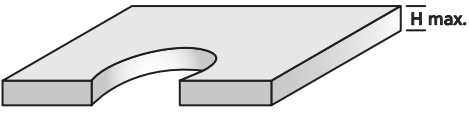
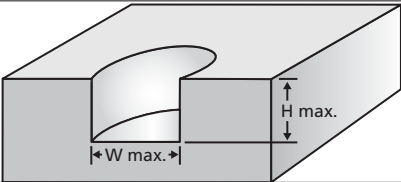
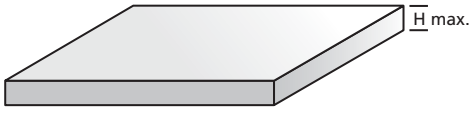
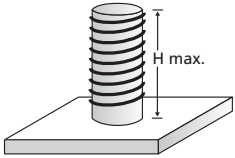


Application	Arrowhead	Fir Tree Mount	Rivet Wall Plug	Screw Mount	EdgeClip	Weld Stud Mount
	●	●		●		
		●	●	●		
					●	
						●



Arrowhead

This fixing tie is based on an arrowhead offering high extraction forces. The arrowhead is securely in place when a click can be heard and felt by the user.



Arrowhead with disc

The disc minimises the ingress of dust, dirt and water. Furthermore a safe fixation inside the drill hole is assured that withstands pressure from various directions.



Arrowhead with supporting legs

Arrowhead fixings with supporting legs offer good and stable fixation in drilled holes. The supporting legs generate additional pressure to assure a firm and secure fixing while taking up any variation in panel thickness. These ties are also suitable in high vibration applications.



Arrowhead without supporting legs

The arrowhead design assures good fixation while utilising lowest possible space.



Fir Tree Mount

Fir Tree Mounts can be pushed into pre-punched holes easily in panels or threaded, blind holes based on the low insertion forces. The design is ideally suited for a wide range of sheet thicknesses. The disc on top of the fir tree covers the hole and minimises the ingress of dust, dirt and water.



Weld Stud Mount

Various of the HellermannTyton weld stud mounts can easily be attached by hand ("soft push") the design offers very low insertion forces that require no tools.

The mounts can be removed by twisting to the left.

SB9 and SB14 are based on "hard push" technology and require a hammer to be applied.



Weld Stud Fixings with lateral adjustment

The special oval shape of these mounts provides a 5-6 mm lateral adjustment to cater for any misalignment of the stud or incorrect positioning of ties on the cables. The bundle can therefore be moved when mounted.



EdgeClip

The EdgeClips are specifically designed to bundle and guide cable and wires on edges. Cost intensive drill holes for fixing are no longer required. EdgeClips are easily mounted by hand, the integrated metal clamp, securely keeping the clips on the edge.



EdgeClip twistable

Ideally suited for fixations where bundles need to be flexibly guided. These EdgeClips are available with facilities for 90° or 360° rotation.



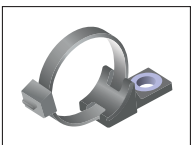
EdgeClip without metal clamp

These EdgeClips are easily attached. The holding tap snaps into the drill hole securely.



Cable & Hose Attachment

Excellent solution for subsequent attachment of pipes and wires to installed tubes.



Heavy Duty Application

These sturdy fixing ties can withstand vibrations. They are easy to apply and give a secure alignment to the bundle. There will be High tightening torque through metal bushing.



Two Piece Fixing Ties with Clip Coupler

The Coupler is an article to connect two cable ties maximum for parallel bundling of tubes, harnesses or cables. Its design enables the cable ties to rotate up to 90° and allows flexible installations.

1-Piece Fixing Ties with Arrowhead, with Disc

With a diverse range of fixing possibilities (from 4.4mm to 8.0mm hole diameters and 0.5mm to 8.0mm panel thickness) this range of fixing ties is ideal for use in many different industries, including automotive, aerospace and panel building.

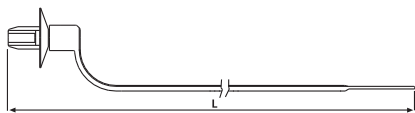
Features and Benefits

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

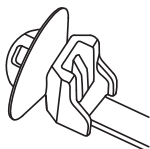


The flexible 'disc' adjusts to take up variations in panel thickness - ensuring a firm fixing at all times.

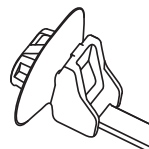
 **Material specification please see page 21.**



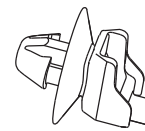
Special design without a gap between head and bundle; T50MD7.



T50SOSKSFT65E



T50SOSKSFT62x122PT07-13



T50SOSSFT6.5E

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
1-Piece Fixing Ties with Arrowhead, with Disc for round holes											
126-00075	T50SOSKSFT5.4E	156.0	4.6	35.0	225	16.0	5.2 - 5.6	0.7	1.3	PA66HS	Black (BK)
126-02300	T50SST5	170.0	4.6	31.0	225	16.2	6.1 - 6.5	0.7	1.5	PA66	Natural (NA)
150-15395	T50SST5	170.0	4.6	31.0	225	16.2	6.1 - 6.5	0.7	1.5	PA66HS	Black (BK)
126-00017	T50SST5	170.0	4.6	31.0	225	16.2	6.1 - 6.5	0.7	1.5	PA66HS	Black (BK)
111-85850	T50MD7	225.0	5.0	59.0	225	16.0	6.8 - 7.2	1.2	2.0	PA66HS	Black (BK)
126-03102	T50SOSSFT6.5E	160.0	4.6	35.0	225	16.0	6.3 - 6.7	1.9	2.5	PA66HS	Black (BK)
126-00081	T50SOSKSFT65E	156.0	4.6	35.0	180	16.0	6.3 - 6.7	0.7	1.3	PA66HS	Black (BK)
126-00086	T50SOSSFT6.5S2-E	157.0	4.6	35.0	225	16.0	6.3 - 6.7	1.7	2.3	PA66HS	Black (BK)
111-85350	T50SD6	160.0	5.0	31.0	180	18.0	6.3 - 7.5	0.6	1.8	PA66HS	Black (BK)

1-Piece Fixing Ties with Arrowhead, with Disc, releasable

111-85480	RT50SD6	160.0	5.0	31.0	180	18.0	6.3 - 7.5	0.6	1.8	PA66HS	Black (BK)
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1-Piece Fixing Ties with Arrowhead, with Disc for oval holes

126-00015	T50SDOP	160.0	5.0	30.0	225	22.0	6.2 x 12.2	0.7	2.0	PA66HS	Black (BK)
126-00119	T50SOSAH7x12U	166.5	5.1	50.0	225	15.2 x 20.2	7.0 x 12.0	0.6	3.6	PA66HS	Black (BK)
126-00120	T50ROSAH7x12U	216.5	5.1	50.0	225	15.2 x 20.2	7.0 x 12.0	0.6	3.6	PA66HS	Black (BK)
126-00141	T50SOSKSFT62x122PT0.7-1.3	153.5	4.6	35.0	225	16.0 x 21.0	6.2 - 12.2	0.7	1.3	PA66HS	Black (BK)
126-00143	T50SOSKSFT62x122PT0.7-1.3 90°	158.0	4.6	35.0	225	16.0 x 21.0	6.2 - 12.2	0.7	1.3	PA66HS	Black (BK)
126-00142	T50SOSKSFT62x122PT1.7-2.3	159.0	4.6	35.0	225	16.0 x 21.0	6.2 x 12.2	1.7	2.3	PA66HS	Black (BK)
126-00144	T50SOSKSFT62x122PT1.7-2.3 90°	159.0	4.6	35.0	225	16.0 x 21.0	6.2 x 12.2	1.5	2.3	PA66HS	Black (BK)

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Arrowhead, with Disc, sealed

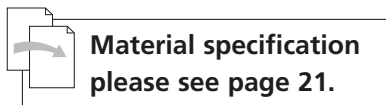
The parts are mainly used in the automotive industry, e.g. for door harnesses.

Features and Benefits

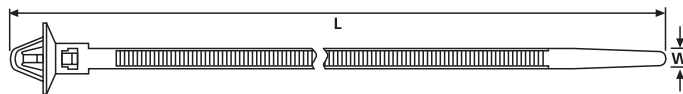
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts the tie for pressures from various directions
- Cable tie head always situated in defined position
- Cellular rubber seal minimises access of dust, dirt and water
- T50SOSSFT6,5E-MD with lasered seal and T60SOSSFT6,5E-MD made from PA6.6 HS are tested acc. IEC60529 and fulfill IP67



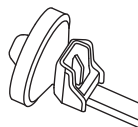
The additional seal protects against the ingress of moisture.



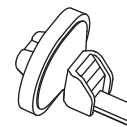
Material specification
please see page 21.



One piece fixing tie with arrowhead and disc, standard design.



T50SOSSFT6.5E-MDL



T60SOSSFT65x130E-MD

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
Fixing Ties, sealed, round holes											
126-03100	T50SOSSFT6.5E-MDL	160.0	4.6	35.0	225	16.0	6.3 - 6.7	0.6	1.8	PA66HS	Green (GN)
156-00264	T50SOSSFT6.5E-MDL	160.0	4.6	35.0	225	16.0	6.3 - 6.7	0.6	1.8	PA66HS	Black (BK)
156-00271	T50SOSSFT6.5-E-MDL	160.0	4.6	35.0	225	16.0	6.3 - 6.7	0.6	1.8	PA66HS	Natural (NA)
156-00379	T50XROSSFT6.5EMDL	200.0	4.6	45.0	200	16.0	6.25 - 6.75	1.2	2.1	PA66HS	Black (BK)
126-00065	T50SOSSFT65MSMD	163.0	4.6	35.0	180	16.0	6.25 - 6.75	0.7	1.6	PA66HS	Natural (NA)
Fixing Ties, sealed, oval holes											
126-00079	T60SOSSFT70x120-E-MD	157.5	5.5	30.0	300	16.0 x 22.0	7.0 x 12.0	0.7	2.0	PA66HS	Black (BK)

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Arrow-head, with Disc in the strap

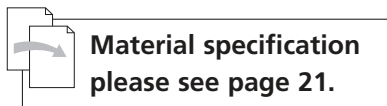
These fixing ties are ideal for use in many different industries, including automotive, aerospace and panel building.

Features and Benefits

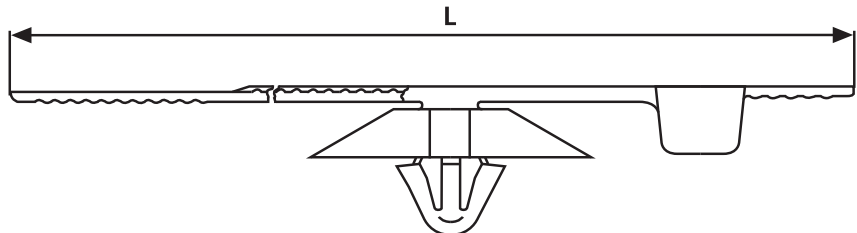
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressures from various directions and minimises access of dust, dirt and water
- Cable tie head always situated in defined position
- Bundle runs directly across fixing point
- Simple assembly due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



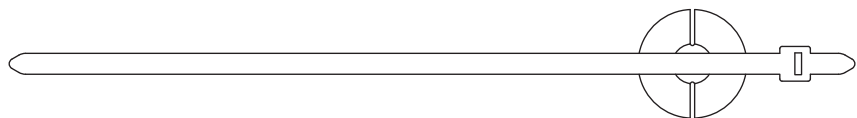
The 'tab' on the head of the tie makes it easy to locate and lift the head for assembly.



Material specification
please see page 21.



T80RSFT



T80RSFT with flexible disc

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour	Application Tool
150-15493	T80RSFT	190	4.6	45.0	355	24.4	5.7 - 6.3	1.0	3.5	PA66	Black (BK)	1-3, 5
150-15498	T80RSFT	190	4.6	45.0	355	24.4	5.7 - 6.3	1.0	3.5	PA46	Grey (GY)	1-3, 5

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Arrowhead, with Wings

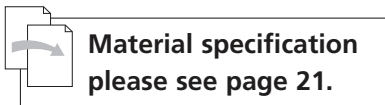
For the bundling and fixing of cable harnesses, pipes and hoses in the automotive, aerospace, white goods industries and panel building.

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
- Variations for round and oval holes are available
- "Ladder style" types are very flexible

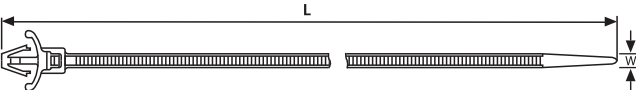
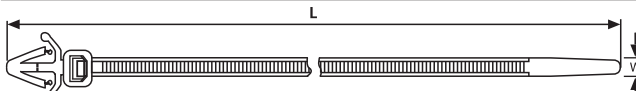
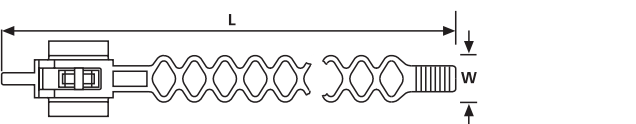
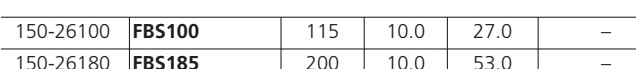


A wide range of arrowhead fixing ties which are suitable for different panel thicknesses and hole diameters.



Material specification
please see page 21.

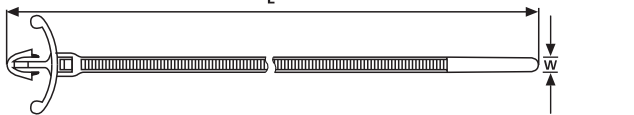
1-Piece Fixing Ties with Arrowhead, with Wings, releasable

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
	RT50RSF	215	4.6	50.0	225	7.8 - 8.2	0.80	2.50	PA66	Black (BK)
	RT50SFK	225	5.0	50.0	225	6.4 - 7.0	0.8	3.0	PA66	Black (BK)
	FBS100	115	10.0	27.0	-	6.3 - 6.7	0.7	3.9	PA66	Black (BK)
	FBS185	200	10.0	53.0	-	6.3 - 6.7	0.7	3.9	PA66	Black (BK)

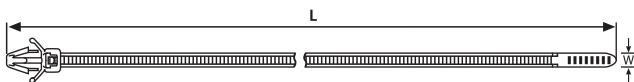
All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Arrowhead, with Wings

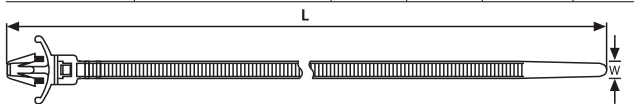
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
111-85519	T18RSF	100	2.5	16.0	80	4.6 - 4.8	1.0	3.0	PA66	Natural (NA)
111-85560	T18RSF	100	2.5	16.0	80	4.6 - 4.8	1.0	3.0	PA66W	Black (BK)



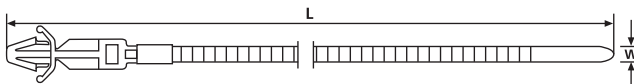
111-85739	T50SSF	160	4.6	35.0	225	6.0 - 6.6	0.7	3.0	PA66	Natural (NA)
126-01104	T50SSF	160	4.6	25.0	225	6.0 - 6.6	0.7	3.0	PA66HS	Natural (NA)
126-00032	T50SSF	160	4.6	35.0	225	6.0 - 6.6	0.7	3.0	PA66HS	Black (BK)
111-85729	T50RSF	200	4.6	45.0	225	6.0 - 6.6	1.0	3.0	PA66	Natural (NA)



111-85339	T50SSL5	135	4.6	27.0	225	6.1 - 6.5	0.8	2.7	PA66	Natural (NA)
126-02204	T50SSL5	135	4.6	27.0	225	6.1 - 6.5	0.8	2.7	PA66HS	Black (BK)
111-85395	T50SSL5	135	4.6	27.0	225	6.1 - 6.5	0.8	2.7	PA46	Grey (GY)
126-00005	T50SL5	165	4.6	34.0	225	6.1 - 6.3	0.8	2.7	PA66HIRHS	Black (BK)
111-85369	T50SL5	165	4.6	34.0	225	6.1 - 6.3	0.8	2.7	PA66	Natural (NA)
126-00001	T50SL5	165	4.6	34.0	225	6.1 - 6.3	0.8	2.7	PA66HS	Black (BK)
111-85460	T50SL6	165	4.6	34.0	225	6.3 - 7.5	0.5	2.5	PA66	Black (BK)
111-85479	T50SL7	165	4.6	34.0	225	6.9 - 7.1	0.8	2.5	PA66	Natural (NA)



155-41102	T50SAH	160	4.6	25.0	225	6.3	0.7	3.0	PA66HS	Natural (NA)
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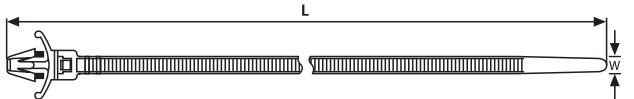
All dimensions in mm. Subject to technical changes.



Material specification
please see page 21.

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

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
150-48396	T80RFT6X12	228	4.6	45.0	225	6.3 x 12.3	0.6	3.0	PA66	Black (BK)
150-48397	T80RFT6X12	228	4.6	45.0	225	6.3 x 12.3	0.6	3.0	PA46	Grey (GY)



All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Arrow-head, with Wings in the strap

- **T80RSF6.5F**
- **T80RSF6.5FW with rib for convoluted tubes**

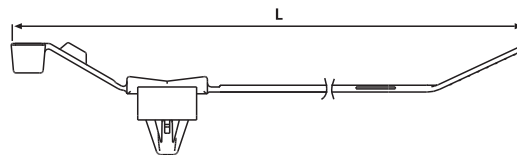
This range of fixing ties is ideal for use in many different industries, including automotive, aerospace and panel building. The T80RSF6.5FW feature a detent that fits securely into the profile of the tubing which assists from preventing lateral movement and slipping of the tubing.



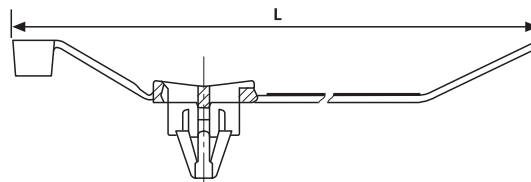
Designed to secure battery cables the T80RSF6.5F offers a simple and secure fixing.

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



T80RSF6.5FW



T80RSF6.5F



**Material specification
please see page 21.**

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
126-02600	T80RSF6.5F	209	4.6	45.0	300	6.3 - 6.5	0.6	3.0	PA66HS	Black (BK)
150-39395	T80RSF6.5F	209	4.6	45.0	300	6.3 - 6.5	0.6	3.0	PA46	Grey (GY)
150-39385	T80RSF6.5FW	209	4.6	45.0	300	6.3 - 6.5	0.6	3.0	PA66HS	Black (BK)

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Arrowhead

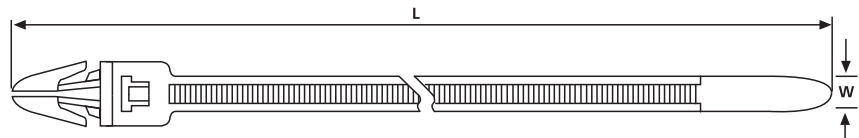
The arrowhead designs allows these fixing ties to be used in areas with limited space.

Features and Benefits

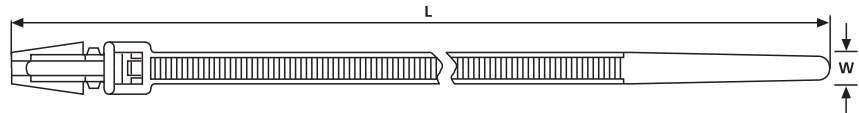
- Easy to assemble without the need for a tool
- Fixing tie with arrowhead without legs
- Arrowhead simply locks into place
- Cable tie head always situated in defined position



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



T30RSF(U)



T50RSF(E)

Material specification please see page 21.

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
111-85603	T30RSF(U)	161	3.6	31.0	135	4.8 - 5.6	0.9	2.4	PA66	Natural (NA)
111-85610	T30RSF(U)	161	3.6	31.0	135	4.8 - 5.6	0.9	2.4	PA66HS	Black (BK)
111-85799	T50RSF(E)	210	4.6	50.0	225	6.2 - 6.4	2.9	3.0	PA66	Natural (NA)
126-01001	T50RSF(E)	210	4.6	50.0	225	6.2 - 6.4	2.9	3.0	PA66	Black (BK)

All dimensions in mm. Subject to technical changes.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.

2-Piece Fixing Ties with Arrowhead, with Disc

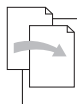
Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example: aviation, switch-gear manufacturers, white goods manufacturers.

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



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

 **Material specification please see page 21.**



2-Pieces Fixing Ties with Arrowhead, with Disc, sealed

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material Cable Tie	Material Foot Part
150-37799	T50ROSSFT6.5 16-3MD	200	4.6	45.0	225	16.0	6.3 - 6.7	2.5	3.5	PA66HS	PA66HIRHS
150-93100	T50ROSSFT6.5ZD 16-2	200	4.6	45.0	225	16.0	6.3 - 6.7	0.7	2.0	PA66HS	PA66HIRHS
155-42002	T50ROSSFT6.5-16-2-BK	200	4.6	45.0	225	16.0	6.3 - 6.7	0.7	1.2	PA66HS	PA66HIRHS

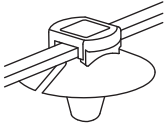
All dimensions in mm. Subject to technical changes.



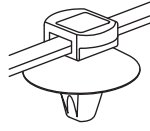
2-Pieces Fixing Ties with Arrowhead, for Oval Holes

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material Cable Tie	Material Foot Part
156-00446	T50RFT62x122HR	200	4.6	45.0	225	6.3 x 12.2	0.6	3.0	PA46	PA46
150-37591	T50RFT6OVAL	200	4.6	45.0	225	6.3 x 12.2	0.6	3.0	PA66HS	PA66HIR

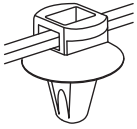
All dimensions in mm. Subject to technical changes.



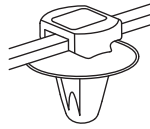
T50SSFT6.5



T50RSFT6.5D18



SFT6.5 16-3



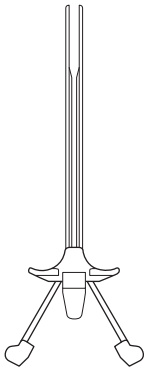
SFT6.5 16-2

Other dimensions are available on request.

2-Piece Fixing Ties with Arrowhead, with Disc

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material Cable Tie	Material Foot Part
150-13593	T50SSFT6.5	150	4.6	31.0	225	22.4	6.3 - 6.7	0.7	2.0	PA66HS	PA66HS
150-13591	T50RSFT6.5	200	4.6	45.0	225	22.4	6.3 - 6.7	0.7	2.0	PA66HS	PA66HS
117-05160	T50RDHSFT6.5	210	4.7	45.0	225	22.4	6.3 - 6.7	0.7	2.0	PA66HS	PA66HS
150-13596	T80ISFT6.5	300	4.6	81.0	355	22.4	6.3 - 6.7	0.7	2.0	PA66HS	PA66HS
150-37691	T50RSFT6.5D18	200	4.6	45.0	225	18.0	6.5 - 6.8	0.4	1.6	PA66HS	PA66HIRHS
150-37791	T50ROS-SFT6.5 16-3	200	4.6	45.0	225	16.0	6.3 - 6.7	2.5	3.5	PA66HS	PA66HIRHS
150-37792	T50RSFT6.5 16-3	200	4.6	45.0	225	16.0	6.3 - 6.7	2.5	3.5	PA66HS	PA66HIRHS
150-93130	T50SOSSFT65162OD	150	4.6	35.0	225	16.0	6.3 - 6.7	1.5	2.2	PA66HS	PA66HIRHS

All dimensions in mm. Subject to technical changes.



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

Material specification please see page 21.

2-Pieces Fixing Ties with Arrowhead, for parallel routing

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material Cable Tie	Material Foot Part
156-00133	T50SOSDSFT6.5	150	4.6	35.0	225	6.3 - 6.7	0.7	1.5	PA66HS	PA66HIRHS

All dimensions in mm. Subject to technical changes.

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

- **T50ROSP1SFT6.5** for panel thickness 0.7 - 1.3 mm
- **T50ROSP2SFT6.5** for panel thickness 1.7 - 2.3 mm

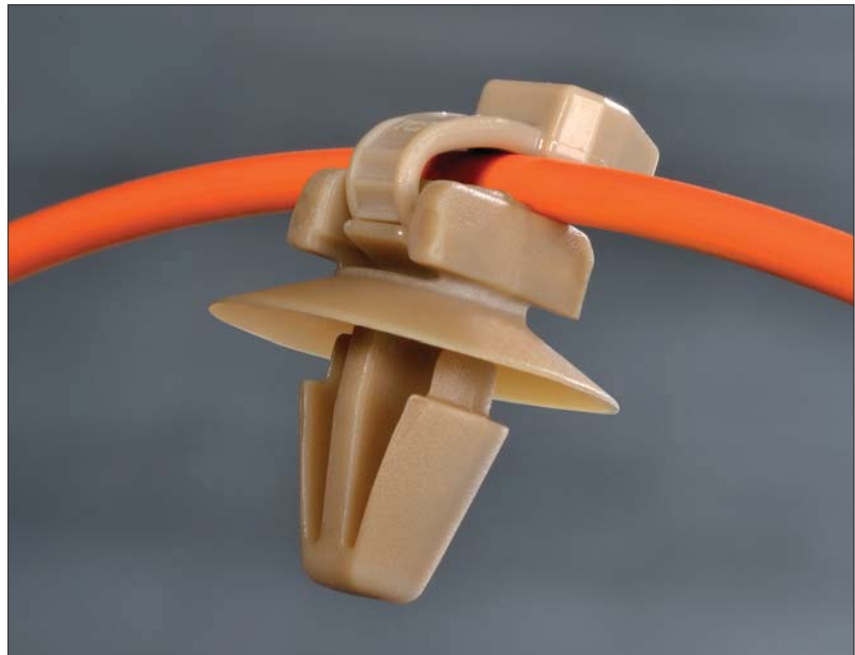
The Fixing-Ties with P1SFT6,5 and P2SFT6,5 are ideal when the requirements for temperature or chemical resistance are very high. They are used for cable harnesses in the automotive industry.

Features and Benefits

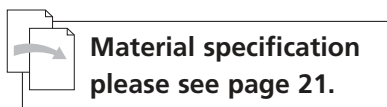
- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressure from various directions and minimises access of dust, dirt and water

Features material PEEK:

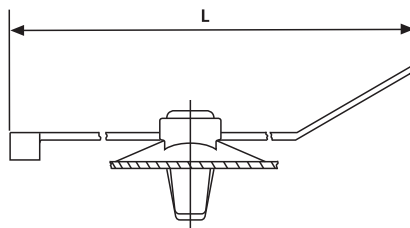
- -55 °C to 240 °C operating temperature
- Excellent resistance against chemicals and gamma radiation



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



Material specification please see page 21.



Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.
156-00455	T50ROSP1SFT65	200	4.6	45.0	225	6.3 - 6.7	0.7	1.3
156-00456	T50ROSP2SFT65	200	4.6	45.0	225	6.3 - 6.7	1.7	2.3

All dimensions in mm. Subject to technical changes.

Material Cable Tie	Material Foot Part	Colour Cable Tie	Colour Foot Part
PA46	PEEK	Grey (GY)	Beige (BGE)
PA46	PEEK	Grey (GY)	Beige (BGE)

All dimensions in mm. Subject to technical changes.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.

1-Piece Fixing Ties with Fir Tree, with Disc

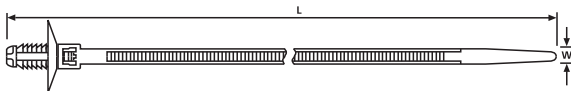
Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

Features and Benefits

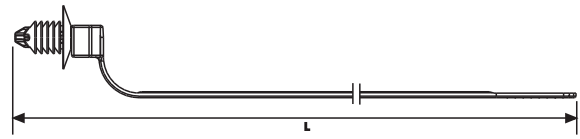
- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust, dirt and water
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded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



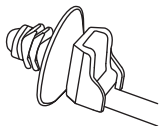
T50SOSFT6LGE



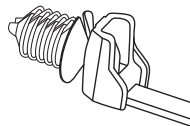
One piece fixing tie with fir tree mount, standard design.



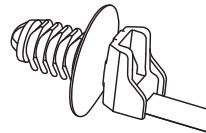
Special design without a gap between head and bundle; FT220DP7.



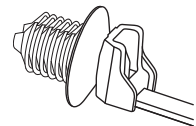
T50SOSFT6E2



T50SOSFT6D10E



T50SOSFT6LGE



T50SOSFT8E

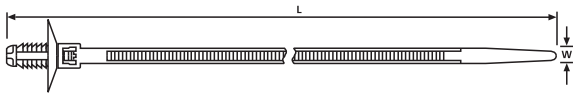


**Material specification
please see page 21.**

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
150-55610	T18RDP5	110.0	2.5	20.0	80	13.0	4.9 - 5.1	3.0	4.0	PA66	Black (BK)
157-00033	T50SOSFT6E1	160.0	4.7	35.0	150	16.0	6.3 - 7.0	0.7	3.0	PA66HS	Black (BK)
157-00085	T50SOSFT6-E2	160.0	4.6	35.0	180	16.0	6.3 - 7.0	0.6	4.2	PA66HS	Black (BK)
157-00045	T50SOSFT6D10E	163.0	4.6	32.0	225	10.0	5.8 - 6.2	0.8	5.5	PA66	Black (BK)
157-00028	T50SOSFT6D10E	163.0	4.6	32.0	225	10.0	5.8 - 6.2	0.8	5.5	PA46	Grey (GY)
157-00042	T50SOSFT6LGE	165.0	4.6	35.0	180	16.0	6.3 - 7.0	0.7	7.0	PA66HS	Black (BK)
150-01700	FT220DP7	230.0	4.7	40.0	225	16.0	6.8 - 7.2	0.8	5.0	PA66	Black (BK)
157-00072	T50SOSFT8E	163.0	4.6	35.0	225	16.0	8.0 - 8.5	0.6	6.0	PA66HS	Black (BK)
157-00115	T50SOSFT8E	163.0	4.6	35.0	225	16.0	8.0 - 8.5	0.6	6.0	PA46	Grey (GY)

All dimensions in mm. Subject to technical changes.

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



One piece fixing tie with fir tree mount, standard design.

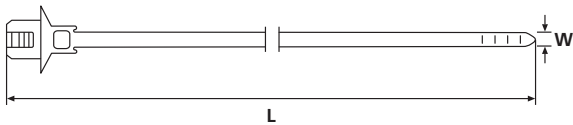
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
150-55500	REL30SDP6	170.0	5.0	31.0	135	22.0	6.3 - 7.0	3.0	7.0	PA66	Black (BK)

All dimensions in mm. Subject to technical changes.



Material specification please see page 21.

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



T50SOS2DOP

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Hole Ø	Panel Thickness min.	Panel Thickness max.	Material	Colour
157-00014	T50SOS2DOP	165.0	4.6	35.0	225	16.0x21.0	6.2 x 12.2	0.6	6.0	PA66HIRHS	Black (BK)
157-00069	T50SOS2DOP	165.0	4.6	35.0	225	16.0x21.0	6.2 x 12.2	0.6	6.0	PA46	Grey (GY)
157-00016	T50SOS3DOP65130E	165.0	4.6	35.0	180	16.0x21.0	6.5 x 13.0	0.7	5.0	PA66HIRHS	Black (BK)
157-00053	T50SOSFT7X12U	165.0	5.1	35.0	225	15.2x20.2	7.0 x 12.0	0.6	4.0	PA66HS	Black (BK)
157-00054	T50ROSFT7X12U	216.0	5.1	50.0	225	15.2x20.2	7.0 x 12.0	0.6	4.0	PA66HS	Black (BK)

All dimensions in mm. Subject to technical changes.

2-Pieces Fixing Ties with Fir Tree, with Disc

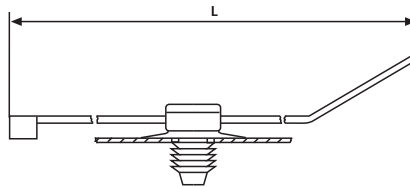
Primarily designed for fixing cable harnesses in the automotive industry their simplicity and ease of use, has resulted in these parts being used in many industries, for example: aviation, switch gear and white goods.

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
- DOP versions for oval holes feature anti-twist protection



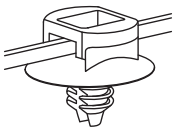
These Fir-Tree fixings can also be used in threaded, blind holes.



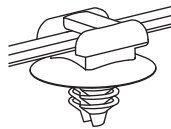
One piece fixing tie with fir tree mount

Other combinations between cable tie and foot part available on request.

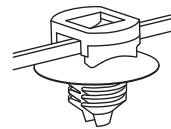
Material specification please see page 21.



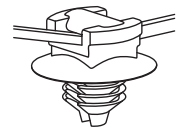
T30RFT5



T50SOSFT5SD



T18RFT6

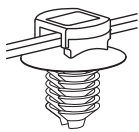


T30RFT6SD

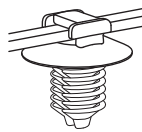
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Hole Ø	Panel Thickness min.	Panel Thickness max.	Colour	Material Cable Tie	Material Foot Part
150-55850	T30RFT5	150	3.6	34.0	135	16.0	4.5 - 5.0	0.7	3.0	Black (BK)	PA66HS	PA66HIRHS
150-55948	T30RFT5	150	3.6	34.0	135	16.0	4.5 - 5.0	0.7	3.0	Natural (NA), Grey (GY)	PA46	PA46
156-00025	T50RFT5	200	4.6	45.0	225	16.0	4.5 - 5.0	0.7	3.0	Black (BK)	PA66HS	PA66HIRHS
156-06200	T50SOSFT5	150	4.6	31.0	225	16.0	4.5 - 5.0	0.7	3.0	Black (BK)	PA66HS	PA66HIRHS
156-00432	T50SOSFT5SD	150	4.6	35.0	225	16.0	4.5 - 5.0	0.7	3.0	Black (BK)	PA66HS	PA66HIRHS
150-09110	T18RFT6	100	2.5	20.0	80	16.0	6.4 - 7.1	0.75	3.0	Black (BK)	PA66	PA66
150-77950	T30RFT6	150	3.6	34.0	135	16.0	6.4 - 7.1	0.75	3.0	Black (BK)	PA66HS	PA66HIRHS
150-77941	T50RFT6	200	4.6	45.0	225	16.0	6.4 - 7.1	0.75	3.0	Black (BK)	PA66HS	PA66
150-77938	T50RFT6	200	4.6	45.0	225	16.0	6.4 - 7.1	0.75	3.0	Grey (GY)	PA46	PA46
150-77934	T80LFT6	390	4.6	108.0	355	16.0	6.4 - 7.1	0.75	3.0	Black (BK)	PA66HS	PA66HIRHS
156-00076	T50ROSFT6	200	4.6	45.0	225	16.0	6.4 - 7.1	0.75	3.0	Black (BK)	PA66HS	PA66HIRHS
150-77936	T50RDHFT6	210	4.7	19.0	225	16.0	6.4 - 7.1	0.75	3.0	Black (BK)	PA66HS	PA66HIRHS
150-52690	T30RFT6SD	148.0	3.6	35.0	135	16.0	6.4 - 7.1	0.75	3.0	Black (BK)	PA66HS	PA66HIRHS
156-05902	T50ROSFT6SD	200	4.6	45.0	225	16.0	6.4 - 7.1	0.75	3.0	Black (BK)	PA66HS	PA66HIR
156-00085	T50ROSFT6SD	200	4.6	45.0	225	16.0	6.4 - 7.1	0.75	3.0	Grey (GY)	PA46	PA46

All dimensions in mm. Subject to technical changes.

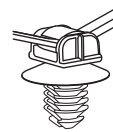
2-Pieces Fixing Ties with Fir Tree, with Disc



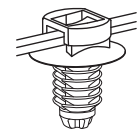
T30RFT6LG



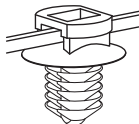
T50SFT6LG1SD



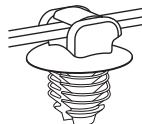
T50RFT6LGSDEX



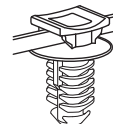
T50IFT7



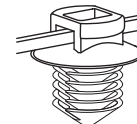
T50RFT8



T50RFT8GSD



T120IFT9

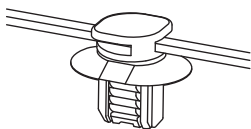


T50RFT10

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Disc Ø	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.	Colour	Material Cable Tie	Material Foot Part
150-31090	T30RFT6LG	150	3.6	35.0	16.0	135	6.4 - 7.1	0.75	6.0	Black (BK)	PA66HS	PA66HIRHS
150-31091	T50RFT6LG	200	4.6	44.0	16.0	225	6.4 - 7.1	0.75	6.0	Black (BK)	PA66HS	PA66HIRHS
150-31096	T80IFT6LG	300	4.6	81.0	16.0	355	6.4 - 7.1	0.75	6.0	Black (BK)	PA66HS	PA66HIRHS
156-00154	T50SFT6LG1SD	160	4.6	30.0	16.0	225	6.5 - 7.0	0.6	6.0	Black (BK)	PA66HS	PA66HIRHS
156-00399	T50RFT6LGS-D-HEX	200	4.6	45.0	16.0	225	6.25 - 6.75	0.7	5.0	Black (BK)	PA66HS	PA66HIRHS
111-85871	T50RFT7	200	4.6	44.0	16.0	225	6.5 - 7.0	0.8	7.0	Black (BK)	PA66HS	PA66HS
150-00700	T50IFT7	300	4.6	81.0	16.0	225	6.5 - 7.0	0.8	7.0	Black (BK)	PA66HS	PA66HS
111-85880	T50RFT8	200	4.6	45.0	16.0	225	7.7 - 8.0	0.8	6.0	Black (BK)	PA66HS	PA66HS
156-00104	T40RFT8GSD	180	4.0	40.0	16.0	180	8.0 - 8.5	1.5	4.0	Black (BK)	PA66HS	PA66HIRHS
133-00034	T50RFT8GSD	200	4.6	45.0	16.0	225	8.0 - 8.5	1.5	4.0	Black (BK)	PA66HS	PA66HIRHS
156-00235	T50RFT8GSD	200	4.6	45.0	16.0	225	8.0 - 8.5	1.5	4.0	Grey (GY)	PA46	PA46
156-00200	T120IFT9	300	7.6	75.0	20.0	535	9.0 - 10.6	5.0	11.0	Black (BK)	PA66HIR(S)	PA66HIR(S)
111-85810	T50RFT10	200	4.6	45.0	18.0	225	9.7 - 10.0	0.8	5.0	Black (BK)	PA66HS	PA66HS
156-00120	T50ROSFT10	200	4.6	45.0	18.0	225	9.7 - 10.0	0.8	5.0	Black (BK)	PA66HS	PA66HIRHS

All dimensions in mm. Subject to technical changes.

2-Pieces Fixing Ties with Fir Tree, with Disc, for Oval Holes



T50ROS1DOP



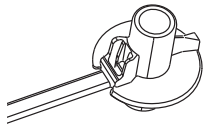
Material specification
please see page 21.

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Disc Ø	Min. Tensile strength for ties (N)	Hole Ø	Panel Thickness min.	Panel Thickness max.	Colour	Material Cable Tie	Material Foot Part
156-05908	T50ROSFT62x122	200	4.6	45.0	12.0 x 21.0	225	6.2 x 12.2	0.6	6.0	Black (BK)	PA66HS	PA66HIRHS

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties for Weld Studs

- **T50SOSSBH5E with plate to fix isolation material**
- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Can retain insulation materials while fixing a cable bundle



T50SOSSBH5E



The new head design offers additional fixing of soft materials.

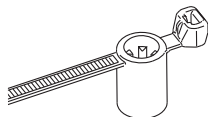
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Stud Ø	Material	Colour
155-05701	T50SOSSBH5E	165	4.6	35.0	225	5.0	PA66HS	Black (BK)

All dimensions in mm. Subject to technical changes.



Material specification please see page 21.

- **T50SSBS50TE for cable routing above the stud**
- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Bundle runs directly above weld stud with defined stand-off from the panel



T50SSBS50TE



The T50SSBS50TE allows very precise routing of cable bundles.

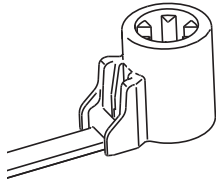
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Stud Ø	Material	Colour
155-30602	T50SSBS50TE*	160	4.6	35.0	200	5.0	PA66HS	Black (BK)
157-00083	T50SSBS60T-E*	160.0	4.6	35.0	200	6.0	PA66HS	Black (BK)

All dimensions in mm. Subject to technical changes.

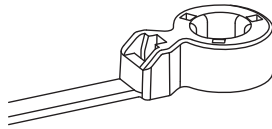
* Since the bundled cables lie directly above or on the weld stud, care must be taken to ensure that the length of the weld stud does not exceed the height of the sheath. To avoid damage, we recommend a maximum weld stud length of 16.5 mm.

1-Piece Fixing Ties for Weld Studs

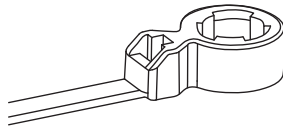
- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Bundles are routed very close to stud



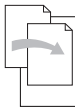
T50SOSSB55E



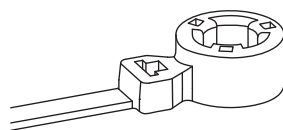
T50SOSSBD-M8



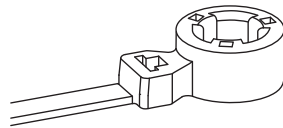
T50SOSSBD-M10



**Material specification
please see page 21.**



T50SOSSBU-M8



T50SOSSBU-M10



This outside serrated cable tie with weld stud mounting keeps the cables close to the fixing stud.



T50SOSSBD-M8



T50SOSSBD-M is made for bundles that run below the stud.

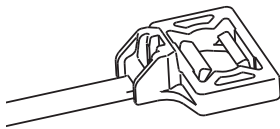
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Stud Ø	Mounting Screw Type	Material	Colour
155-12300	T50SOSSB55E	160.0	4.6	35.0	225	5.0	–	PA66HS	Black (BK)
157-00039	T50SOSSBD-M8	175.0	5.7	30.0	150	–	M8	PA66HSW	Black (BK)
157-00066	T50SOSSBU-M8	175.0	5.7	30.0	150	–	M8	PA66HSW	Grey (GY)
157-00040	T50SOSSBD-M10	175.0	5.7	30.0	150	–	M10	PA66HSW	Black (BK)
157-00067	T50SOSSBU-M10	175.0	5.7	30.0	150	–	M10	PA66HSW	Grey (GY)

All dimensions in mm. Subject to technical changes.

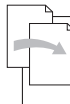
1-Piece Fixing Ties for Weld, moveable

• WSP-Serie

- 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-2



**Material specification
please see page 21.**



T50SOSWSP5E, parallel installation using two fixing ties.

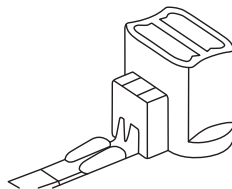
• T50SOSSB5-High-E-C-CC for 5 and 6 mm studs

• T50SOSSB6HE for 6 mm studs

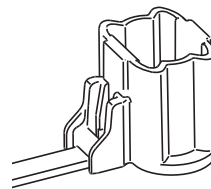
- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Provides a 5 – 6 mm lateral adjustment possibility



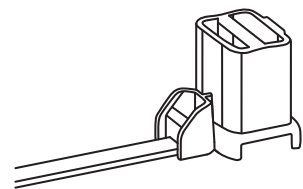
T50SOSSB5-High-E-C-CC



T50SOSSB5-High-E-C-CC



T50SOSSB6HE



T60ROSSBH6HEC

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Stud Ø	Material	Colour
157-00037	T50SOSSB5-High-E-C-CC	167.0	5.0	35.0	225	5.0, 6.0	PA66HS	Black (BK)
155-46302	T50SOSSB6HE	160.0	4.6	35.0	170	6.0	PA66HS	Black (BK)
157-00101	T60ROSSBH6HEC	227.4	5.5	55.0	300	6.0	PA66HS	Black (BK)
133-00391	T50SOSWSP5E-2	163.0	4.6	35.0	200	5.0	PA66HS	Black (BK)

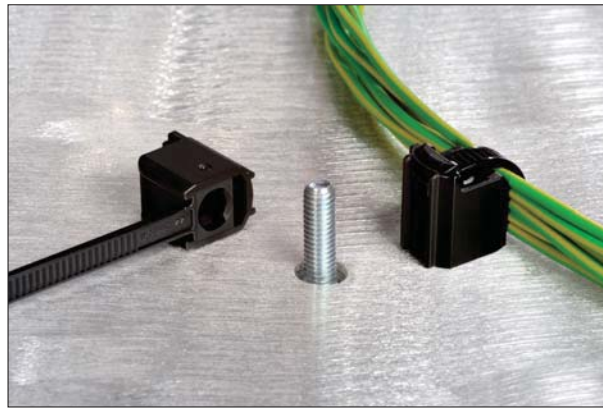
All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties for Weld Studs

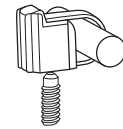
- LFC-Series for routing close to the stud

Features and Benefits

- 1-piece fixing tie for 5 mm studs
- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Bundle runs very close next to stud
- Closed stud retainer protects the bundle against damage
- Contact surface allows secure bundling with tensioning tool



LFC165-2 for bundle diameters up to 35.0 mm



LFC165-2 can be put on by hand.

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Stud Ø	Min. Tensile strength for ties (N)	Material	Colour
157-00047	LFC165-2	165	4.7	35.0	5.0	150	PA66HS	Black (BK)
155-34202	LFC165(PSA)	165	4.7	35.0	5.0	90	PA66HS	Black (BK)
131-60070	LFC155	163	4.7	26.0	5.0	160	PA66	Black (BK)

All dimensions in mm. Subject to technical changes.



Material specification please see page 21.

1-Piece Fixing Ties for Weld Studs, for Heavy Duty Applications

- WS-Series for 6.35 mm threaded studs
- WSI380 for 9.525 mm threaded studs

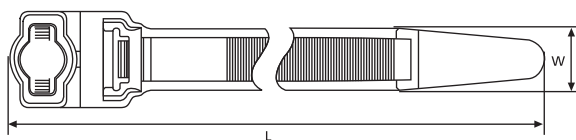
Wide strap stud-mounted cable ties are primarily designed for use in the automotive or truck industry.

Features and Benefits

- Very flexible strap and minimum pinching of soft hoses and convoluted tubing
- Low profile head for compact bundling
- Clamping rails to increase grip on round bundles
- Flexible hinge



The wide strap stud mount cable tie minimizes pinching on soft bundles.



Wide Strap Heavy Duty Stud Mount Cable Ties

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Stud Ø	Min. Tensile strength for ties (N)	Material	Colour
157-00400	WSS250	246.4	12.7	57.1	6.35	534	PA66HIRHS	Black (BK)
157-00401	WSI250	322.6	12.7	82.5	6.35	534	PA66HIRHS	Black (BK)
157-00402	WSR250	398.8	12.7	104.8	6.35	534	PA66HIRHS	Black (BK)
157-00404	WSI380	322.6	12.7	82.5	9.525	534	PA66HIRHS	Black (BK)

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties for Weld Studs (Softpush) in the strap

Features and Benefits

- For 5mm studs or 5mm ISO threaded studs
- "Soft-push" versions for easy assembly, without tool
- "Hard-push" versions for special firm fit need to be hammered onto the stud
- Releasable types: RT50RS5 and SB



With the RT50RS5 and the SB14/172 you can mount pipes or cables to a weldstud.



Material specification please see page 21.



Simple fixing to a weld stud or 5mm ISO bolt.

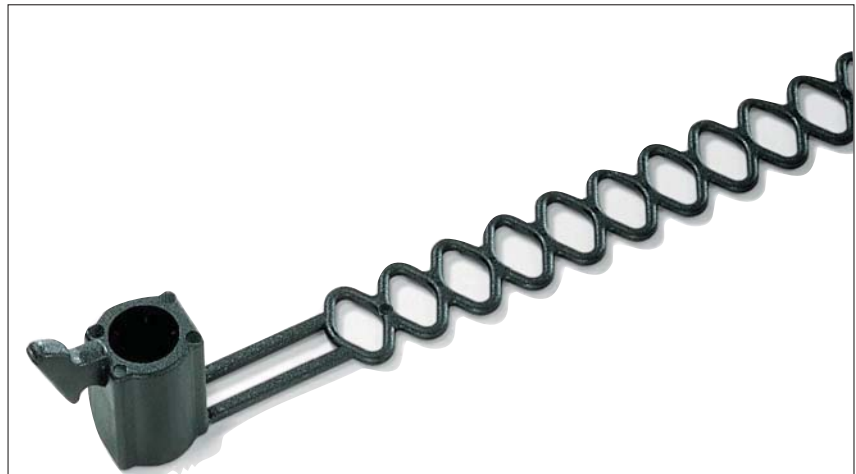
Article-No.	Type	Length (L)	Width (W)	Height (H2)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material	Colour
1-Piece Fixing Ties for Weld Studs (Softpush) in the strap								
111-07110	T50RS5	190	4.6	14.5	40.0	225	PA66	Black (BK)
1-Piece Fixing Ties for Weld Studs (Softpush) in the strap, releasable								
115-07110	RT50RS5	190	4.6	14.5	40.0	225	PA66	Black (BK)
150-10901	SBS9/230	230	5.0	10.0	60.0	245	PA66	Black (BK)
1-Piece Fixing Ties for Weld Studs (Hardpush) in the strap, releasable								
150-10900	SB9/230	230	5.0	10.0	60.0	245	PA66	Black (BK)
150-10690	SB14/172	172	5.0	15.5	40.0	245	PA66	Black (BK)
150-11400	SB14/230	230	5.0	15.5	60.0	245	PA66	Black (BK)

All dimensions in mm. Subject to technical changes.

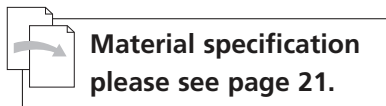
1-Piece Fixing Ties for Weld Studs, releasable, with flexible strap

Features and Benefits

- Releasable
- FBB-types for 5mm studs or 5mm ISO threaded studs
- SBR8S for M8 threaded studs
- "Soft-push" versions for easy assembly, without tool
- "Hard-push" versions for special firm fit need to be hammered onto the stud
- The versions FBB_M have a little recess for eventually welding burrs on the substructure



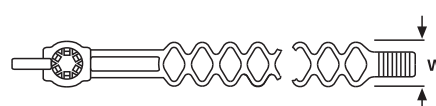
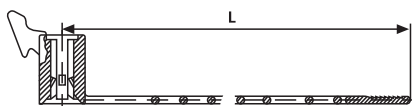
FBB one-piece fixing ties for weld studs, can be easily removed by unscrewing in an anti-clockwise direction.



Material specification
please see page 21.

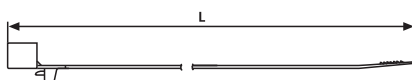
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material	Colour
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1-Piece Fixing Ties for Weld Studs (Softpush), releasable, with flexible strap



150-28140	FBB140	145	10.0	38.0	–	PA66	Black (BK)
150-29100	FBB100M	110	10.0	23.0	–	PA66	Black (BK)
150-29140	FBB140M	145	10.0	38.0	–	PA66	Black (BK)
150-29180	FBB185M	200	10.0	50.0	–	PA66	Black (BK)

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



131-60060	SBR5	220	6.0	40.0	300	PA66HS	Black (BK)
131-60058	SBR8S	215	6.0	40.0	300	PA46	Grey (GY)

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties for Weld Studs, for Heavy Duty Applications, for parallel routing

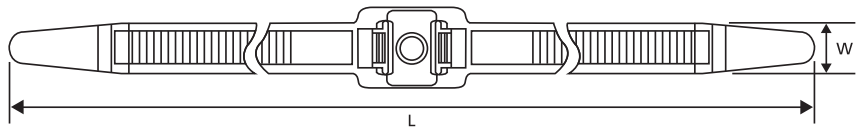
Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs ISO bolts are used and cables need to be bundled and secured.

Features and Benefits

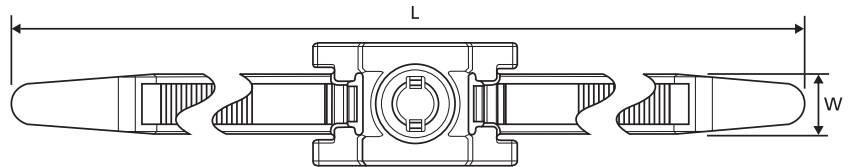
- For parallel routing of cables, wires and hoses
- Minimum pinching of soft hoses and convoluted tubing
- Easy to install without the need for a tool
- DCT9 and DCT11 are releasable
- SDCTR312 for defined standoff to substructure



Standoff Mounting Dual Clamp Ties.



Dual Clamp Ties



Standoff Mounting Dual Clamp Ties



**Material specification
please see page 21.**

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Stud Ø	Material	Colour
115-00034	DCT9	330.0	12.7	33.0	670	6.35	PA66HIR	Black (BK)
115-00033	DCT11	489.0	12.7	58.0	670	6.35	PA66HIR	Black (BK)
117-00012	SDCTR312	511.0	12.7	58.0	445	8.0	PA66HIRHSW	Black (BK)

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties for Weld Studs

Series SBH5 and SBH5SD are used mainly in the automotive industry. The SD variant is for the smallest bundle diameters, from 1.0 mm. Series SB5 and SBS5 are suitable for bundling and fastening cable looms and pipes in switch cabinet construction and automotive and construction machine industry.

Features and Benefits

- Pre-assembled 2-piece fixing tie with stud retainer
- Cable tie head can be moved after bundling
- Easy to install without the need for a tool
- SB5-types for 5mm studs or 5mm ISO threaded studs
- Types with discs can retain insulation materials while fixing a cable bundle
- Oval shape can be adjusted in a lateral position
- GBS8C for 8 mm retainer enables parallel routing

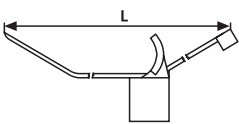

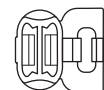


Cable ties illustrating the variety of application methods for weld stud fixing.



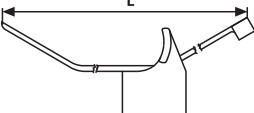

**Material specification
please see page 21.**

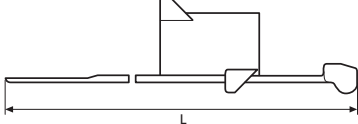

2-Piece Fixing Ties for Weld Studs, moveable

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material Cable Tie	Material Foot Part	Application Tool
								
				SB5		SB5CSD		
150-10140	T30RSB5	150	3.5	31.0	135	PA66HS	POM	1-3, 5
150-10144	T50SSB5	150	4.6	31.0	225	PA6HS	PA66HS	1-5
150-10141	T50RSB5	200	4.6	45.0	225	PA66HS	POM	1-5
156-00084	T50RSB5	200	4.6	45.0	225	PA46	PA46	1-5
156-00080	T50SOSSB5	150	4.6	31.0	225	PA66HS	POM	1-5
150-10149	T50ROSSB5	200	4.6	45.0	225	PA66HS	POM	1-5
156-00083	T50RSB5CSD	200	4.6	45.0	225	PA66HS	PA66HS	1-5
156-05906	T50ROSSB5CSD	200	4.6	45.0	225	PA66HS	PA66HS	1-5

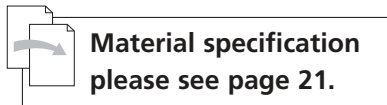
All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties for Weld Studs

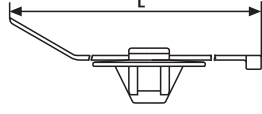

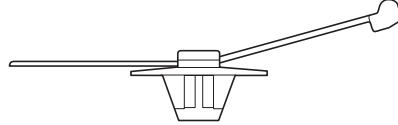

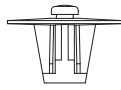

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material Cable Tie	Material Foot Part	Application Tool
  SB55								
150-21290	T30RSB55	150	3.5	31.0	135	PA66HS	PA66HS	1-3, 5
150-21293	T50SBS55	150	4.6	31.0	225	PA66HS	PA66HS	1-5
150-21291	T50RSB55	200	4.6	45.0	225	PA66HS	PA66HS	1-5
150-21297	T80ISB55	300	4.6	81.0	355	PA66HS	PA66HS	1-5
156-00079	T50SOSSB55	150	4.6	31.0	225	PA66HS	PA66	1-5
150-21299	T50ROSSB55	200	4.6	45.0	225	PA66HS	PA66HS	1-5

  T50ROSGB58C-B								
156-00251	T50ROSGB58CA	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5
156-00252	T50ROSGB58CB	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5
156-00116	T50ROSGB58CC	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5

All dimensions in mm. Subject to technical changes.



2-Piece Fixing Ties for Weld Studs, with disk

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Disc Ø	Material Cable Tie	Material Foot Part	Application Tool
  SBH5									
150-16941	T30RSBH5	150	3.5	31.0	135	30.0	PA66HS	PA66HS	1-3, 5
150-16943	T50RSBH5	200	4.6	45.0	225	30.0	PA66HS	PA66HS	1-5
150-16945	T80ISBH5	300	4.6	81.0	355	30.0	PA66HS	PA66HS	1-5
    SBH5SD SBH6SD SBH5SD-14									
150-92904	T50RSBH5-SD	200	4.6	45.0	225	30.0	PA66HS	PA66HS	1-5
150-92905	T80ISBH5SD	300	4.6	78.0	355	30.0	PA66HS	PA66HS	1-5
156-05905	T50ROSSBH5SD	200	4.6	45.0	225	30.0	PA66HS	PA66HS	1-5
150-77591	T50R-SBH5SD-14	200	4.6	45.0	222	30.0	PA66HS	PA66HS	1-5
156-00819	T50RSBH6SD	200	4.6	45.0	225	30.0	PA66HS	PA66HS	1-5

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties for Weld Studs, for parallel routing

Many applications require cables to be run parallel to each other but separated to avoid abrasion. The double mounting base, when used with two cable ties allow this to be achieved simply and quickly.

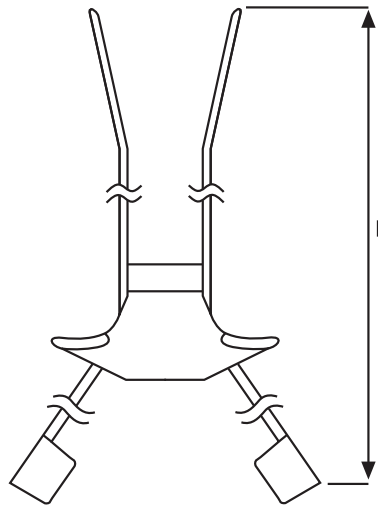
Features and Benefits

- Pre-assembled 2-piece fixing tie with stud retainer
- For parallel routing of cables, hoses or harnesses
- Cable tie head can be moved after bundling
- Easy to install without the need for a tool
- For 5 mm studs or 5 mm ISO threaded studs



Parallel fixation of two cables.

Other dimensions available on request.



T50SDSBS5, T50ROSDSBS5

Material specification please see page 21.

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Stud Ø	Material Cable Tie	Material Foot Part	Colour	Application Tool
150-56193	T50SDSBS5	150	4.6	31.0	225	5.0	PA66HS	PA66HIRHS	Black (BK)	1-5
150-56199	T50ROSDSBS5	200	4.6	45.0	225	5.0	PA66HS	PA66HIRHS	Black (BK)	1-5

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties for Edges EdgeClip-Family

These cable ties and Edge Clip 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

- Easy assembly, just clip on per hand
- For edges of 1 – 3 mm or 3 – 6 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



T50ROSEC10 fitted onto a plastic panel to hold a door harness.



T50ROSEC23 - the cable bundle runs parallel with the edge.



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

The silver-grey clamp, the heart of our EdgeClips, consists of double-tempered spring steel in accordance with DIN EN 10132-4 C75S. The spring steel gives the clamp both the necessary rigidity to provide high pull-off forces and also sufficient flexibility for various possible applications. The double coating is applied initially with a zinc plate system followed by inorganic surface sealing. Naturally, no chromium (VI) is used in this process. The clamp therefore complies with the current EU Directive

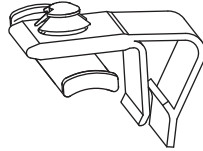
200/53/EC on end of life vehicles and the prohibition on heavy metals. The refined spring-steel clamp also fulfils the requirements for resistance to salt spray stipulated in DIN EN ISO 9227 NSS (min. 840 h without corrosion of base metal) and DIN EN ISO 6270-Z-CH (min. 720 h without corrosion of base material). This solution has therefore been approved by many OEMs for exposed installation locations, e.g. in engine compartments and the running-gear area.

1-Piece Fixing Ties for Edges

• EdgeClip-Family

Features and Benefits

- Cable tie head always situated in defined position
- Suitable for minimum bundle diameters of 1 mm
- Outside serrated tie prevents bundle from being damaged
- For edges of 1 – 3 mm



EdgeClips are also available on request for panel thickness from 4 - 7mm.

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material Cable Tie	Material Foot Part	Application Tool	Drawing
148-00200	T50SOSEC12E	160.0	4.6	35.0	180	PA66HS	PA66HS	1-5	
126-00000	T50SOSEC13E	160.0	4.6	35.0	180	PA66HS	PA66HS	1-5	
126-00036	T50SOSEC34E	155.0	4.6	35.0	180	PA66HS	PA66HS	1-5	
133-00059	T40XEC5SP-E	85.0	4.0	15.0	178	PA66HS	PA66HS	1-5	

All dimensions in mm. Subject to technical changes.



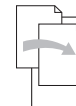
Material specification please see page 21.

2-Piece Fixing Ties for Edges, 1,0 - 3,0 mm

• EdgeClip-Family

Features and Benefits

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



Material specification
please see page 21.

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material Cable Tie	Material Foot Part	Application Tool	Drawing
150-76090	T30REC4A	150	3.5	32.0	135	PA66HS	PA66HIRHS	1-3, 5	
150-76091	T50REC4A	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-10	
150-76093	T50SOSEC4A	150	4.6	35.0	225	PA66HS	PA66HIRHS	1-5	
150-76099	T50ROSEC4A	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00570	T50ROSEC4A-W	200	4.6	45.0	225	PA66UV	PA66UV	1-5	
150-76080	T30REC4B	150	3.5	32.0	135	PA66HS	PA66HIRHS	1-3, 5	
156-00109	T50SOSEC4B	150	4.6	35.0	225	PA66HS	PA66HIRHS	1-5	
150-76079	T50ROSEC4B	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00003	T30REC5A	150	3.6	33.0	135	PA66HS	PA66HIRHS	1-3, 5	
150-40593	T50SOSEC5A	150	4.6	35.0	225	PA66HS	PA66HIRHS	1-5	
150-40591	T50ROSEC5A	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
150-40582	T50REC5B	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-10	
150-40583	T50SOSEC5B	150	4.6	31.0	225	PA66HS	PA66HIRHS	1-5	
150-40581	T50ROSEC5B	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
155-37104	T18REC9SD	100	2.5	20.0	80	PA66HS	PA66HIRHS	1-5	
156-00019	T50SOSEC9SD	150	4.6	31.0	225	PA66HS	PA66HIRHS	1-5	
156-05903	T50ROSEC9	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
155-38304	T18REC10SD	100	2.5	20.0	80	PA66HS	PA66HIRHS	1-3, 5	
156-00015	T50SOSEC10	150	4.6	31.0	225	PA66HS	PA66HIRHS	1-5	
156-05904	T50ROSEC10	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00017	T50SOSEC21	150	4.6	35.0	225	PA66HS	PA66HIRHS	1-5	
156-00010	T50ROSEC21	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00576	T50ROSEC22	200	4.6	45.0	225	PA66UV	PA66HIRHS	1-10	
156-00011	T50ROSEC22	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	

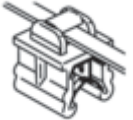
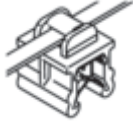

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties for Edges, 3,0 - 6,0 mm

• EdgeClip-Family

Features and Benefits

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

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material Cable Tie	Material Foot Part	Application Tool	Drawing
156-04600	T18ROSEC19	100.0	2.5	20.0	80	PA66HS	PA66HIRHS	1–3, 5	
156-04601	T50SOSEC19	150.0	4.6	31.0	225	PA66HS	PA66HIRHS	1–5	
156-04602	T50ROSEC19	200.0	4.6	45.0	225	PA66HS	PA66HIRHS	1–5	
156-00016	T50SOSEC20	150.0	4.6	35.0	225	PA66HS	PA66HIRHS	1–5	
156-00020	T50ROSEC20	200.0	4.6	45.0	225	PA66HS	PA66HIRHS	1–5	
156-00006	T50ROSEC23	200.0	4.6	45.0	225	PA66HS	PA66HIRHS	1–5	
156-00007	T50ROSEC24	200.0	4.6	45.0	225	PA66HS	PA66HIRHS	1–5	

All dimensions in mm. Subject to technical changes.


Other combinations between cable tie and foot part available on request.

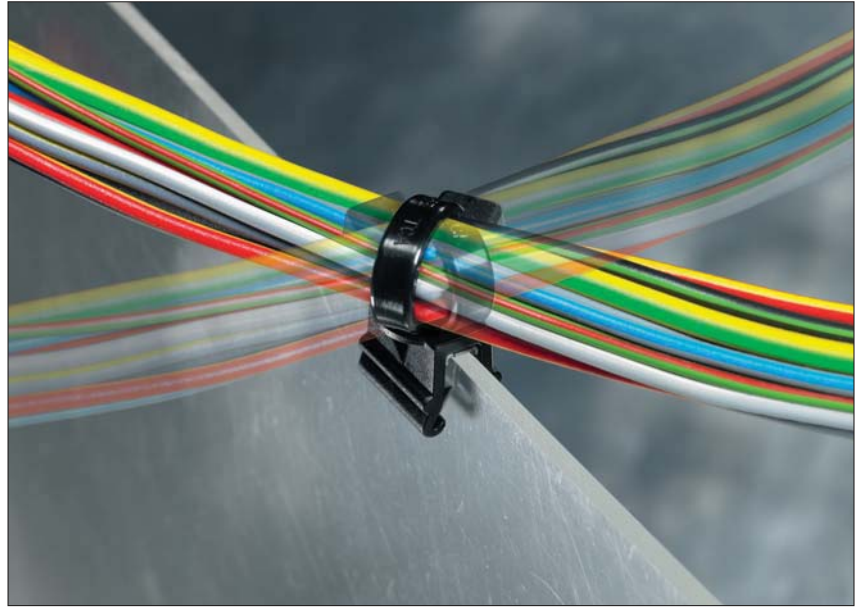
Material specification please see page 21.

2-Piece Fixing Ties for Edges, twistable

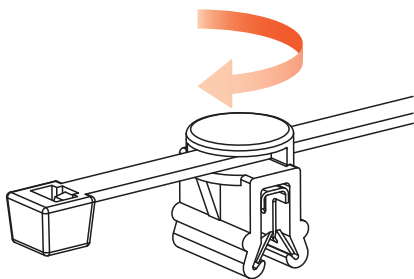
Features and Benefits

- 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 during mounting

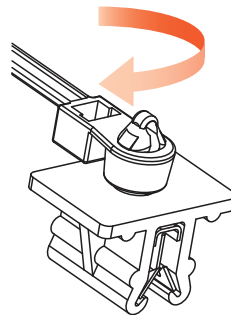
 **Material specification please see page 21.**



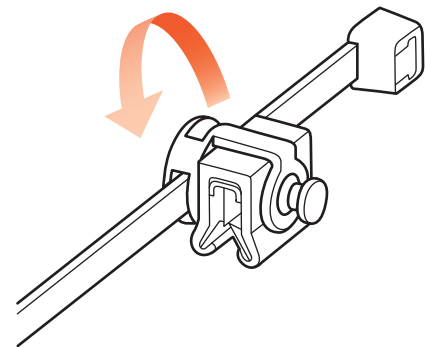
EdgeClip CBTO50R, rotatable 90°.



CBT50R - the bundle can run above an edge.



EdgeClip CBT30MR, rotatable 360°



CBTO50RSTUD5

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material Cable Tie	Material Foot Part	Panel Thickness max.	Application Tool
156-00049	CBT30MR	160	3.5	32.0	135	PA66HS	POM	2.5	1–3, 5
156-01601	CBTO50R	200	4.6	47.0	225	PA66HS	PA66HIRHS	3.0	1–3, 5
156-00380	CBTO50RSTUD5	200	4.6	50.0	225	PA66HS	PA66HIRHS	3.0	1–3, 5

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties for Edges, for Holes

Ideal for use on 2.5 mm edges, the tie's reduced installation height makes it ideal for use wherever space is at a premium.

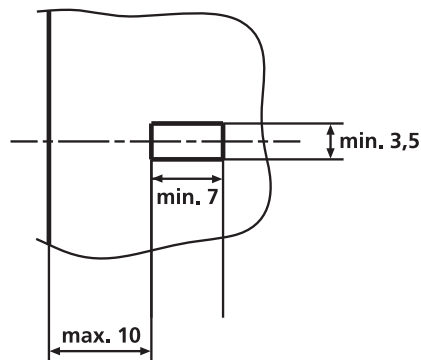
Features and Benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Easy to assemble by hand
- Cable tie head can be moved after bundling
- For edges of 2.5 mm
- Secure fixing of the EdgeClip into drill hole
- Ideal for use wherever space is at its premium

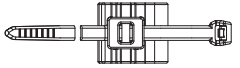
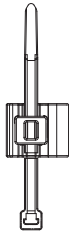


The holding tab increases the tensile strength additionally.

Material specification please see page 21.



Position of the drill hole for the holding tab

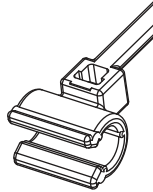
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material Cable Tie	Material Foot Part	Application Tool	Drawing
150-45299	T50ROS-EC2,5	200.0	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
150-45292	T50REC2.5B	200.0	4.6	45.0	225	PA66HS	PA66HIRHS	1-10	

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Tie with Pipe Clip

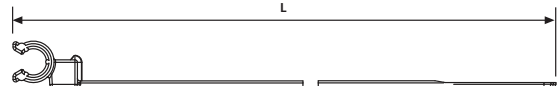
Features and Benefits

- Easily locks onto a cable, tube or hose (D = 4.5 – 5.2 mm)
- Cable tie head always in defined position
- Suitable for post-installation of bundles



Brake cable fixing

Material specification
please see page 21.



Brake cable fixing

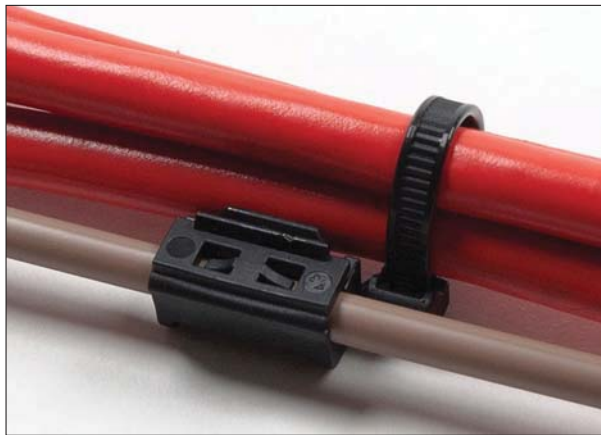
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Attach to Ø	Material	Colour
148-00100	Bracket brake line	154.0	3.6	35.0	133	5.1	PA66HS	Natural (NA)
148-00101	Bracket brake line	154.0	3.6	35.0	133	5,1	PA46	Grey (GY)

All dimensions in mm. Subject to technical changes.

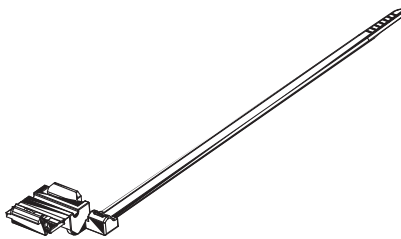
One Piece Fixing Ties with Wire Clip

Features and Benefits

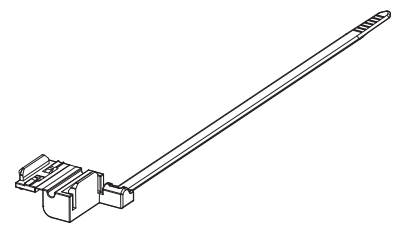
- Cable tie head always in defined position
- Easy to close by simply pressing the cover
- Firm sit as a variation of sizes for different wires is available
- Suitable for post-installation of bundles



T50SOSWA - the easy way for parallel guidance of cables next to a wire.



T50SOSWA-types



T50SOSWB-types

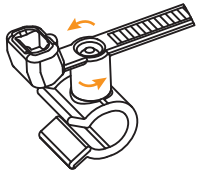
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Attach to Ø	Material	Colour
148-00089	T50SOSWA1.8E	150.0	4.6	35.0	225	1.8	PA66HS	Black (BK)
148-00088	T50SOSWA2.0E	150.0	4.6	35.0	225	2.0	PA66HS	Black (BK)
148-00095	T50SOSWA3.4E	150.0	4.6	35.0	225	3.4	PA66HS	Black (BK)
148-00092	T50SOSWA4.3E	150.0	4.6	35.0	225	4.3	PA66HS	Black (BK)
148-00090	T50SOSWB1.8E	150.0	4.6	35.0	225	1.8	PA66HS	Black (BK)
148-00093	T50SOSWB2.0E	150.0	4.6	35.0	225	2.0	PA66HS	Black (BK)
148-00096	T50SOSWB3.4E	150.0	4.6	35.0	225	3.4	PA66HS	Black (BK)
148-00091	T50SOSWB4.3E	150.0	4.6	35.0	225	4.3	PA66HS	Black (BK)

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties with Pipe Clip, twistable 360°

Features and Benefits

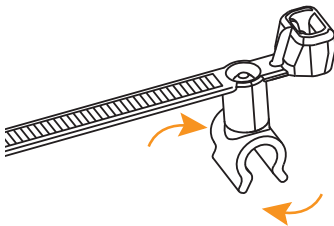
- Simply clip on a wire or hose
- Fixing clip offers full 360° rotation
- Routed cable can move in any direction in relation to the fixing point
- Inside serrated cable tie
- Ideally used in the Automotive Industry



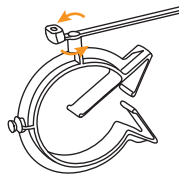
T50SVC65.




T50SVC5 rotates in any direction.



T50SVC5, T50SVC4



T50SVCOC39-45

 **Material specification
please see page 21.**

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Attach to Ø	Material	Colour
156-00791	T50SVC3.5	155	4.7	35.0	225	3.45 - 3.55	PA66HS, PA66HIRHS	Black (BK)
156-00318	T50SVC45	155	4.7	35.0	225	3.8 - 4.2	PA66HS, PP	Black (BK), Natural (NA)
156-00447	T50SVC4	155	4.7	35.0	225	3.8 - 4.2	PA66HS, PA66HIRHS	Black (BK)
155-31202	T50SVC5	155	4.7	35.0	225	4.5 - 5.2	PA66HS	Black (BK)
156-00155	T50SVC65	155	4.7	35.0	225	6.5 - 8.0	PA66HS, PA66HIRHS	Black (BK)
156-00134	T50SVCOC10-14	155	4.7	35.0	225	10.0 - 14.0	PA66HS, PA66HIRHS	Black (BK)
156-00135	T50SVCOC15-18	155	4.7	35.0	225	15.0 - 18.0	PA66HS, PA66HIRHS	Black (BK)
156-00136	T50SVCOC19-245	155	4.7	35.0	225	19.0 - 24.5	PA66HS, PA66HIRHS	Black (BK)
156-00272	T50SVCOC25-31	155	4.7	35.0	225	25.0 - 31.0	PA66HS, PA66HIRHS	Black (BK)
156-00273	T50SVCOC31-39	155	4.7	35.0	225	31.0 - 39.0	PA66HS, PA66HIRHS	Black (BK)
156-00137	T50SVCOC39-45	155	4.7	35.0	225	39.0 - 45.0	PA66HS, PA66HIRHS	Black (BK)
156-00128	T50SMVCOC1014	210	4.7	50.0	225	10.0 - 14.0	PA66HS, PA66HIRHS	Black (BK)
156-00129	T50SMVCOC15-18SET	210	4.7	50.0	225	15.0 - 18.0	PA66HS, PA66HIRHS	Black (BK)
156-00130	T50SMVCOC19245	210	4.7	50.0	225	19.0 - 24.5	PA66HS, PA66HIRHS	Black (BK)
156-00577	T50SMVCOC19245	210	4.7	50.0	225	19.0 - 24.5	PA46	Grey (GY)
156-00303	T50SMVCOC25-31	210	4.7	50.0	225	25.0 - 31.0	PA66HS, PA66HIRHS	Black (BK)
156-00304	T50SMVCOC31-39	210	4.7	50.0	225	31.0 - 39.0	PA66HS, PA66HIRHS	Black (BK)
156-00131	T50SMVCOC39-45SET	210	4.7	50.0	225	39.0 - 45.0	PA66HS, PA66HIRHS	Black (BK)

All dimensions in mm. Subject to technical changes.

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
- For OC1 and 2A additional cable tie dimensions are available
- CBTO-series for cable ties up to 5 mm



EdgeClip CBTO50R, verdrehbar um 90°.

Other dimensions available on request.

Material specification please see page 21.

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Attach to Ø	Colour	Material	Drawing
156-00012	T30ROC1A	150	3.6	31.0	4.0 - 10.0	Black (BK)	PA66HS, PA66HIRHS	
156-00036	T50ROC1A	200	4.6	45.0	4.0 - 10.0	Black (BK)	PA66HS, PA66HIRHS	
156-00505	T30ROC1B	150	3.6	31.0	4.0 - 10.0	Black (BK)	PA66HS, PA66HIRHS	
156-00306	T50ROC1B	200	4.6	45.0	4.0 - 10.0	Black (BK)	PA66HS, PA66HIRHS	
156-00013	T30ROC2A	150	3.6	31.0	6.5 - 7.5	Black (BK)	PA66HS, PA66HIRHS	
156-00014	T30ROC2A	150	3.6	31.0	6.5 - 7.5	Grey (GY)	PA46	
156-00470	T30ROC2B	150	3.6	31.0	6.5 - 7.5	Black (BK)	PA66HS, PA66HIRHS	

2-Piece Fixing Ties with Pipe, twistable 90°

156-00416	T50ROC10-14CBTO-SD-SET	200	4.6	45.0	10.0 - 14.0	Black (BK)	PA66HS, PA66HIRHS	
156-00419	T50ROC15-18CBTO-SD-SET	200	4.6	45.0	15.0 - 18.0	Black (BK)	PA66HS, PA66HIRHS	
156-00422	T50ROC19-24.5CBTO-SD-SET	200	4.6	45.0	19.0 - 24.5	Black (BK)	PA66HS, PA66HIRHS	

All dimensions in mm. Subject to technical changes.

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

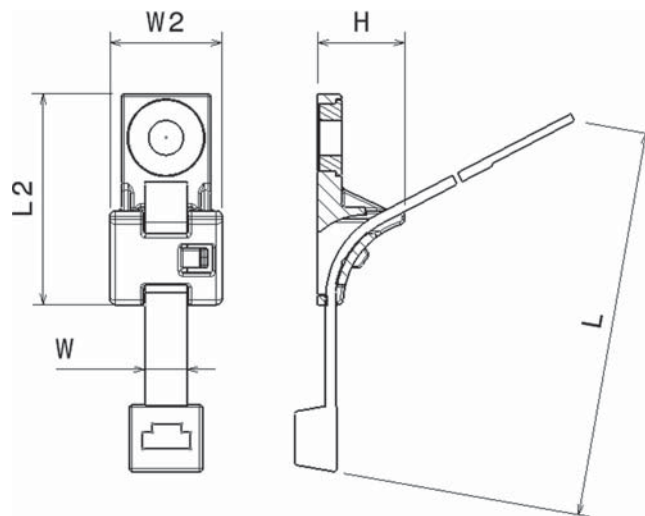
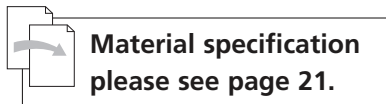
Used in the Automotive and Truck Industry for harness fixing in the engine body, these parts offer solutions in many other industrial applications with difficult environment.

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 can be assembled on either screw or stud



HDM with cable tie (L = length of the tie's flat")

Article-No.	Type	Length (L)	Length (L2)	Width (W)	Width (W2)	Height (H)	Bundle Ø max.	Mounting Screw Type	Material	Colour
HDM6-Series for M6-Screws										
156-00406	T120RHDM6	380.0	38.0	7.6	20.0	15.5	100	M6	PA66HIRHS	Black (BK)
156-00407	T120RHDM6	380.0	38.0	7.6	20.0	15.5	100	M6	PA46	Grey (GY)
HDM8-Series for M8-Screws										
156-00408	T120RHDM8	380.0	38.0	7.6	20.0	15.5	100	M8	PA66HIRHS	Black (BK)
156-00409	T120RHDM8	380.0	38.0	7.6	20.0	15.5	100	M8	PA46	Grey (GY)

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

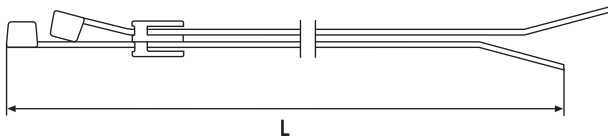


T120RCoupler can be used for parallel routing of two cable ties.

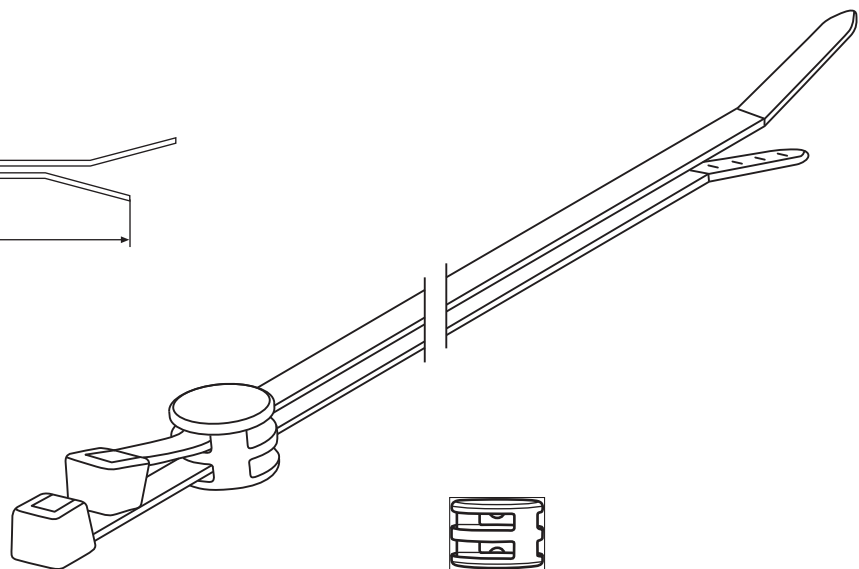


The second tie can be used for post-installations.

 **Material specification please see page 21.**



T120RCoupler with two ties



T120RCoupler

Fixing Element - Coupler

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile strength for ties (N)	Material Cable Tie	Material Foot Part	Colour
156-00276	T50RCOUPLER	200	4.6	50.0	225	PA66HIR(S)	PA66HIRHS	Black (BK)
156-00382	T50RCOUPLER	200	4.6	50.0	225	PA46	PA46	Grey (GY)
156-00550	T120RSINGLECOUPLER	380	7.6	100.0	535	PA66HIR(S)	PA66HIRHS	Black (BK)

All dimensions in mm. Subject to technical changes.