



## Fixing Ties for Edges

- 1-Piece, 1.0 - 3.0 mm
- 2-Piece, 1.0 - 3.0 mm
- 2-Piece, 3.0 - 6.0 mm

### Features and Benefits

Available with either 'inside' or 'outside' serrated ties these two piece assemblies simply push onto metal or plastic 'edges' with thicknesses from 1.0 to 3.0mm and from 3.0 to 6.0mm. The high 'pull off' forces are due to the integrated metal clamp.

Different Edge Clip variations are available. One version allows for cables to run parallel to the metal/plastic edge, whilst another allows for installation at 90 degrees to the metal edge.

The clip is simply pushed on by hand and held firmly in place by the integrated metal clamp. No fixing hole is necessary.

Combined with the outside serrated (OS) ties, specially designed to protect cables from chafing (see section 1.1) and wear, the Edge Clip family provides an excellent fastening solution.

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 50021-SS (min. 720 h with corrosion of base metal). This solution has therefore been approved by many OEMs for exposed installation locations, e.g. in engine compartments and the running-gear area.

### Application

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.



T50ROSEC10 fitted onto a plastic panel to hold a Ø 6mm harness.



T50ROSEC23 - the cable bundle runs parallel with the edge.



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

Material Data	
Material	<b>Polyamide 6.6 Heat Stabilised (PA66HS)</b>
Colour	<b>Black (BK)</b>
Operating Temperature	<b>-40 °C to +105 °C continuous, (+145 °C for 500 h)</b>
Flammability	<b>UL94 V2</b>



Material Data	
Material	<b>Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)</b>
Colour	<b>Black (BK)</b>
Operating Temperature	<b>-40 °C to +105 °C</b>
Flammability	<b>UL94 V2</b>





## 1-Piece Fixing Ties for Edges, 1.0 - 3.0 mm

### EdgeClip-Family

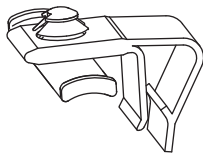
The single-piece mounting ties in the EdgeClip family are designed for extremely small bundle diameters of 1.0 mm and above. Thanks to its structure, the position of the head of the tie is always clearly defined, even when installed. The base section and the tie are permanently connected together. The outside-serrated design of the tie reduces the risk of chafing. The T40XEC is perfectly suitable for use in extremely restricted spaces.

Technical Table

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	4.6	35.0	180	PA66HS	PA66HS	1-5	
126-00000	T50SOSEC13E	160	4.6	35.0	180	PA66HS	PA66HS	1-5	
126-00036	T50SOSEC34E	155	4.6	35.0	180	PA66HS	PA66HS	1-5	
133-00059	T40XEC5SPE	85	4.0	15.0	178	PA66HS	PA66HS	1-5	

All dimensions in mm. Subject to technical changes.

Edge Clips for panel thickness from 4 - 7 mm are available on request.



For more EdgeClip products please see page 191.



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

### EdgeClip-Family

With the Edge Clip family the bundled cables can be located either above or to the side of a fixing. In all two piece mounting ties, the edge clip moves freely along the tie. This allows the head of the tie to be rotated during mounting for installation in the ideal position.

Technical Table

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	<b>T30REC4A</b>	150	3.5	32.0	135	PA66HS	PA66HIRHS	1-3, 5	
150-76091	<b>T50REC4A</b>	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-10	
150-76093	<b>T50SOSEC4A</b>	150	4.6	35.0	225	PA66HS	PA66HIRHS	1-5	
150-76099	<b>T50ROSEC4A</b>	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00570	<b>T50ROSEC4A-W</b>	200	4.6	45.0	225	PA66W	PA66W	1-5	
150-76080	<b>T30REC4B</b>	150	3.5	32.0	135	PA66HS	PA66HIRHS	1-3, 5	
156-00009	<b>T50REC4B</b>	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-10	
156-00109	<b>T50SOSEC4B</b>	150	4.6	35.0	225	PA66HS	PA66HIRHS	1-5	
150-76079	<b>T50ROSEC4B</b>	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00003	<b>T30REC5A</b>	150	3.6	33.0	135	PA66HS	PA66HIRHS	1-3, 5	
150-40593	<b>T50SOSEC5A</b>	150	4.6	35.0	225	PA66HS	PA66HIRHS	1-5	
150-40591	<b>T50ROSEC5A</b>	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
150-40582	<b>T50REC5B</b>	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-10	
150-40583	<b>T50SOSEC5B</b>	150.0	4.6	31.0	225	PA66HS	PA66HIRHS	1-5	
150-40581	<b>T50ROSEC5B</b>	200.0	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
155-37104	<b>T18REC9SD</b>	100	2.5	20.0	80	PA66HS	PA66HIRHS	1-5	
156-00019	<b>T50SOSEC9SD</b>	150	4.6	31.0	225	PA66HS	PA66HIRHS	1-5	
156-05903	<b>T50ROSEC9</b>	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
155-38304	<b>T18REC10SD</b>	100	2.5	20.0	80	PA66HS	PA66HIRHS	1-3, 5	
156-00015	<b>T50SOSEC10</b>	150	4.6	31.0	225	PA66HS	PA66HIRHS	1-5	
156-05904	<b>T50ROSEC10</b>	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00017	<b>T50SOSEC21</b>	150	4.6	35.0	225	PA66HS	PA66HIRHS	1-5	
156-00010	<b>T50ROSEC21</b>	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00576	<b>T50REC22</b>	200.0	4.6	45.0	225	PA66W	PA66HIRHS	1-10	
156-00011	<b>T50ROSEC22</b>	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

The Edge Clips are produced as two part mounting clips for metal or plastic edge mounting of 3.0 to 6.0mm. The 'loose' tie means the head can be rotated during fitting for installation in the best position with respect to the tie closure. Combined with our outside-serrated (OS) ties, they reduce the risk of chafe and cable damage by offering a smooth surface to the cable insulation and are suitable for minimum bundle diameters of 1.0mm.

Application Tool	Registration Numbers
MK3SP	1
MK3PNSP2, MK7P	2
MK7	3
MK7HT	4
MK20	5
MK6	6
MK9P	7
MK9	8
MK9HT	9
MK21	10

For detailed information on Application Tools please refer to page 561.

**Combinations with other cable ties are possible. For further information please contact us.**

**For more EdgeClip products please see page 191.**

Technical Table

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	2.5	20.0	80	PA66HS	PA66HIRHS	1-3, 5	
156-04601	T50SOSEC19	150	4.6	31.0	225	PA66HS	PA66HIRHS	1-5	
156-04602	T50ROSEC19	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00016	T50SOSEC20	150	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	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	
156-00007	T50ROSEC24	200	4.6	45.0	225	PA66HS	PA66HIRHS	1-5	

All dimensions in mm. Subject to technical changes.