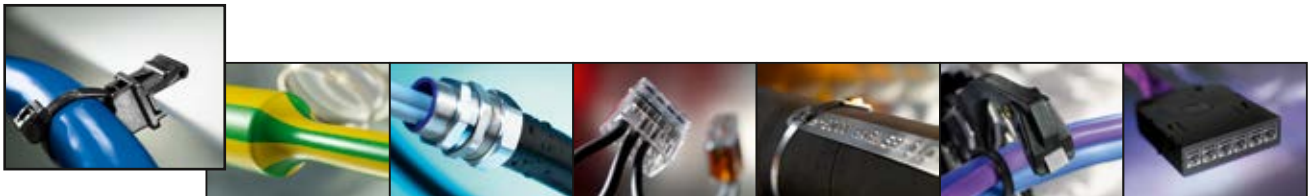




Fixing Ties and Elements for High Temperature Applications



Tailor-made plastic components for high applications - developed for your individ



temperature
ual needs.

Experienced partner at your side

HellermannTyton is your experienced partner for high quality, cost-effective cable management solutions. We are a leading provider of cable management systems, cable protection, identification solutions and data network technology, and have worked closely with customers in a range of industries over many years. How do our customers profit from this? We are always close to you, talking to you to create solutions tailored precisely to your individual needs. Decision-making paths are shortened, and your knowledge is bundled with ours to achieve the very best results for each project.

Our expertise

'Resident engineering' is the most profitable form of knowledge transfer. For large-scale or special projects, we can locate our experts directly in your business. But not only are our visionary developers and highly experienced technical experts at your side wherever you are in the world. Local distributors in our comprehensive global network are always nearby to assist whenever you need us. At HellermannTyton, excellence in development competence goes hand in hand with expertise in sales and logistics. Integrate the advantages we offer into your own development projects. Tell us where you want to take your industry, and we will deliver the solution to help you get there.

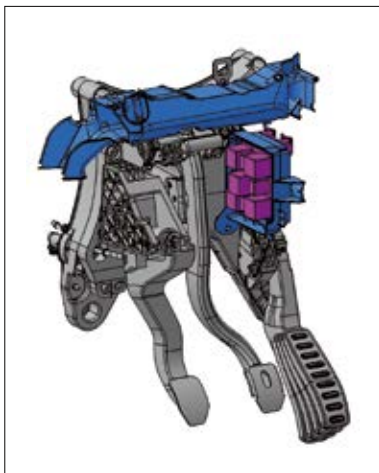


You continuously look for ways to optimize.
We are developing the solutions to do it.



Optimise your products.

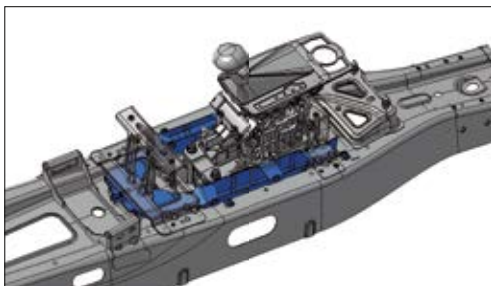
High temperature is a key issue from the automotive industry to aerospace, rail and shipping, engineers face challenges posed by high temperature scenarios time and again. For over 75 years we have been applying our experience and innovative drive for the benefit of our customers in markets throughout the world.



Cable duct: Critical for positioning the entire wiring system, robust design for safe cable harness installation.



Bracket: Mount design with hook-in solution and additional direct threaded mount that saves production time.



Cable duct: Space-optimised design, innovative clip with utility-model-protected functional elements.

We develop products tailored to your specifications. To do this we rely on state-of-the-art CAD and rapid prototyping systems. Through the use of advanced development tools, our experienced designers guarantee a high level of quality in all our products. The result: innovative solutions and the chance for you to profit from these advantages.

Save development time

Our product developers work simultaneously with your engineers while we develop the solution. This shortens the development phase, even for parts whose dimensions have not yet been fully finalised.

Reduce weight

Replace metal by plastic without compromising on quality and performance. HellermannTyton injection-moulded parts offer complete freedom in geometric design, allowing easier integration of other functional elements. They are also corrosion-resistant.

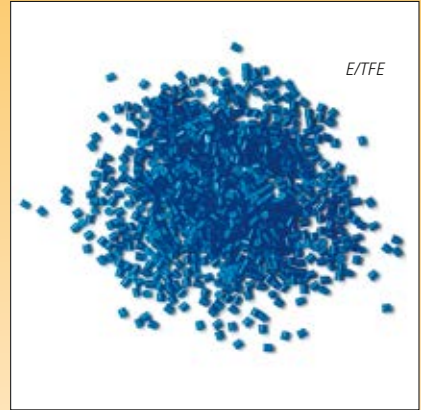
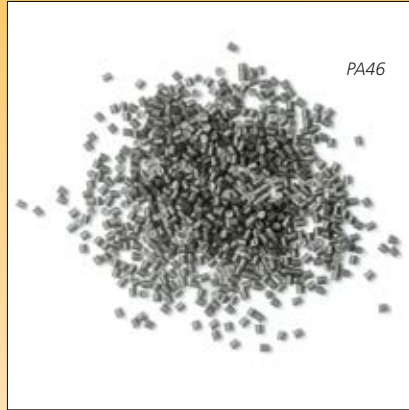
Reduce component diversity

Using our targeted cable-set analyses, we are able to offer you cost-effective alternatives, demonstrate the application of preferred parts and show you how components can be optimised.

Choose the right material

Our many years' experience in product development will help you in choosing the right materials. If a suitable material for your application does not already exist, we will work closely with you and our raw materials suppliers to develop one. We are your reliable partner throughout the entire development process – from initial contact to serial production. Would you like to know more about how we can support you in product development? Contact us to find out or visit us on <http://www.HellermannTyton.de/3D>.

We replace metal solutions with plastic components - even for high temperatures.



We can replace metal with plastics such as PA46, PEEK and E/TFE (Tefzel®) even in applications involving a high operating temperature, and develop customised products made from plastics to meet your individual demands. Our customers profit from the many advantages offered by plastics, such as chemical resistance, reduced weight, greater flexibility, and processing ease.

Polyetheretherketone (PEEK) is a semi-crystalline, high-performance polymer. It is considered to be the highest-performing thermoplastic currently on the market. PEEK products are suitable for applications up to +240 °C (continuous operating temperature).

Polyamide 4.6 (PA46) is a temperature-resistant, semi-crystalline polyamid. Due to its comparatively good heat resistance, it is suitable for applications up to +150 °C (continuous operating temperature).

Ethylene Tetrafluoroethylene (E/TFE) is a fluorinated Copolymer that is also known as Tefzel®. This highly resistant thermoplastic material is ideal for use in aggressive chemical environments up to +170 °C (continuous operating temperature).

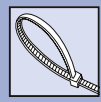
General linguistic usage for cable ties made from raw material E/TFE is Tefzel®-Tie. In addition to Tefzel® from DuPont HellermannTyton is also using equivalent E/TFE raw material from other suppliers.

MATERIAL	Material Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	Material Specifications
Polyetheretherketone	PEEK	-55 °C to +240 °C	Beige (BGE)	UL94 V0	<ul style="list-style-type: none"> Resistance to radioactivity Not moisture sensitive Good chemical resistance to: acids, bases, oxidizing agents 	HF RoHS LFH
Polyamide 4.6	PA46	-40 °C to +150 °C (5000 h), +195 °C (500 h)	Natural (NA), Grey (GY)	UL94 V2	<ul style="list-style-type: none"> Resistance to high temperatures Very moisture sensitive Low smoke sensitive 	HF RoHS LFH
Ethylene Tetrafluoroethylene	E/TFE	-80 °C to +170 °C	Blue (BU)	UL94 V0	<ul style="list-style-type: none"> Resistance to radioactivity UV- resistant, not moisture sensitive Good chemical resistance to: acids, bases, oxidizing agents 	RoHS

*These details are only rough guide values. They should be regarded as a material specification and are no substitute for a suitability test. Please see our datasheets for further details.

**More colours on request.

 = Minimum Tensile Strength



PEEK products for high temperature applications up to +240 °C

PEEK has been designed for use in hazardous environments. As well as having excellent radiation resistance properties, it is highly resistant to chemicals. PEEK products are suitable for use in various applications and industrial sectors. We replace metal components with solutions made of plastic. Due to its combined properties, PEEK can be used instead of metal components to offer unique weight advantages in your applications.

Features and Benefits

- For high temperature applications from -55 °C to +240 °C
- Weight advantages compared to metall
- Excellent radition and chemical resistance
- Outstanding wear resistance over wide ranges of pressure, velocity, temperature and counter facial roughness

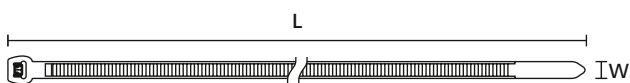


The contoured head takes up less space, gives a low insertion force and offers high strength.

PEEK Ties, inside serrated

Features and Benefits

- For high temperature applications from -55° C up to +240° C
- Close-fitting to the cable bundle due to the deepening head shape
- Easy insertion combined with high tensile strength
- Takes up less space due to curved head
- Conjuncts performance of a metal tie with the ease of use of a polyamide cable tie
- Easy application either manually or with a processing tool



PEEK-Series



PT220.

TYPE	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N	Material	Colour	Pack Cont.	Article-No.
PT220	4.7	220.0	8.0	56.0	380	PEEK	Beige (BGE)	100 pcs.	111-01235

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

PEEK Ties, outside serrated

Features and Benefits

- For high temperature applications from -55° C up to +240° C
- Outside serrated cable tie with smooth surface to the bundle
- Close fit to the cable bundle due to the deepening head shape
- Easy insertion combined with high tensile strength
- Takes up less space due to the curved head
- Combines the performance of a metal tie with the ease of use of a polyamide cable tie
- Easy application either manually or with a processing tool



PEEK-Series



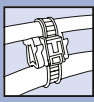
PEEK cable tie PT2A.

TYPE	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N	Material	Colour	Pack Cont.	Article-No.
PT2A	3.4	145.0	4.0	35.0	230	PEEK	Beige (BGE)	100 pcs.	118-00032
PT3B	4.7	250.0	-	65.0	300	PEEK	Beige (BGE)	100 pcs.	118-00116

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



Please note! Not all products listed on this page may have this approval.



Polyetheretherketone (PEEK)

Cable Ties With Fixing Elements

1-Piece Fixing Tie with Arrowhead, with Disc

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

Features and Benefits

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



PT2ASFT6.5PT0.7-1.5-E



One piece fixing tie with arrowhead, outside serrated.

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø	Hole Ø (FH)	Material	Colour	Article-No.
PT2ASFT6.5PT0.7-1.5-E	3.4	112.7	20.0	230	16.0	6.3 - 6.7	PEEK	Beige (BGE)	126-00183

All dimensions in mm. Subject to technical changes.

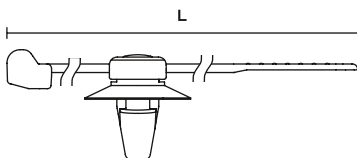
More variants and dimensions are available on request. Please contact us for more information.

2-Piece Fixing Ties with Arrowhead, with Disc

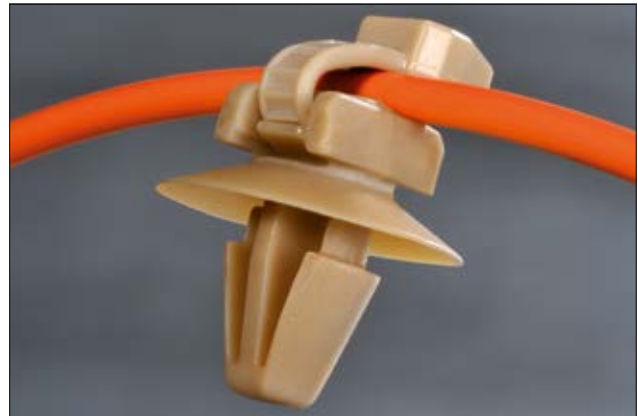
Primarily designed for fixing cable harnesses in the automotive industry their simplicity and ease of use has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

Features and Benefits

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



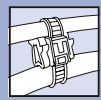
Two piece fixing tie with moveable arrowhead



Peek FixingTies can be used for small diameters from 1.0 mm.

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø	Hole Ø (FH)	Panel Thickness	Material Cable Tie	Material Foot Part	Colour	Article-No.
PT2AP3SFT6.5	3.4	145.0	32.0	230	16.0	6.3 - 6.7	1.2 - 1.8	PEEK	PEEK	Beige (BGE)	156-01146
PT2AP1SFT6.5	3.4	145.0	35.0	230	16.0	6.3 - 6.7	0.7 - 1.3	PEEK	PEEK	Beige (BGE)	156-01090
PT2AP2SFT6.5	3.4	145.0	35.0	230	16.0	6.3 - 6.7	1.7 - 2.3	PEEK	PEEK	Beige (BGE)	156-01091

All dimensions in mm. Subject to technical changes.



2-Piece Fixing Ties with Arrowhead, with Disc, for high temperature applications

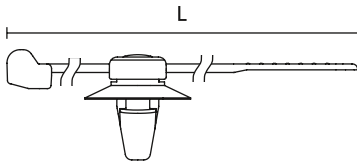
The ties with fixing element P1SFT6,5 or P2SFT6,5 are ideal when the requirement for temperature or chemical resistance is very high. They are used for cable harnesses in the automotive industry.

Features and Benefits

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

Features material PEEK

- -55 °C to +240 °C operating temperature
- Excellent resistance against chemicals and gamma radiation



Two piece fixing tie with moveable arrowhead



T50ROSP1SFT6.5.

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

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Hole Ø (FH)	Panel Thickness	Material Cable Tie	Material Foot Part	Colour	Article-No.
T50ROSP1SFT65	4.6	200.0	45.0	225	6.3 - 6.7	0.7 - 1.3	PA46	PEEK	Grey (GY), Beige (BGE)	156-00455
T50ROSP2SFT65	4.6	200.0	45.0	225	6.3 - 6.7	1.7 - 2.3	PA46	PEEK	Grey (GY), Beige (BGE)	156-00456

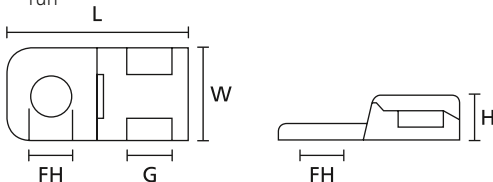
All dimensions in mm. Subject to technical changes.

Screw Fixing Mounts

Each of these products offer particular benefits, but all are designed for simple, yet robust, installation in a wide variety of applications. Particularly used in telecoms equipment, switchgear and control cabinets.

Features and Benefits

- Suitable for applications with minimal space
- Mounted before cable installation and in line with cable
- CTAM has 4-way entry design for use in line or at 90° angle to cable run



CTAM Series

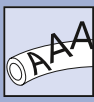


CTAM mounts, for applications with limited space.

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
CTAM1	10.2	20.5	5.5	4.3	4.6	PEEK	Beige (BGE)	100 pcs.	151-00757
CTAM2	10.2	20.5	5.5	5.2	4.6	PEEK	Beige (BGE)	100 pcs.	151-00758

All dimensions in mm. Subject to technical changes.

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



Identification plates for marking cable bundles

PEEK tags have been specifically designed for use in high temperature environments. The HFTP tags are applied to cables and harness assemblies with cable ties, and are also suitable for retrofit purposes. The material has been conditioned for printing with a laser beam and gives both excellent print definition and print durability.

Features and Benefits

- HFTP is an aerospace standard Tiptag
- Laser beam printable
- Available in beige
- Fixed with PEEK cable ties



AT2

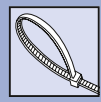


A clearly better way of identifying cables and pipes.

TYPE	Length (L)	Width (W)	Pack Cont.	Colour	Material	Article-No.
HFTP48	48.0	9.5	2,500	Beige (BGE)	PEEK	151-00911

All dimensions in mm. Subject to technical changes.

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



Polyamide 4.6 products for temperature applications up to +150 °C

Polyamide 4.6 is suitable for temperature applications up to +150° C. Besides its resistance to high temperatures, PA46 is also highly rigid. PA46 products also offer good fire safety properties at higher temperatures and excellent resistance to chemicals.

Features and Benefits

- For temperatures ranging from -40 °C to +150 °C
- High-quality plastic that can be recycled easily
- High rigidity, even at higher temperatures
- High operating temperature range up to +150 °C (5,000 hours)
- High dimensional stability, even under the effect of heat
- Very good fire safety properties
- Excellent resistance to chemicals



Application of PA46 cable ties at a truck exhaust unit.

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

Cable Ties for temperatures up to +150 °C in Polyamide 4.6

• T-Series in PA46

These cable ties are used for routing, bundling and securing cables, pipes and hoses.

Features and Benefits

- Higher temperature cable tie available in a wide range sizes
- Made from 100% high quality plastic, allows for good recycling
- Inside serration for a strong hold around bundles
- Easy application either manually or with a processing tool
- Simple to insert due to the ergonomically bent tail
- Higher temperature resistance up to +150 °C



T-Series.

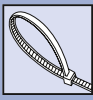


T-Series.

TYPE	Width (W)	Length (L)	Bundle Ø max.		Material	Colour	Pack Cont.	Article-No.
T18R	2.5	100.0	22.0	80	PA46	Natural (NA)	1,000 pcs.	114-01879
T30R	3.5	150.0	35.0	135	PA46	Grey (GY)	100 pcs.	111-00968
	3.5	150.0	35.0	135	PA46	Natural (NA)	100 pcs.	114-03079
T50R	4.6	200.0	50.0	225	PA46	Grey (GY)	100 pcs.	111-00824
	4.6	200.0	50.0	225	PA46	Natural (NA)	100 pcs.	111-00525
T50I	4.6	300.0	85.0	225	PA46	Natural (NA)	100 pcs.	111-05220
T50L	4.6	390.0	110.0	225	PA46	Natural (NA)	100 pcs.	111-00526

All dimensions in mm. Subject to technical changes.

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



Polyamide 4.6 (PA46)

Cable Ties

Cable Ties for thin-walled bundles

- **Outside Serrated**

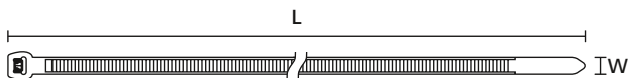
OS-Series are well-proven in many areas where thin-walled or soft insulation wires and cable are being installed, e. g. automotive and aircraft industry.

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
- Easy insertion and high tensile strength
- Easy application either manually or with a processing tool



The contoured head needs less installation space, provides low insertion force and offers high strength.



OS-Series

TYPE	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N	Material	Colour	Pack Cont.	Article-No.
T50ROS	4.6	200.0	1.6	50.0	225	PA46	Grey (GY)	500 pcs.	118-05078

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 90° angled head

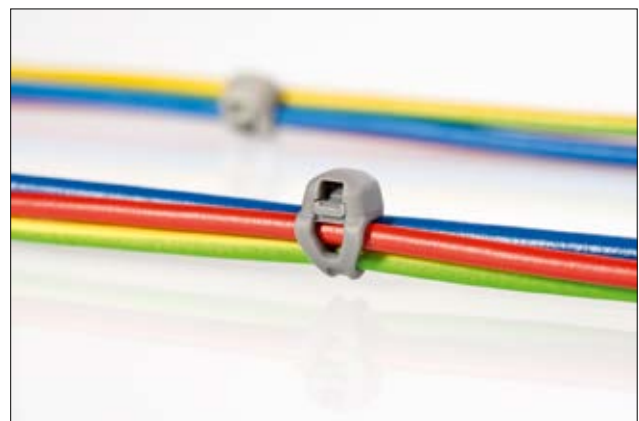
- **Outside Serrated**

Due to its low profile head, V-Series outside serrated cable ties are perfectly suited for applications with restricted space, such as camera and alarm systems and automation systems (Remote I/O Systems)

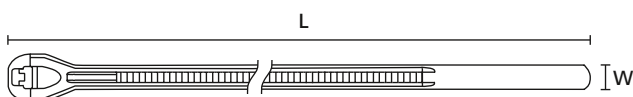
Where bundles are fed through a grommet or ductwork, V-Series provides a practical solution due to its unique rounded design.

Features and Benefits

- Outside serrated cable tie with smooth surface to the bundle
- Lentiform, 90° angled head
- Rounded head design minimises the risk of damage to insulation, especially for parallel routed bundles
- Low profile head takes up less space above the bundle
- Close fit to the cable bundle
- Easy insertion and high tensile strength
- Easy application either manually or with a processing tool



The outside serrated V-Series with less height above the bundle.



V-Series

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

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Pack Cont.	Article-No.
V100R	2.5	102.5	20.0	100	PA46	Grey (GY)	100 pcs.	118-00109
V150R	3.3	150.0	35.0	150	PA46	Grey (GY)	100 pcs.	118-00107

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 for parallel routing

• DH-Series

Ideal for running two cables in parallel, but separated. DH-Series can be used for cable harnesses like in the automotive or white goods industry.

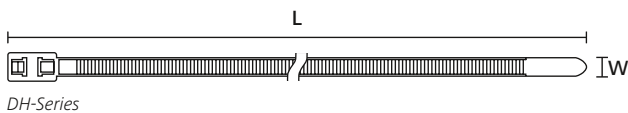
Features and Benefits

- Cable tie designed with two heads which creates an inside and outside serrated loop
- For parallel routing of two bundles with only one cable tie
- Bundles can be of different diameter
- Easy application either manually or with a processing tool



Parallel routing of two cable bundles using DH-Series. The double head creates an inside and an outside serrated loop.

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



DH-Series

TYPE	Width (W)	Length (L)	Ø max. side loops		Min. Tensile Strength 2nd loop (M)	Material	Colour	Pack Cont.	Article-No.
T50RDH	4.7	210.0	19.0	225	180 N	PA46	Grey (GY)	100 pcs.	117-05168

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 locked by glass fibre pin

• KR-Series, 1-Piece

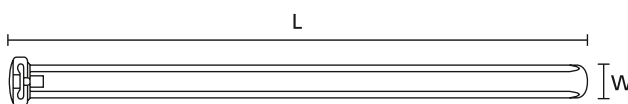
In addition to offering a secure method of bundling cables, the design of the KR ties makes them ideal for use as a method of securing bellows on steering racks, water hoses and vacuum lines.

Features and Benefits

- Patented cable tie system
- Smooth strap which is locked into place with a glass-fibre reinforced pin
- For assembly a special KR-tool is needed
- Very secure and vibration resistant fixing



The KR8/33 has been repeatedly proven in High Vibration applications.

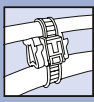


Cable ties KR-Series

TYPE	Width (W)	Length (L)	Bundle Ø max.		Material	Colour	Pack Cont.	Article-No.
KR8/33	8.0	337.0	86.0	785	PA46	Grey (GY)	50 pcs.	121-83378

All dimensions in mm. Subject to technical changes.

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



Polyamide 4.6 (PA46)

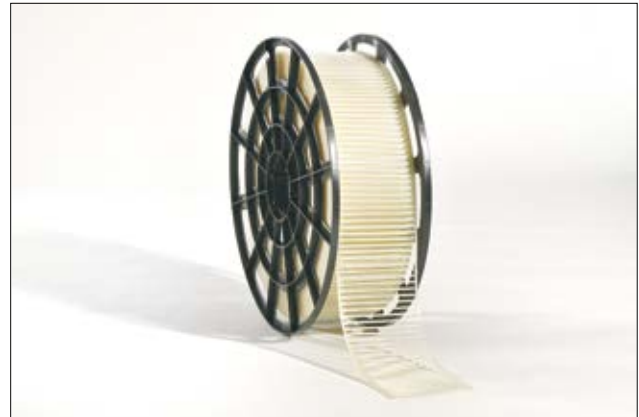
Cable Ties With Fixing Elements

Automatic bundling up to Ø 20 mm Cable ties for Autotool 2000 Series

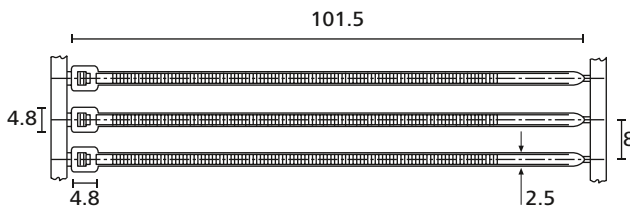
The reliability, ergonomics, simple handling and flexibility makes the HellermannTyton Autotool 2000 ideal for the diverse applications where high quantity is required, e.g. in cable assemblies for automotive, electronics, TV and domestic appliances, packaging of bags and the bundling of parts together. The system suits both the high volume use of ties or where flexible production practices are necessary. Overall the Autotool 2000 gives full, flexible and cost effective utilization of labour and maximises efficiency.

Features and Benefits

- Entirely plastic and easily recyclable
- Secure hold on bundles
- Bundles up to diameter of 20 mm
- Flush cut-off
- Other colours available on request
- Handles bandoleer of 50 or reels of 3500 cable ties



Cable ties for Autotool 2000.



T18RA band chain for AT2000

TYPE	Bundle Ø max.		Colour	Material	Pack Cont.	Article-No.
T18RA3500	20.0	80	Natural (NA)	PA46	3,500 pcs.	120-46009

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Arrowhead, with Wings in the strap

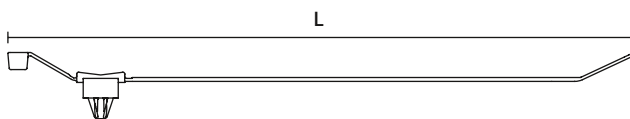
This range of fixing ties is ideal for use in many different industries, including automotive, aerospace and panel building.

Features and Benefits

- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Supporting legs provide a secure and firm fixing in areas where space is limited
- Bundle runs central across fixing point
- Cable tie head always situated in defined position
- For parallel routing of two bundles



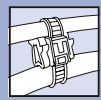
Designed to secure cables with parallel bundling the T80RSF6.5F offers a simple and secure fixing.



T80RSF6.5F

TYPE	Width (W)	Length (L)	Bundle Ø max.		Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
T80RSF6.5F	4.7	209.0	50.0	355	6.3 - 6.5	0.6 - 3.0	PA46	Grey (GY)	150-39395

All dimensions in mm. Subject to technical changes.

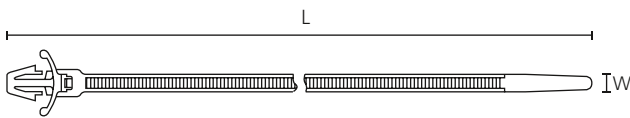


1-Piece Fixing Ties with Arrowhead, with Wings

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

Features and Benefits

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



T50SSL5



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

TYPE	Width (W)	Length (L)	Bundle Ø max.		Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
T50SSL5	4.6	135.0	27.0	225	6.1 - 6.5	0.5 - 2.7	PA46	Grey (GY)	111-85395

All dimensions in mm. Subject to technical changes.

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

1-Piece Fixing Ties with Arrowhead, with Wings, for Oval Holes

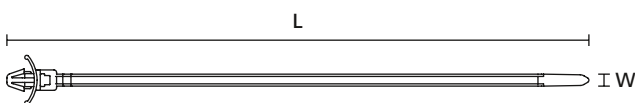
With a diverse range of fixing possibilities ideal for use in many different industries, including automotive, aerospace, white goods manufacture and panel building.

Features and Benefits

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



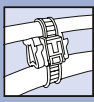
T80RFT6X12.



T80RFT6X12

TYPE	Width (W)	Length (L)	Bundle Ø max.		Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
T80RFT6X12	4.6	228.0	45.0	222	6.3 x 12.3	0.6 - 3.0	PA46	Grey (GY)	150-48397

All dimensions in mm. Subject to technical changes.



Polyamide 4.6 (PA46)

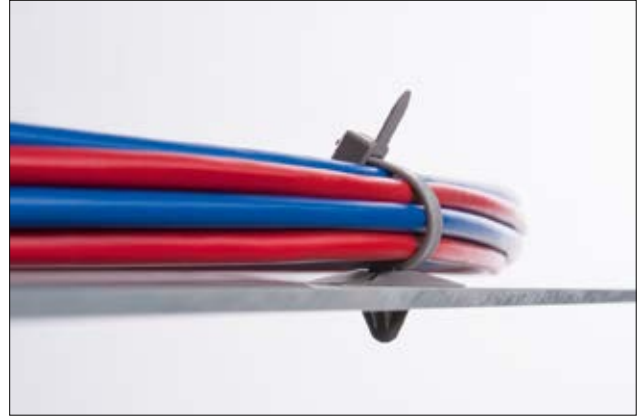
Cable Ties With Fixing Elements

1-Piece Fixing Ties with Arrowhead, with Disc in the strap

These fixing ties are ideal for use in many different industries, including automotive, aerospace and panel building.

Features and Benefits

- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressures from various directions and minimises access of dust, dirt and water
- Cable tie head always situated in defined position
- Bundle runs directly across fixing point
- Simple assembly due to tab at the end of the head



T80RSFT - The 'tab' on the head of the tie makes it easy to locate and lift the head for assembly.



T80RSFT

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
T80RSFT	4.6	190.0	45.0	355	24.4	5.7 - 6.3	1.0 - 3.5	PA46	Grey (GY)	150-15498

All dimensions in mm. Subject to technical changes.

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

1-Piece Fixing Tie with Arrowhead, with Disc

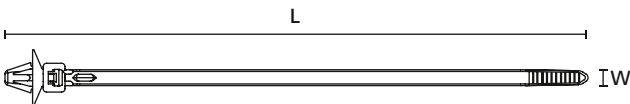
With a diverse range of fixing possibilities this range of fixing ties are ideal for use in many different industries, like automotive, aerospace, white goods manufacture and panel building.

Features and Benefits

- Arrowhead simply locks into place
- Disc covering hole for reduced ingress of dust, dirt and water
- Adjustable anchor for differing panel thickness to ensure secure fixing
- With small tab for additional protection against axial forces
- Useful to assist retention on convoluted tubing



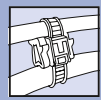
The flexible disc adjusts to make up variations in panel thickness - ensuring a firm fixing at all times.



T50SST5

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
T50SST5	4.6	170.0	31.0	225	16.2	6.1 - 6.5	0.7 - 1.5	PA46	Grey (GY)	150-35395

All dimensions in mm. Subject to technical changes.



2-Piece Fixing Ties with Arrowhead, for Oval Holes

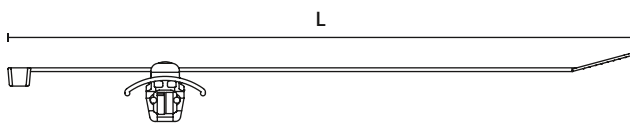
Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear manufacturer, white goods manufacturer.

Features and Benefits

- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Feature anti-twist protection



T50RFT62X122-HR - Being a two-piece assembly allows the tie head to be located in the most convenient position.



T50RFT62x122HR

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Hole Ø (FH)	Panel Thickness	Material Cable Tie	Material Foot Part	Colour	Article-No.
T50RFT62x122HR	4.6	202.0	45.0	225	6.3 x 12.2	0.6 - 3.0	PA46	PA46	Grey (GY)	156-00446

All dimensions in mm. Subject to technical changes.

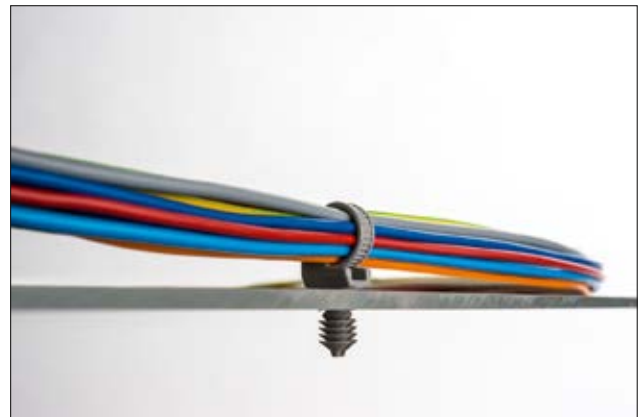
More variants and dimensions are available on request. Please contact us for more information.

1-Piece Fixing Ties with Fir Tree, with Disc

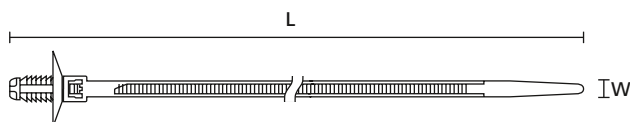
Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

Features and Benefits

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



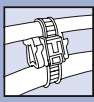
T50SOSFT6D10E - One piece fixing tie with fir tree foot part.



One piece fixing tie with fir tree mount, standard design

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
T50SOSFT6D10E	4.6	163.0	32.0	180	9.8	5.8 - 6.2	0.8 - 5.5	PA46	Grey (GY)	157-00028
T50SOSFT8E	4.6	163.0	35.0	225	16.0	8.0 - 8.5	0.6 - 6.0	PA46	Grey (GY)	157-00115
T50SOSFT6E	4.7	160.0	35.0	150	16.0	6.5 - 7.0	0.8 - 3.0	PA46	Grey (GY)	126-00100
T50SOSFT6E1	4.7	161.4	35.0	225	16.0	6.3 - 7.0	0.7 - 3.0	PA46	Grey (GY)	157-00059

All dimensions in mm. Subject to technical changes.



Polyamide 4.6 (PA46)

Cable Ties With Fixing Elements

1-Piece Fixing Ties with Fir Tree, with Disc, for Oval Holes

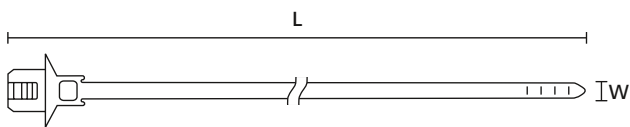
Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

Features and Benefits

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



T50SOS2DOP with fir tree and disc for oval holes.



T50SOS2DOP

TYPE	Width (W)	Length (L)	Bundle Ø max.		Panel Thickness	Hole Ø (FH)	Material	Colour	Article-No.
T50SOS2DOP	4.6	164.0	35.0	200	0.6 - 6.0	6.2 - 12.2	PA46	Grey (GY)	157-00069

All dimensions in mm. Subject to technical changes.

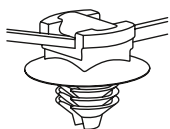
TYPE	Length (L)	Bundle Ø max.		Panel Thickness	Hole Ø (FH)	Material	Colour	Article-No.
T50ROSFTOVALU	225.0	50.0	222	0.6 - 6.0	6.2 x 12.2. 6.5 x 12.5. 6.5 x 13.0. 7.0 x 12.0	PA46	Brown (BN)	157-00157

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties with Fir Tree, with Disc

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, dirt and water
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes



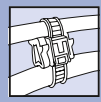
T50ROSFT6SD



T30RFT5.

TYPE	Width (W)	Length (L)	Bundle Ø max.		Disc Ø	Hole Ø (FH)	Panel Thickness	Material Cable Tie	Material Foot Part	Colour	Article-No.
T30RFT5	3.5	150.0	34.0	135	16.0	4.5 - 5.0	0.7 - 3.0	PA46	PA46	Natural (NA), Grey (GY)	150-55948
T50ROSFT6SD	4.6	200.0	45.0	225	16.0	6.4 - 7.1	0.8 - 3.0	PA46	PA46	Grey (GY)	156-00085
T50RFT6	4.6	202.0	45.0	225	16.0	6.4 - 7.1	0.8 - 3.0	PA46	PA46	Grey (GY)	150-77938
T50RFT8GSD	4.6	202.0	45.0	225	16.0	8.0 - 8.5	1.5 - 4.0	PA46	PA46	Grey (GY)	156-00235

All dimensions in mm. Subject to technical changes.



1-Piece Fixing Ties for Weld Studs (Hardpush), releasable

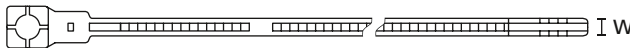
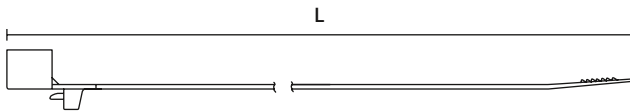
Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications. Where weld studs or ISO bolts are used and cables need to be bundled and secured.

Features and Benefits

- For special firm fit are hammered onto the stud
- For M8 threaded studs



SBR85 for M8 threaded studs.



SBR85

TYPE	Width (W)	Length (L)	Bundle Ø max.		Stud Ø	Material	Colour	Article-No.
SBR85	6.0	216.5	40.0	300	8.0	PA46	Grey (GY)	131-60058

All dimensions in mm. Subject to technical changes.

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

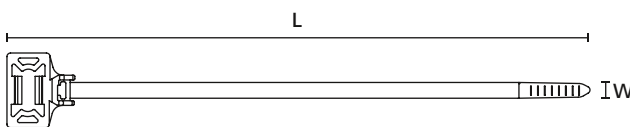
1-Piece Fixing Ties for Weld, moveable

Features and Benefits

- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Provides a 5 – 6 mm lateral adjustment possibility
- Very low profile, stackable design
- For bundles which need to be routed in different directions



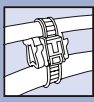
T50SOSWSP5E - for parallel installation using two fixing ties.



T50SOSWSP5E

TYPE	Width (W)	Length (L)	Bundle Ø max.		Stud Ø	Material	Colour	Article-No.
T50SOSWSP5E	4.6	163.0	35.0	200	5.0	PA46	Grey (GY)	157-00230

All dimensions in mm. Subject to technical changes.



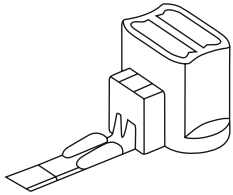
Polyamide 4.6 (PA46)

Cable Ties With Fixing Elements

1-Piece Fixing Ties for Weld, moveable

Features and Benefits


- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Provides a 5 – 6 mm lateral adjustment possibility



FixingTie_T50SOSSB5-High-E-C-CC



T50SOSSB5-High-E-C-CC.

TYPE	Width (W)	Length (L)	Bundle Ø max.		Stud Ø	Material	Colour	Article-No.
T50SOSSB5-High-E-C-CC	5.0	167.0	35.0	225	5.0	PA46	Grey (GY)	157-00229

All dimensions in mm. Subject to technical changes.

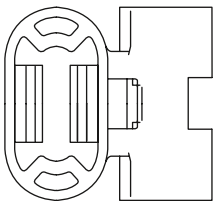
More variants and dimensions are available on request. Please contact us for more information.

2-Piece Fixing Ties for Weld Studs

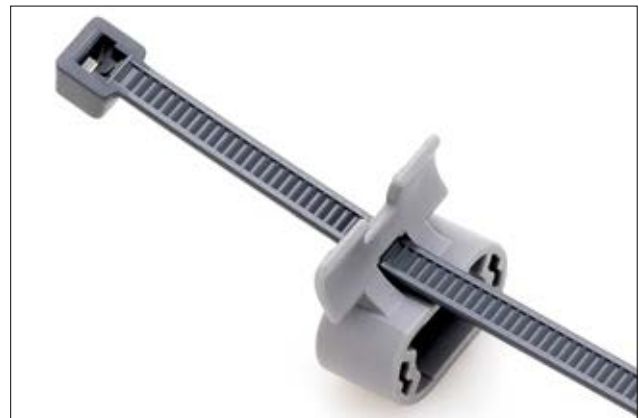
Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where 5 mm weld studs or 5 mm ISO bolts are used and cables need to be bundled and secured

Features and Benefits


- Pre-assembled with cable tie and weld stud mounting base
- Quick and easy installation
- Head rotates into perfect position for installation
- 'Soft-push' design for tool-free installation
- SB5 allow lateral tolerance for fixing point



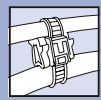
SB5



Pre-assembled 2-piece fixing tie with stud retainer.

TYPE	Width (W)	Length (L)	Bundle Ø max.		Stud Ø	Material Cable Tie	Material Foot Part	Colour	Article-No.
T50RSB5	4.6	202.0	45.0	225	5.0, 6.0	PA46	PA46	Grey (GY)	156-00084

All dimensions in mm. Subject to technical changes.



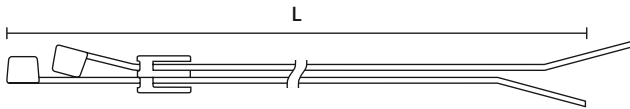
2-Piece Fixing Ties for parallel separation

Features and Benefits

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



T50RCOUPLER for parallel routing.



T50RCoupler with two ties

TYPE	Width (W)	Length (L)	Bundle Ø max.		Material Cable Tie	Material Foot Part	Colour	Article-No.
T50RCOUPLER	4.6	202.0	47.0	225	PA46	PA46	Grey (GY)	156-00382

All dimensions in mm. Subject to technical changes.

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

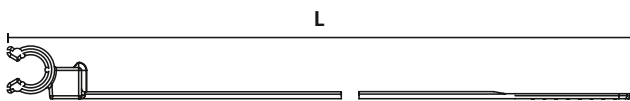
1-Piece Fixing Ties with Pipe Clip

Features and Benefits

- Easily locks onto a cable, tube or hose (D = 4.8 – 5.4 mm)
- Cable tie head always in defined position
- Suitable for post-installation of bundles



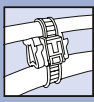
Brake cable fixing suitable for post installation of bundles.



Brake cable fixing

TYPE	Width (W)	Length (L)	Bundle Ø max.		Attach to Ø	Material	Colour	Article-No.
Bracket brake line	3.6	150.0	35.0	133	4.8 - 5.4	PA46	Grey (GY)	148-00101

All dimensions in mm. Subject to technical changes.



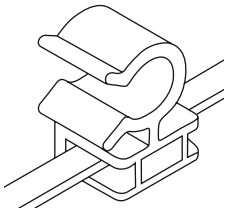
Polyamide 4.6 (PA46)

Cable Ties With Fixing Elements

2-Piece Fixing Ties with Pipe Clip

Features and Benefits

- For post-installation of additional cables for preassembled cable looms
- Variety of twist angles and even different loop directions provide flexibility for cable routing
- Additional cable tie dimensions are available



T30ROC2A



Pipe Clip T30ROC2A for post-installation of additional cables for preassembled cable looms.

TYPE	Width (W)	Length (L)	Bundle Ø max.	Attach to Ø	Material	Colour	Article-No.
T30ROC2A	3.6	148.0	31.0	6.5 - 7.5	PA46	Grey (GY)	156-00014

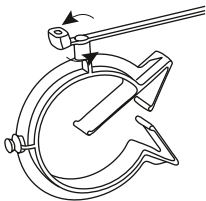
All dimensions in mm. Subject to technical changes.

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

2-Piece Fixing Ties with Pipe Clip

Features and Benefits


- Simply clip on a wire or hose
- Fixing clip offers full 360° rotation
- Routed cable can move in any direction in relation to the fixing point
- Inside serrated cable tie
- Ideally used in the automotive industry



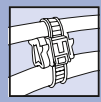
T50SVCOC/T50SMVCOC



T50SMVCOC19-24.5 rotates in any direction.

TYPE	Width (W)	Length (L)	Bundle Ø max.		Attach to Ø	Colour	Material	Article-No.
T50SMVCOC19-24.5	4.7	210.0	50.0	222	19.0 - 24.5	Grey (GY)	PA46	156-00577

All dimensions in mm. Subject to technical changes.

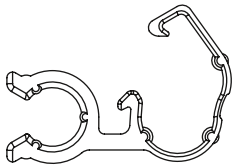


Cable Set Clip

Cable Clip for Cable diameter 5 and 6 mm

Features and Benefits

- Easy to install without the need for a tool
- 6 mm entry opens and closes by clicking into the required position
- Suitable for post-installation of bundles



Brake cable fixing



Bracket KBLS for parallel cable routing.

TYPE	Width (W)	Length (L)	Attach to Ø	Bundle Ø max.	Material	Colour	Article-No.
Bracket KBLS	12.0	18.9	5.1	6.0	PA46	Grey (GY)	151-14202

All dimensions in mm. Subject to technical changes.

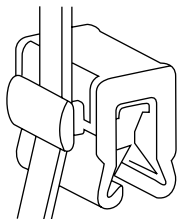
More variants and dimensions are available on request. Please contact us for more information.

2-Piece Fixing Ties for Edges, 1.0 - 3.0 mm, Side Fixing

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

Features and Benefits


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



EC21



Pre-assembled 2-piece fixing tie with Edge Clip for edges of 1-3 mm.

TYPE	Width (W)	Length (L)	Bundle Ø max.	Panel Thickness		Material	Colour	Article-No.
T50ROSEC21	4.6	200.0	45.0	1.0 - 3.0	225	PA46	Grey (GY)	156-00659

All dimensions in mm. Subject to technical changes.

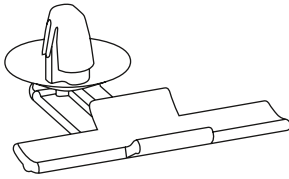


Bundling Clips with Arrowhead for Distance Routing

Originally designed for the automotive industry these clips offer simple and easy methods of securing cables or pipes, they have many applications within a wide range of industries.

Features and Benefits

- Easy to install without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressure from various directions and minimises access of dust, dirt and water
- Versions for oval holes feature anti-twist protection



Stand Off Clip SOC



StandOff Clips allow cable looms to be routed at a set distance from the punched holes.

TYPE	Length (L)	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
STAND OFF CLIP	40.0	6.5 - 6.8	0.4 - 1.6	PA46	Grey (GY)	150-45398

All dimensions in mm. Subject to technical changes.

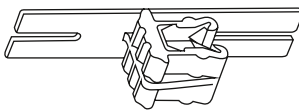
More variants and dimensions are available on request. Please contact us for more information.

Bundling Clips for Edges, 1,0 - 3,0 mm

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

Features and Benefits

- Edge Clips are incredibly easy to fit
- Simply push onto a plastic or metal edge
- Edge Clips 14 to 17 have integrated bar to fasten cable bundle using cable tie or adhesive tape
- Slotted and flexible bars are ideal for bundle



EC17



EC17 - Cables and leads can be fastened with adhesive tape to the bar of the mounting element.

TYPE	Width (W)	Length (L)	Height (H)	Panel Thickness	Material	Colour	Article-No.
EC17	10.0	46.5	13.0	1.0 - 3.0	PA46	Grey (GY)	151-00819

All dimensions in mm. Subject to technical changes.



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

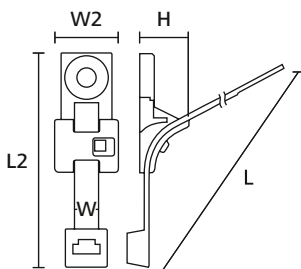
Used in the Automotive and Truck Industry for harness fixing in the engine body, these parts offer solutions in many other industrial applications within difficult environments.

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 are suitable for assembling on screws.



HDM6/HDM8 with cable tie (L = length of tie "flat")

TYPE	Width (W)	Width (W2)	Length (L)	Length (L2)	Height (H)	Bundle Ø max.	Mounting Screw Type	Material	Colour	Article-No.
T120RHDM6	7.6	20.0	390.0	37.5	16.0	105.0	M6	PA46	Grey (GY)	156-00407
T120RHDM8	7.6	20.0	390.0	37.5	16.0	105.0	M8	PA46	Grey (GY)	156-00409
T120RHDM6P	7.6	20.0	390.0	37.5	16.0	105.0	M6	PA46	Grey (GY)	156-00821
T120RHDM8P	7.6	20.0	390.0	37.5	16.0	105.0	M8	PA46	Grey (GY)	156-00823

All dimensions in mm. Subject to technical changes.

Blind Plugs

Products were developed especially for the automotive industry. Application in trunks, doors, wheel housing and dash panels. Parts are even used for optical reasons.

Features and Benefits

- Easy assembly without the need of a tool
- Disc of the part covers the hole and minimises ingress of dust, dirt and water
- Standard geometry for example fir tree or arrowhead



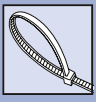
Plug FT6XL for borehole covering



Blindplugs are available in different dimensions and materials.

TYPE	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
PLUGFT6XL	6.5 - 7.0	0.7 - 18.0	PA46	Brown (BN)	151-00428

All dimensions in mm. Subject to technical changes.



Cable Ties for higher chemical resistance and for temperatures up to +170 °C in Ethylene Tetrafluoroethylene

E/TFE products are ideal for use in aggressive chemical environments at temperatures up to +170 °C. This highly resistant thermoplastic meets UL94-VO fire protection requirements and generates very little smoke density.

Features and Benefits

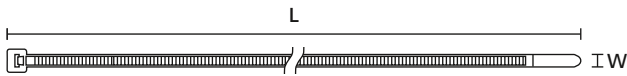
- Blue higher chemical resistance cable tie available in a wide range sizes
- Made from 100% high quality plastic, allows for good recycling
- Inside serration for a strong hold onto bundles
- Easy application either manually or with a processing tool
- Simple to insert due to bent tail
- High temperature resistance
- No moisture absorption



T-Series.

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

T-Series in E/TFE (Tefzel®)



T-Series.

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Pack Cont.	Article-No.
T18R	2.5	100.0	22.0	80	E/TFE	Blue (BU)	100 pcs.	111-00659
T30R	3.5	150.0	36.0	133	E/TFE	Blue (BU)	100 pcs.	111-00698
T50R	4.7	201.0	50.0	222	E/TFE	Blue (BU)	100 pcs.	111-00732
T50L	4.7	382.0	105.0	222	E/TFE	Blue (BU)	100 pcs.	111-00718
T120R	7.4	387.0	105.0	535	E/TFE	Blue (BU)	50 pcs.	111-01125

All dimensions in mm. Subject to technical changes.

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



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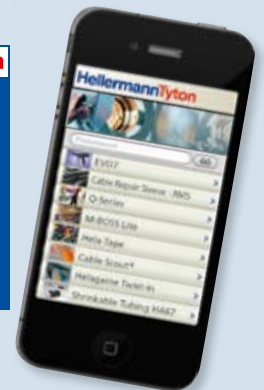
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