium / SF	21-39	5 x 6	5 x 35	360.0	54.0	655 ml	435-12062

All dimensions in mm. Subject to technical changes.



Branch cable joints

RELICON Y-Line SF with PUR 33

RELICON branch joints are made for installations in low-voltage electrical networks. They are suitable for jointing on polymeric cables and wires made of PVC, XLPE, PE, EPR and utility cables.

Application: Connections in industrial buildings, power supply in the ground, outdoors and underwater.

Features and benefits

- Colour changes from blue to green whilst mixing
- Two-part, impact-proof, transparent moulding shells
- Compact, optimized dimensions
- Standard cable diameters indicated on the shells
- SF-system
- Immediately ready for use
- Longitudinally and transversely watertight
- Joint can be submerged directly after casting



Branch joint Y-Line SF (safe filling) / Branch joint Y-A Line SF (safe filling) – Armoured.

MATERIAL	Polyurethane resin (PUR)
Colour	Green (GN)
Operating Temperature	-25 °C to +120 °C
Storage Temperature	+4 °C to +40 °C
Shelf Life	48 months

RoHS ✓

TYPE	Ø Main Cable	Main Cable mm ² min.	Main Cable mm ² max.	Ø Branch Cable	Angle	Branch Cable mm ² min.	Branch Cable mm ² max.	Length (L)	Height (H2)	Resin Quantity	Article-No.
Y-0 / SF	8-24	3 x 1.5	4 x 10	8-24	30°	3 x 1.5	4 x 4	190.0	60.0	240 ml	435-12063
Y-1 / SF	6-26	3 x 1.5	5 x 10	6-26	30°	3 x 1.5	5 x 6	205.0	70.0	490 ml	435-12064
Y-2 / SF	25-42	4 x 16	5 x 25	15-36	20°	4 x 6	5 x 16	350.0	98.0	1445 ml	435-12065
Y-3 / SF	10-40	4 x 16	5 x 16	13-28	20°	4 x 10	5 x 10	330.0	90.0	955 ml	435-12066
Y-5 / SF	35-51	4 x 25	4 x 150	17-33	15°	4 x 10	4 x 50	298.0	120.0	2045 ml	435-12067
Y-6 / SF	30-58	4 x 95	4 x 185	17-42	20°	4 x 10	4 x 70	430.0	130.0	2 x 1450 ml	435-12068

All dimensions in mm. Subject to technical changes.



Branch cable joints

RELICON T-Line SF with PUR 33

RELICON branch joints are made for installations in low-voltage electrical networks. They are suitable for jointing on polymeric cables and wires made of PVC, XLPE, PE, EPR and utility cables.

Application: Connections in industrial buildings, power supply in the ground, outdoors and underwater.

Features and benefits

- Colour changes from blue to green whilst mixing
- Two-part, impact-proof, transparent moulding shells
- Compact, optimized dimensions
- Standard cable diameters indicated on the shells
- SF-system
- Immediately ready for use
- Longitudinally and transversely watertight
- Joint can be submerged directly after casting



Branch joint T-Line SF (safe filling) / Branch joint T-A Line SF (safe filling) – Armoured.

MATERIAL	Polyurethane resin (PUR)
Colour	Green (GN)
Operating Temperature	-25 °C to +120 °C
Storage Temperature	+4 °C to +40 °C
Shelf Life	48 months

RoHS ✓

TYPE	Ø Main Cable	Main Cable mm ² min.	Main Cable mm ² max.	Ø Branch Cable	Angle	Branch Cable mm ² min.	Branch Cable mm ² max.	Length (L)	Height (H2)	Resin Quantity	Article-No.
T-1 / SF	16-26	5 x 1.5	5 x 10	10-24	90°	3 x 1.5	5 x 6	276.0	177.0	455 ml	435-12069
T-2 / SF	25-32	5 x 6	5 x 16	18-25	90°	5 x 1.5	5 x 10	380.0	225.0	2045 ml	435-12070
T-3 / SF	29-40	5 x 10	5 x 50	20-30	90°	5 x 6	5 x 16	520.0	205.0	2 x 1450 ml	435-12071

All dimensions in mm. Subject to technical changes.



RELICON Religel Clear

Religel Clear

RELICON Religel Clear is a transparent, soft elastic two-component silicone gel. It is packed in practical bottles or canisters including measuring cup and mixing stick.

Encapsulation of printed circuit boards, Installation of electrical connections, Belowground or submerged, Model-making and hobby applications

Features and benefits

- Optimal visual control through transparent material
- Crystal clear gel after curing, excellent insulating properties
- Multiple use possible, mixing ratio 1:1
- Excellent flow and insulating properties
- Excellent moisture and chemical resistance
- Soft elastic, vibration absorbing and removable residue-free



RELICON Religel Clear, Transparent and heat-resistant two-component silicone gel.

MATERIAL	Silicone (SI)
Colour	Transparent (CL)
Operating Temperature	-60 °C to +200 °C
Mixing Ratio (weight)	1:1
Gel Time	20 min. 23°C
Pot Life	10 min. 23°C
Density	0.97 g/cm ³ , 20 °C (DIN EN ISO 2811-2)
Dielectric Strength	25 kV/mm
Viscosity	1000 mPa*s, 23 °C (EN ISO 2555)
Storage Temperature	+4 °C to +40 °C
Shelf Life	Unlimited

HF ✓

RoHS ✓

TYPE	Pack Cont.	Article-No.
Religel Clear 500	500 ml	435-00757
Religel Clear 1.000	1000 ml	435-00754
Religel Clear 10.000	10000 ml	435-00755

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



RELICON Religel Plus

Religel Plus

RELICON Religel Plus is a green-transparent, elastic 2-component silicone gel. It is packed in practical bottles or canisters including measuring cup and mixing stick. It is particularly suited to fill junction boxes for low voltage applications. Electrical insulation in low-voltage applications, Encapsulation of cables and wires in junction boxes, Building and household installations, Belowground, submerged.

Features and benefits

- Timesaving due to fast curing time
- Stable up to 200 °C
- Visual control of the homogenous mixture indicated by green-coloured component B
- Multiple use possible, mixing ratio 1:1
- Excellent flow and insulating properties
- Excellent moisture and chemical resistance
- Soft elastic, vibration absorbing and removable residue-free



RELICON Religel Plus - Fast curing and heat resistant two-component silicone gel.

MATERIAL	Silicone (SI)
Colour	Green (GN), Transparent (CL)
Operating Temperature	-60 °C to +200 °C
Mixing Ratio (weight)	1:1
Gel Time	12 min. 23°C
Pot Life	5 min. 23°C
Density	0.97 g/cm ³ , 20 °C (DIN EN ISO 2811-2)
Dielectric Strength	25 kV/mm
Viscosity	1000 mPa*s, 23 °C (EN ISO 2555)
Storage Temperature	+4 °C to +40 °C
Shelf Life	Unlimited

HF ✓

RoHS ✓

TYPE	Pack Cont.	Article-No.
Religel Plus 500	500 ml	435-00756
Religel Plus 1.000	1000 ml	435-00752
Religel Plus 10.000	10000 ml	435-00753

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.



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

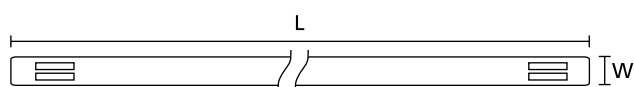


TIPTAG PU – printed mark has a tattoo-like permanency.



TIPTAG PU - Identification markers suitable for harsh environments.

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
TTAGPU15X65WH	65.0	15.0	190 pcs.	White (WH)	556-25007
TTAGPU15X65YE	65.0	15.0	190 pcs.	Yellow (YE)	556-25011
TTAGPU11X100WH	100.0	11.0	125 pcs.	White (WH)	556-25021
TTAGPU11X100YE	100.0	11.0	125 pcs.	Yellow (YE)	556-25020
TTAGPU15X100WH	100.0	15.0	125 pcs.	White (WH)	556-25006
TTAGPU15X100YE	100.0	15.0	125 pcs.	Yellow (YE)	556-25010

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.

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.

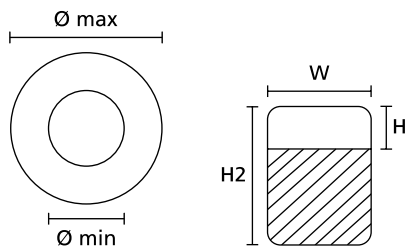
Features and benefits

- 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.
TAG51TD3	1.4	3.0	25.4	8.8	19.1	85.0	3 pcs.	5000 pcs.	White (WH), Transparent (CL)	596-51320
TAG26TD6	1.5	3.0	12.7	9.5	19.1	85.0	6 pcs.	10000 pcs.	White (WH), Transparent (CL)	596-26320
TAG36TD7	2.0	4.7	12.7	9.0	23.8	95.0	7 pcs.	10000 pcs.	White (WH), Transparent (CL)	596-36320
TAG2TD6	3.5	7.6	12.7	12.7	36.5	82.0	6 pcs.	5000 pcs.	White (WH), Transparent (CL)	596-02320
TAG22TD3	3.5	7.6	25.4	12.7	36.5	82.0	3 pcs.	2500 pcs.	White (WH), Transparent (CL)	596-22320
TAG24TD1	3.5	7.6	50.8	12.7	36.5	55.0	1 pc.	1000 pcs.	White (WH), Transparent (CL)	596-24320

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.

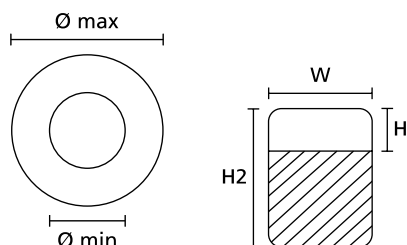


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Self-laminating and flag labels, thermal transfer

Helatag 323, high temperature



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.
TAG23TD5	4.5	10.0	19.1	12.7	44.5	101.6	5 pcs.	5000 pcs.	White (WH), Transparent (CL)	596-23320
TAG25TD3	4.5	10.0	25.4	12.7	44.5	82.0	3 pcs.	2500 pcs.	White (WH), Transparent (CL)	596-25320
TAG9TD3	5.5	12.1	25.4	19.1	57.1	82.0	3 pcs.	2500 pcs.	White (WH), Transparent (CL)	596-09320
TAG10TD2	5.5	12.1	49.5	19.1	57.1	101.6	2 pcs.	1000 pcs.	White (WH), Transparent (CL)	596-10320
TAG1TD2	8.5	18.2	48.2	19.1	79.2	101.6	2 pcs.	1000 pcs.	White (WH), Transparent (CL)	596-01320
TAG3TD3	10.0	22.2	25.4	25.4	95.3	82.0	3 pcs.	1000 pcs.	White (WH), Transparent (CL)	596-03320
TAG6TD1	10.0	22.2	50.8	25.4	95.3	55.0	1 pc.	500 pcs.	White (WH), Transparent (CL)	596-06320
TAG107TD3	12.0	37.5	25.4	31.8	149.9	82.0	3 pcs.	1000 pcs.	White (WH), Transparent (CL)	596-10732
TAG38TD3	20.8	47.5	25.4	38.1	187.2	82.0	3 pcs.	1000 pcs.	White (WH), Transparent (CL)	596-38320
TAG07TD1	20.8	47.5	50.8	25.4	187.2	55.0	1 pc.	250 pcs.	White (WH), Transparent (CL)	596-07320

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.



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Self-laminating and flag labels, manual marking

RiteOn Self-laminating, 1401

A specially developed material for use in labels required to wrap around cables and wires. The conformable structure of the label ensures that once the label is applied to the wire it remains in place without lifting. The SPRO200-1401-WH Starter Pack contains all you need to start work identifying your wires,

1 x RiteOn dispenser

1 x RO202 reel of 150 self-laminating labels for cable diameters ranging from 6 mm to 12 mm

1 x T82S-BK black indelible ink marker pen

Features and benefits

- Palm sized hand held self-laminating label dispenser
- Easy to write on and dispense labels
- Wide range of wire diameters covered as standard
- Ideal for low volume maintenance and repair work
- Write text with specially formulated fast-drying ink T82 pens

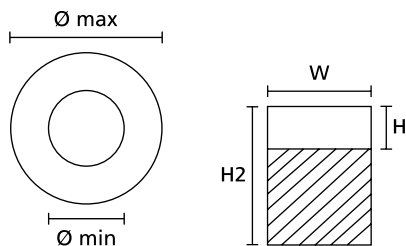
Please find corresponding marker pens on page 109.



Easy to write and dispense labels with RiteOn label dispenser.

MATERIAL	Type 1401, Vinyl (1401)
Operating Temperature	-40 °C to +80 °C
Curing Temperature	from +10 °C
Adhesive	Acrylic
Thickness of Foil	80 µm
Chem. Material Properties	Resistant to water, oil and many solvents.

RoHS



TYPE	Description	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Height (H2)	Pack Cont.	Colour	Article-No.
SPRO200	Starter pack	6.1	12.1	19.1	12.7	50.8	150 pcs.	White (WH), Transparent (CL)	550-14010
RO201	Filled dispenser	4.0	8.1	12.7	12.7	38.1	200 pcs.	White (WH), Transparent (CL)	550-14011
RO202	Filled dispenser	6.1	12.1	19.1	12.7	50.8	150 pcs.	White (WH), Transparent (CL)	550-14012
RO203	Filled dispenser	9.1	18.2	19.1	25.4	76.2	100 pcs.	White (WH), Transparent (CL)	550-14013
RO201REF	Refill pack	4.0	8.1	12.7	12.7	38.1	200 pcs.	White (WH), Transparent (CL)	550-14014
RO202REF	Refill pack	6.1	12.1	19.1	12.7	50.8	150 pcs.	White (WH), Transparent (CL)	550-11401
RO203REF	Refill pack	9.1	18.2	19.1	25.4	76.2	100 pcs.	White (WH), Transparent (CL)	550-71401

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.



Self-laminating and flag labels, manual marking

HELASIGN 1402, Booklet

A quick and simple on-site solution, for either permanent or temporary marking of wires, cables and pipes.

Features and benefits

- Self-laminating labels supplied in handy pocket-sized booklets
- Booklet cover protects labels when stored
- Ideal for low volume maintenance and repair work
- Easy to write on and dispense labels
- Laminating function gives excellent protection against humidity and mechanical abrasion
- Applicator tool for clean application enclosed
- Write text with specially formulated fast-drying ink T82 pens

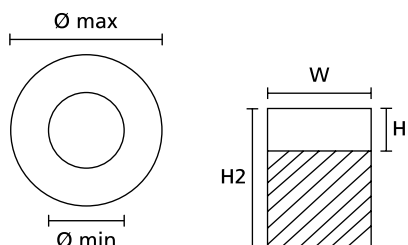
Please find corresponding marker pens on page 109.



HELASIGN self-laminating labels for quick and easy wire and cable identification.

MATERIAL	Type 1402, Vinyl (1402)
Operating Temperature	-40 °C to +80 °C
Curing Temperature	from +8 °C
Adhesive	Acrylic
Thickness of Foil	80 µm
Chem. Material Properties	Resistant to water, oil and many solvents.

RoHS



TYPE	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Height (H2)	Pack Cont.	Colour	Article-No.
HSMB-C1	4.0	8.1	12.7	12.7	38.1	240 pcs.	White (WH), Transparent (CL)	598-14020
HSMB-C2	6.1	12.1	19.1	12.7	50.8	120 pcs.	White (WH), Transparent (CL)	598-14026
HSMB-C3	9.1	18.2	25.4	19.1	76.2	60 pcs.	White (WH), Transparent (CL)	598-21402
HSMB-C4	16.2	32.3	25.4	25.4	127.0	30 pcs.	White (WH), Transparent (CL)	598-40402
HSMB-C5	20.2	40.3	25.4	25.4	152.0	30 pcs.	White (WH), Transparent (CL)	598-50402

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.



Indelible Marker Pen

T82 Marker Pen

The T82 marker pens are ideally suitable for marking a wide variety of materials.

Features and benefits

- Ideal for writing on RiteOn, HELASIGN, Arrowtags, IMP Plates
- Also works on identification ties
- Very quick-drying ink
- Extremely UV resistant
- Packs of two in red or black



T82 Marker Pen.



T82.

MATERIAL	Plastic (PL)
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TYPE	Description	Pack Cont.	Colour	Article-No.
T82S-BK	Indelible Marker Pen	2 pcs.	Black (BK)	500-50820
T82R-RD	Indelible Marker Pen	2 pcs.	Red (RD)	500-50822

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



Panel plate labels, thermal transfer

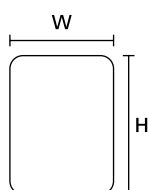
Helatag 1220

Panel labels are durable adhesive labels especially made from a thick material that is designed to replace traditional engraved plastic plates. The white glossy colour is suited to industrial control panels, switchgear, data racks and general equipment labelling. Create crisp and clear professional looking labels by printing with HellermannTyton thermal transfer printers and ribbons.

Simple label design creation is easily achieved using TagPrint Pro.

Features and benefits

- Cost-effective replacement for engraved plastic plates, no need for additional label holder
- High performance adhesive and compressible foam backing ensures optimal adhesion to uneven surfaces if required
- Rounded corners ensure better long term durability of adhesion
- Print high contrast text and barcodes
- Print 'On Site' not order 'Off Site'
- Special sizes and colours are possible on request
- For outstanding chemical resistance use TT1220OUT



Panel labels Helatag 1220 – high performance adhesive ensures optimal adhesion to uneven surfaces.

MATERIAL	Type 1220, Polyester, white (1220)
Operating Temperature	-40 °C to +90 °C
Curing Temperature	from +10 °C
Adhesive	Acrylic
Thickness of Foil	50 µm
Chem. Material Properties	Excellent resistance to ageing and weathering. Extensive resistance to the influence of chemicals and solvents.
UV-Stabilised	Yes
Recommended Ribbon Type	TT1220OUT, TT8220OUT
Thermal Transfer Printer	TT431, TT4030

RoHS

TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG13-07TDK1	13.0	7.0	21.0	1 pc.	1000 pcs.	White (WH)	596-00560
TAG22-22TDK1	22.0	22.0	28.0	1 pc.	1000 pcs.	White (WH)	596-00561
TAG27-08TDK1	27.0	8.0	33.0	1 pc.	1000 pcs.	White (WH)	596-00562
TAG27-12.5TDK1	27.0	12.5	33.0	1 pc.	1000 pcs.	White (WH)	596-00558
TAG27-15TDK1	27.0	15.0	33.0	1 pc.	1000 pcs.	White (WH)	596-00563
TAG27-18TDK1	27.0	18.0	33.0	1 pc.	1000 pcs.	White (WH)	596-00564
TAG27-27TDK1	27.0	27.0	33.0	1 pc.	1000 pcs.	White (WH)	596-00565
TAG35-18TDK1	35.0	18.0	41.0	1 pc.	1000 pcs.	White (WH)	596-00566
TAG45-15TDK1	45.0	15.0	51.0	1 pc.	1000 pcs.	White (WH)	596-00567
TAG45-25TDK1	45.0	25.0	51.0	1 pc.	1000 pcs.	White (WH)	596-00568
TAG60-30TDK1	60.0	30.0	66.0	1 pc.	500 pcs.	White (WH)	596-00569
TAG90-45TDK1	90.0	45.0	96.0	1 pc.	500 pcs.	White (WH)	596-00570
TAG100-30TDK1	100.0	30.0	106.0	1 pc.	250 pcs.	White (WH)	596-00571
TAG100-70TDK1	100.0	70.0	106.0	1 pc.	250 pcs.	White (WH)	596-00572

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



Panel plate labels, thermal transfer

Helatag 1221

Panel labels are durable adhesive labels especially made from a thick material that is designed to replace traditional engraved plastic plates. The silver colour is suited to industrial control panels, switchgear, data racks and general equipment labelling.

Create crisp and clear professional looking labels by printing with HellermannTyton thermal transfer printers and ribbons.

Simple label design creation is easily achieved using TagPrint Pro.

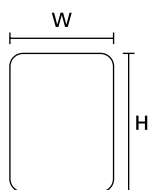
Features and benefits

- Cost-effective replacement for engraved plastic plates, no need for additional label holder
- High performance adhesive and compressible foam backing ensures optimal adhesion to uneven surfaces if required
- Rounded corners ensure better long term durability of adhesion
- Print high contrast text and barcodes
- Print 'On Site' not order 'Off Site'
- Special sizes and colours are possible on request
- For outstanding chemical resistance use TT122OUT



Panel labels are an ideal replacement for engraved plates.

MATERIAL	Type 1221, Polyester, silver (1221)
Operating Temperature	-40 °C to +90 °C
Curing Temperature	from +10 °C
Adhesive	Acrylic
Thickness of Foil	50 µm
Chem. Material Properties	Excellent resistance to ageing and weathering. Extensive resistance to the influence of chemicals and solvents.
UV-Stabilised	Yes
Recommended Ribbon Type	TT122OUT, TT822OUT
Thermal Transfer Printer	TT431, TT4030



RoHS ✓

TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG13-07TDK1	13.0	7.0	21.0	1 pc.	1000 pcs.	Silver (SR)	596-00573
TAG22-22TDK1	22.0	22.0	28.0	1 pc.	1000 pcs.	Silver (SR)	596-00574
TAG27-08TDK1	27.0	8.0	33.0	1 pc.	1000 pcs.	Silver (SR)	596-00575
TAG27-12.5TDK1	27.0	12.5	33.0	1 pc.	1000 pcs.	Silver (SR)	596-00576
TAG27-15TDK1	27.0	15.0	33.0	1 pc.	1000 pcs.	Silver (SR)	596-00577
TAG27-18TDK1	27.0	18.0	33.0	1 pc.	1000 pcs.	Silver (SR)	596-00578
TAG27-27TDK1	27.0	27.0	33.0	1 pc.	1000 pcs.	Silver (SR)	596-00579
TAG35-18TDK1	35.0	18.0	41.0	1 pc.	1000 pcs.	Silver (SR)	596-00580
TAG45-15TDK1	45.0	15.0	51.0	1 pc.	1000 pcs.	Silver (SR)	596-00581
TAG45-25TDK1	45.0	25.0	51.0	1 pc.	1000 pcs.	Silver (SR)	596-00582
TAG60-30TDK1	60.0	30.0	66.0	1 pc.	500 pcs.	Silver (SR)	596-00583
TAG90-45TDK1	90.0	45.0	96.0	1 pc.	500 pcs.	Silver (SR)	596-00584
TAG100-30TDK1	100.0	30.0	106.0	1 pc.	250 pcs.	Silver (SR)	596-00585
TAG100-70TDK1	100.0	70.0	106.0	1 pc.	250 pcs.	Silver (SR)	596-00586

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 with integrated RFID transponder

T50RFID – Low frequency (LF) and high frequency (HF), blank

RFID cable ties provide an innovative solution for clear and rapid product identification. The nylon cable ties are equipped with an RFID transponder and therefore combine the numerous advantages of a regular cable tie with RFID technology. The ties are especially suited for securing, serialisation, tracking and identification of products in the areas of resource management, electrical inspection, inventory, distribution and rental services as well as for easy management of maintenance and repair routines.

Features and benefits

- Flexible, contactless data communication
- Clear identification of objects through unique numbering
- Faster data management compared to paper solution
- More accurate documentation processes – prevention of human errors
- Robust and resistant to harsh environments and cleaning processes
- Low frequency (LF – 125 kHz) - Read only
- High frequency (HF – 13.56 MHz) - Rewritable



T50RFID – clear identification even under harsh conditions.

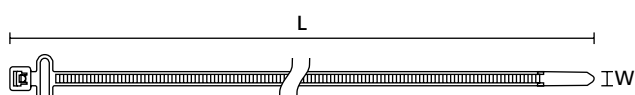


T50RFID – cable ties with RFID transponder.

MATERIAL	Polyamide 6.6 (PA66)	
Storage Temperature	-40 °C to +85 °C	
Frequency	125 kHz (LF)	13.56 MHz (HF)
Operating Temperature	-40 °C to +85 °C	-25 °C to +85 °C
Flammability	UL 94 V2	

HF ✓

RoHS ✓

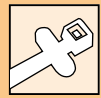


T50RFID, MCTRFID

TYPE	Frequency	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	N	Colour	Pack Cont.	Material	Tools	Article-No.
T50RFIDCLA	125 kHz (LF)	1.5	50.0	4.6	200.0	225	Yellow (YE)	100 pcs.	PA66	5;25	111-01638
T50RFIDCHA	13.56 MHz (HF)	1.5	50.0	4.6	200.0	225	Yellow (YE)	100 pcs.	PA66	5;25	111-01639
	13.56 MHz (HF)	1.5	50.0	4.6	200.0	225	Black (BK)	100 pcs.	PA66	5;25	111-01591
	13.56 MHz (HF)	1.5	50.0	4.6	200.0	225	Light Blue (LTBU)	100 pcs.	PA66	5;25	111-01673

Recommended Tools: 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. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Stainless steel ties with RFID transponder

MBTRFID – High frequency (HF) and ultra high frequency (UHF), blank

Stainless steel RFID cable ties are fitted with a slide-on carrier for a high frequency (HF) or an ultra-high frequency (UHF) RFID transponder. These ties are ideal for product identification in all areas of harsh environment where high tensile strength and durability is of importance. The ties are especially suited for securing, serialisation, tracking and identification of products in the areas of resource management, electrical inspection, inventory, distribution and rental services as well as for easy management of maintenance and repair routines.

Features and benefits

- MBT stainless steel (316) tie complete with RFID transponder
- Especially suited for applications in harsh environments
- Patented non-releasable locking feature
- Flexible, contactless data communication
- Clear identification of objects through unique numbering
- Faster data management compared to paper solution
- More accurate documentation processes – prevention of human errors
- High frequency (HF – 13.56 MHz) and ultra high frequency (UHF – 869 MHz) available
- Rewritable
- Standard colour red, black coating is also available as a special

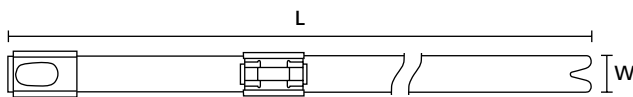


MBTRFID – stainless steel RFID cable ties for product identification in harsh environments.

MATERIAL	Stainless Steel (SS316), Polyester, saturated (SP)	
Storage Temperature	-25 °C to +70 °C	-40 °C to +85 °C
Frequency	13.56 MHz (HF)	869 MHz (UHF)
Operating Temperature	-25 °C to +70 °C	-40 °C to +85 °C
Flammability	non-burning (except coating)	

HF ✓

RoHS ✓



MBTRFID

TYPE	Frequency	Bundle Ø min.	Bundle Ø max.	Width (W)	Length (L)	N	Colour	Pack Cont.	Material	Tools	Article-No.
MBT8HFCRFID	13.56 MHz (HF)	17.0	50.0	7.9	201.0	1020	Red (RD)	50 pcs.	SS316	15-18	156-01167
MBT14HFCRFID	13.56 MHz (HF)	17.0	102.0	7.9	362.0	1020	Red (RD)	50 pcs.	SS316	15-18	111-01586
MBT20HFCRFID	13.56 MHz (HF)	17.0	152.0	7.9	521.0	1020	Red (RD)	50 pcs.	SS316	15-18	111-01587
MBT27HFCRFID	13.56 MHz (HF)	17.0	203.0	7.9	681.0	1020	Red (RD)	50 pcs.	SS316	15-18	111-01588
MBT33HFCRFID	13.56 MHz (HF)	17.0	254.0	7.9	838.0	1020	Red (RD)	50 pcs.	SS316	15-18	111-01589
MBT8HHFRFID	869 MHz (UHF)	17.0	50.0	7.9	201.0	1020	Red (RD)	50 pcs.	SS316	15-18	156-01565
MBT14HHFRFID	869 MHz (UHF)	17.0	102.0	7.9	362.0	1020	Red (RD)	50 pcs.	SS316	15-18	156-01566
MBT20HHFRFID	869 MHz (UHF)	17.0	152.0	7.9	521.0	1020	Red (RD)	50 pcs.	SS316	15-18	156-01567
MBT27HHFRFID	869 MHz (UHF)	17.0	203.0	7.9	681.0	1020	Red (RD)	50 pcs.	SS316	15-18	156-01568
MBT33HHFRFID	869 MHz (UHF)	17.0	254.0	7.9	838.0	1020	Red (RD)	50 pcs.	SS316	15-18	156-01569

Recommended Tools: 15=MK9SST, 16=MK9PSST, 17=HDT16, 18=KST-STG200. 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. Other packaging options may also be available.



Stainless steel embossing system

M-BOSS Compact

M-BOSS Compact is a quiet easy-to-use metal plate embossing printer with a small production footprint. It is simple to install and operate and only needs a standard electrical supply and a PC. Texts are created with TagPrint Pro 4.0. Simply open the easy to use program to create print lists.

Improved cooling system now ensures a continuous operation between 8-10 hours.

Marker plates are attached to pipes and cables using 4.6 mm width MBT cable ties and a MK9SST hand tool.

Features and benefits

- Small and easy to use metal plate embosser
- Quiet embossing mechanism suited to production and office environments
- Embossed characters have been tested to withstand 1.5 million strikes each
- Improved cooling systems allows 8-10 hours continuous printing
- Use Tagprint Pro labelling software with pre-loaded templates to simplify print jobs
- 43 piece character set as standard - can be upgraded to 60 characters
- Letters: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
- Numbers: 0 1 2 3 4 5 6 7 8 9
- Symbols: & - / . , ' +
- Other symbols available on request

1.5 million strikes per character without maintenance

Software TagPrint Pro for troublefree printing
see www.HellermannTyton.com/products/printers-and-software.



A quiet, durable, and easy to use metal plate embossing printer.



M-BOSS Compact embossing process.

Print Method	embossing
Power Supply	AC 110V-240V, 45/65 Hz, 1.5A-3A
Cycle Time	< 1 second per character
Interfaces	USB 2.0
System Requirements	Win 7, 8, 10, 11
Dimensions W x H x D	480mm x 355mm x 570mm
Weight	41.0 kg



TYPE	Article-No.
M-BOSS Compact	544-20000

Subject to technical changes.



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



Stainless steel embossing system

M-BOSS Compact including Organiser

The M-BOSS Compact with included Organiser system gives the added advantage of a self-contained storage system within the print unit. The organiser is a 10 container carousel storage system that can be programmed to hold either an individual or a pre-defined set of marker plates. This means that users have the flexibility to manage how they work with the printed output. A simple input screen on the top of the machine is used to specify the quantity per container within the carousel. The carousel drawer when opened extends 430 mm from the front of the printer.

Features and benefits

- Ability to manage how the printed marker plates are organised
- Carousel system under the printer has 10 removable marker plate containers
- Flexible output means all marker plates or a set amount can be sent to each container
- Carousel system will hold up to 400 markers
- Each container can hold 40 marker plates



A simple solution to managing your printer output.



Organiser for M-BOSS Compact.

MATERIAL	Metal (MET)
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TYPE	Article-No.
M-BOSS Compact Organiser	544-21000

Subject to technical changes.



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



Stainless steel printing system

M-BOSS Compact Markers

M-BOSS Compact Markers are used in all areas where severe mechanical or chemical conditions occur e.g. offshore industry, marine engineering, petrochemical industry, mining, underground or on radio and cellular masts where mark permanence is critical.

The raised surface of the embossed print ensures that the text remains visible even with dirt, grease, and paint cover the marker. The physical characteristics of the metal and the height of the embossed mark allows users to apply a stiff or metallic brush to the surface and remove excess layers of paint or grease without damaging the integrity of the text.

Features and benefits

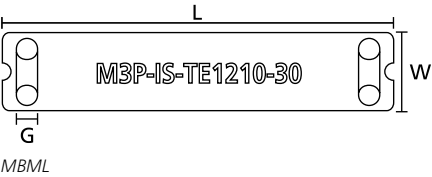
- Raised marking ensure text visibility even when covered in dust, debris, grease and oil
- Made of stainless steel grade SS316L, suited for use in harsh environments
- Marker plates are designed for use with stainless steel cable ties with a 4.6 mm strap width
- Apply ties with a MK9SST metal cable tie tool
- Corrosion and weather resistant
- Outstanding chemical resistance
- Non-burning



Marker plates designed to survive the harshest environments.

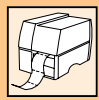


A range of metal plate sizes to suit your needs.



TYPE	Strap Width max. (G)	Number of lines	Characters per line	Number of characters	Width (W)	Length (L)	Pack Cont.	Article-No.
MBML10X45	4.6	1	8	8	10.0	44.5	1000 pcs.	544-80101
MBML10X90	4.6	1	23	23	10.0	89.5	500 pcs.	544-80102
MBML20X45	4.6	3	8	24	20.0	44.5	1000 pcs.	544-80201
MBML20X90	4.6	3	23	69	20.0	89.5	500 pcs.	544-80202

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



Labelling software

TagPrint Pro 5

TagPrint Pro 5 is the powerful software for the professional design and automated printing of labels, cable labelling, shrink sleeves and signs - perfectly matched to all HellermannTyton printing systems. The new template wizard makes it particularly quick to get started: select product, customise layout, add elements - done. TagPrint Pro impresses with a wide range of intelligent functions for efficient, customised and data-based labelling solutions - intuitive to use and easy to integrate into existing work processes.

TagPrint Pro 5 is the complete solution for professional, automated labelling.

Features and benefits

- Intuitive user interface with a modern design
- Innovative template wizard for a quick start
- Text, graphic and barcode functions
- Open Excel files - no import needed
- New file format for combining layout and data
- Printing on multiple devices simultaneously
- Project explorer for automated printing processes
- Multilingual user interface

Find out more about TagPrint Pro here:
www.HellermannTyton.com/tagprint-pro



Printing Software TagPrint Pro 5. Effortless labelling, powerful results.



One-step printing of label jobs to one or more printers simultaneously.

System Requirements	IBM compatible PC Microsoft Windows 10, Windows 11 4 GB of RAM (recommended) 160 MB of available hard-disk space
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TYPE	Description	Article-No.
TagPrintPro5-Upgrade-EMEA	Single-user license - Upgrade from TagPrint Pro 4.0	556-00065

Subject to technical changes.



Thermal transfer printer

TT431, Small to medium volume printing

The TT431 thermal transfer printer is perfect for printing on HellermannTyton materials such as self-adhesive labels, shrinkable tubing and identification tags. Thanks to its low weight and compact construction, the TT431 integrates seamlessly into any workstation. It is easy to use due to its intuitive colour LCD touch display and clear status messages which can be shown in multiple languages. The optional cutter and perforator make this printer ideal for a wide range of applications. 300 dpi resolution ensures that barcodes, warning symbols, logos and text are as sharp as they can be.

Features and benefits

- Small to medium volume single sided printing
- Print on HellermannTyton cable markers and labels
- Uses standard ribbons
- Barcodes: standard and 2D
- Print speed up to 150 mm/s
- Adjustable label sensor
- Multiple language selection
- Windows drivers: 32/64 Bit Windows Vista, 7, 8, 10, 11, Windows Server 2008, 2008 R2, 2012, 2012 R2, 2016, 2019



TT431 thermal transfer printer designed for ease of operation.

Print Method	thermal transfer print
Print Head Type	300 dpi, flat type
Print Speed	up to 150 mm/s
Max. Print Width	105.70 mm
Print Material Height Max (metric)	4000 mm
Interfaces	USB 2.0, Ethernet 10/100 Base T, RS232
Supported Barcodes	Standard and 2D
Printer Memory	256 MB RAM
Dimensions W x H x D	253mm x 189mm x 322mm
Weight	5.52 kg

RoHS ✓

TYPE	Description	Article-No.
TT431	Thermal transfer printer TT431	556-00400
TT430/TT431 300dpi Printhead	Printhead for TT431	556-00453
TT430/TT431 Print Roller	Print Roller for TT431	556-00454
S430 Cutter	Cutter for TT431	556-00452
P430 Perforator	Perforator for TT431	556-00456
TT External Reel Holder	External Reel Holder	556-00451

All dimensions in mm. Subject to technical changes.





Thermal transfer printer

TT4030, High volume printing

HellermannTyton's premium printer TT4030 is specifically designed for medium and heavy duty industrial applications. The 300 dpi print head fulfils all standard requirements for printing bar codes, warning signs, logos and written information. Optional premium quality accessories such as a perforator and cutter are designed to work seamlessly with the printer and will suit the most demanding needs.

Printing high definition graphics such as 2d barcodes, standard bar codes, numbers and text on adhesive labels, thermo plastics such as heat shrink and cable markers (Tiptags) is easily done.

A colour LCD Touchscreen with modern user interface helps intuitive operation.

Creation of professional looking industrial identification is simplified by the use of HellermannTyton's label creation software TagPrint Pro.

Whether in stand-alone mode, as a PC application or in a network - the robust TT4030 printers can meet every requirement.

Features and benefits

- High volume single sided printing
- Print on HellermannTyton heatshrink tubing, cable markers and labels
- Uses standard 300 m ribbons
- Barcodes: standard and 2D
- Print speed up to 300 mm/s (30 mm/s recommended for ladder style products and tubing)
- Multiple language selection
- Windows drivers: 32 / 64 bit for Windows XP, Windows Vista, Windows 7, 8, 10, 11



TT4030 thermal transfer printer for high volumes.

Print Method	thermal transfer print
Print Head Type	300 dpi, flat type
Print Speed	up to 300mm/s
Max. Print Width	105.70 mm
Print Material Height Max (metric)	2000 mm
Interfaces	RS232 C, USB 2.0, Ethernet 10/100 Base T
Supported Barcodes	Standard, 2D
Printer Memory	256 MB RAM
Dimensions W x H x D	252mm x 288mm x 460mm
Weight	11.38 kg

RoHS



TYPE	Description	Article-No.
TT4030	Thermal transfer printer TT4030	556-04037
TT4030 Printhead	Printhead for TT4030	556-04041
Printer Roller TT4030/TT4000+	Printer Roller for TT4030/TT4000+	556-04005
S4030 Cutter	S4030 Cutter for TT4030	556-04050
P4030 Perforator	Perforator for TT4030	556-04051
TT External Reel Holder	External Reel Holder	556-00451

Subject to technical changes.



Thermal transfer ribbons for

Adhesive Labels

The thermal transfer print technology is based on heating up certain dots in the print head. This transfers the ink very precisely from the ribbon onto the surface of the printed material. All HellermannTyton ribbons consist of a special resin composition to maximise print performance. In combination with HellermannTyton printers the ribbons ensure the highest of print quality on all HellermannTyton thermal printable identification materials.

Features and benefits

- Thermal transfer ribbons for highest quality and performance of printed labels
- Ribbons are specifically designed to maximise print performance for the recommended material

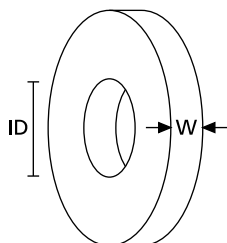


Easy application of ribbons on HellermannTyton thermal transfer printers.



Ribbons for printing on adhesive labels.

ID: The standard inside core diameter for all the ribbons is 25.4 mm.



TYPE	Recommended Material	Colour	Width (W)	Reel Length	Article-No.
TT822OUT 60MM	323, 892, 934, 1203, 1204, 1206, 1211, 1213, 1221, 1232, 1251	Black (BK)	60.0	300 m	556-00111
TT822OUT 110MM	323, 892, 1203, 1204, 1206, 1211, 1213, 1220, 1221, 1232, 1251	Black (BK)	110.0	300 m	556-00101
TT932DOOUT 85MM	323, 896	Black (BK)	85.0	300 m	556-00117
TT932DOOUT 110MM	323, 896	Black (BK)	110.0	300 m	556-00118
TT122OUT 60MM	1220, 1221	Black (BK)	60.0	300 m	556-00060
TT122OUT 110MM	1220, 1221	Black (BK)	110.0	300 m	556-00061
TTRR 110	1220, 1221	Red (RD)	110.0	300 m	556-00208

All dimensions in mm. Subject to technical changes.



Thermal printer ribbons for

Heatshrink and Tiptags

The thermal transfer print technology is based on heating up certain dots in the print head. This transfers the ink very precisely from the ribbon onto the surface of the printed material. All HellermannTyton ribbons consist of a special resin composition to maximise print performance. In combination with HellermannTyton printers the ribbons ensure the highest of print quality on all HellermannTyton thermal printable identification materials.

Features and benefits

- Thermal transfer ribbons for high quality print results on heat shrink tubing and Tiptag identification tags
- Ribbons are specifically designed to maximize print performance for the recommended material

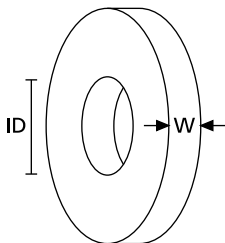


Easy application of ribbons on HellermannTyton thermal transfer printers.



Ribbons for printing on tubes and Tiptags.

ID: The standard inside core diameter for all the ribbons is 25.4 mm.



TYPE	Recommended Material	Colour	Width (W)	Reel Length	Article-No.
TT822OUT8 110MM	TCGT, TULT	Silver (SR)	110.0	300 m	556-00161
TTRC+ 30MM	TIPTAG PU, TAGPU/LOOP	Black (BK)	30.0	300 m	556-00114
TTRC+ 60MM	TIPTAG PU, TAGPU/LOOP	Black (BK)	60.0	300 m	556-00115
TTRC+ 100MM	TIPTAG PU, TAGPU/LOOP	Black (BK)	100.0	300 m	556-00103

All dimensions in mm. Subject to technical changes.



Manual tensioning tool for metal ties MBT-Series

MK9SST up to 16.0 mm strap width

The MK9SST is constructed with heavy duty parts to ensure optimum performance. It is designed to apply our MBT cable ties with a strap width of up to 16 mm. The tool is ideally suited for use in most arduous environments such as found on board ships, oil rigs, constructions or in nuclear power stations.

Features and benefits

- Glass fiber reinforced housing for extra durability.
- Ergonomic design protects against repetitive strain injuries.
- Calibrated for consistent tensioning and cutting of MBT/MAT-series metal ties.



MK9SST.

TYPE	Strap Width max.	Strap Thickness max.	Weight	Article-No.
MK9SST	16.0	0.5	0.514 kg	110-95000
SP MK9SST replacement blade	-	-	0.004 kg	110-95273

All dimensions in mm. Subject to technical changes.



Pneumatic tensioning tool with ergonomic design

EVO7p up to 4.8 mm strap width

Powered by compressed air at a pressure of up to 6 bars, the EVO7p is most beneficial in mass production environments, whether on the assembly line or in cable fabrication.

Features and benefits

- Unique levels of repeatability and accuracy
- High application speed and low maintenance
- Improved compressed air supply for faster tensioning piston movement
- Shorter processing time and greater volume of connecting tie application
- Ergonomic design
- Automatic ejection of cut-off cable tie end
- Ideally designed to apply heavy-duty ties (T50-T250), clamp and button head ties
- Low weight, comfortable grip and easy trigger depression



Air Supply	non oiled, oiled
MATERIAL	Various (DIV)
Air Pressure (min.)	3 Bar
Air Pressure (max.)	6 Bar
Hose Internal Diameter	4.0 mm

RoHS ✓

TYPE	Description	Strap Thickness max.	Weight	Article-No.
EVO7p_with_counting_function	-	1.5	0.36 kg	110-03710
EVO7p	EVO7p	1.5	0.36 kg	110-03700

All dimensions in mm. Subject to technical changes.



Cordless Heat Gun - Gas powered

CHG900

The HellermannTyton CHG900 Cordless Heat Gun is powered by P445 and PBG446 gas cartridges, providing autonomous working of 60 until 90 minutes in one go. The tool is designed to produce flameless heat which makes it the ideal hot-air gun to apply a huge variety of heat shrink tubing and heat shrink wire markers as well as molded shapes or heat shrink boots, transition shapes, end caps and cable repair sleeves especially in harsh outdoor conditions covering freezing temperatures as low as -8 °C.

Features and benefits

- Cordless heat gun powered by P445 and PBG446 gas cartridges
- Flameless heat - no direct flame outlet
- Autonomous operating time: 60-90 mn
- Qualified for harsh outdoor conditions (-8 °C)
- Lightweight 440 g tool (555 g incl. cartridge)
- Hands-free operation due to integrated standing pod
- Quick start piezo ignition
- Instant turnaround due to antifiare feature
- Precise gas flow adjustment
- Ergonomic rugged design
- Quick gas cartridge exchange
- Tool-free maintenance



HellermannTyton Cordless Heat Gun Kit - CHG900.



Gas Nozzle for CHG900 Heat Gun.



Piezo Ignition Trigger for CHG900 Heat Gun.

TYPE	Description	Article-No.
CHG900	Cordless Heat Gun - CHG900 Set incl. P445 Gas Cartridge and 2 nozzles.	391-90010
Piezo CHG900	CHG900 Spare Part - Piezo Ignition Trigger.	391-90011
Gas Nozzle	CHG900 Spare Part - Gas Nozzle.	391-90012
P445	P445 Gas Cartridge (Butane, Propane, Propene).	391-90101

Subject to technical changes.

Global certification – we train everyday.

Seeing far ahead increases safety: HellermannTyton is an IRIS-certified specialist in railway cable management solutions that take the material requirements of tomorrow into account today. That's why our products don't just meet standards, but usually exceed them. First class all the way.

www.HellermannTyton.com/Made-For-Rail

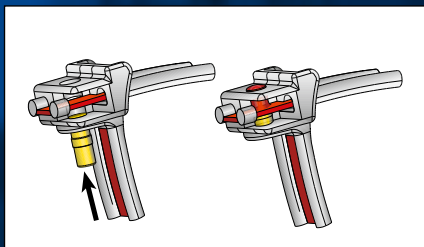
MADE FOR REAL 



Durable
identification
for harsh
environments



Premium EMI
protection with
Twist-In-EMIZ



Patented cable ties
for high vibration
environments