

## 1-piece fixing ties for edges

### EdgeClip-Series

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

#### Features and benefits

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



[www.HellermannTyton.com/EdgeClip-cat22](http://www.HellermannTyton.com/EdgeClip-cat22)



**Material specification  
please see page 26.**



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

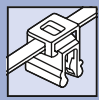


*1-Piece Fixing Tie T50SOSEC12 can be pushed easily on edges.*

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.

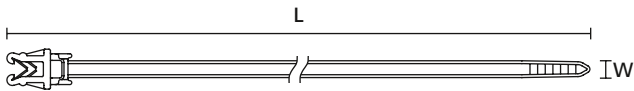
The double coating is applied initially with a zinc plate system followed by inorganic surface sealing. Naturally, no chromium (VI) is used in this

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-Series



T50SOSEC12E



\* AS Anti-Slip Ties inhibit sideways movement on the bundle.

| TYPE                 | Drawing | Panel Thickness | Width (W) | Length (L) | Bundle Ø max. | N   | Material  | Colour     | Tools        | Article-No. |
|----------------------|---------|-----------------|-----------|------------|---------------|-----|-----------|------------|--------------|-------------|
| T50SOSEC12E          |         | 1.0 - 3.0       | 4.6       | 160.0      | 35.0          | 150 | PA46      | Grey (GY)  | 2-3;5-6;8;10 | 126-00253   |
|                      |         | 1.0 - 3.0       | 4.6       | 160.0      | 35.0          | 180 | PA66HS    | Black (BK) | 2-3;5-6;8;10 | 148-00200   |
| T50SOSEC13E          |         | 1.0 - 3.0       | 4.6       | 160.0      | 35.0          | 180 | PA66HS    | Black (BK) | 2-3;5-6;8;10 | 126-00000   |
| T40XEC5SP-E          |         | 1.0 - 3.0       | 4.0       | 85.0       | 15.0          | 178 | PA66HS    | Black (BK) | 2;5-6;8      | 133-00059   |
| T50SOSEC34E          |         | 1.0 - 3.0       | 4.6       | 155.0      | 35.0          | 180 | PA66HS    | Black (BK) | 2-3;5-6;8;10 | 126-00036   |
| T50SOSEC20-E         |         | 3.0 - 6.0       | 4.6       | 150.0      | 35.0          | 180 | PA66HS    | Black (BK) | 2-3;5-6;8;10 | 126-00235   |
| T50SOSAS-EC1.5-4TVE* |         | 1.5 - 4.0       | 4.6       | 162.5      | 35.0          | 180 | PA66HIRHS | Black (BK) | 2-3;5-6;8;10 | 126-00354   |

All dimensions in mm. Subject to technical changes.

| Recommended Tools |      |      |          |      |      |      |
|-------------------|------|------|----------|------|------|------|
|                   | 2    | 3    | 5        | 6    | 8    | 10   |
|                   | MK20 | MK21 | MK3PNSP2 | EVO7 | MK7P | EVO9 |
|                   | 549  | 549  | 550      | 552  | 554  | 553  |

For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!  
[www.HT.click/9-193](http://www.HT.click/9-193)



## Material Specification Overview

| MATERIAL  | Material Shortcut | Operating Temperature                                | Colour**                 | Flammability | Material Properties*  | Material Specifications |
|---|-------------------|--|--------------------------|--------------|---|-------------------------|
| Aluminium alloy   | AL                | -40 °C to +180 °C                                    | Natural (NA)             |              | <ul style="list-style-type: none"> <li>Corrosion resistant</li> <li>Antimagnetic</li> </ul>   | RoHS                    |
| Chloroprene Rubber  | CR                | -20 °C to +80 °C                                     | Black (BK)               |              | <ul style="list-style-type: none"> <li>Weather resistant</li> <li>High yield strength</li> </ul>  | RoHS                    |
| Ethylene Tetrafluoroethylene (Tefzel®)                      | E/TFE             | -80 °C to +170 °C                                    | Blue (BU)                | UL 94 V0     | <ul style="list-style-type: none"> <li>Resistance to radioactivity</li> <li>UV resistant, not moisture sensitive</li> <li>Good chemical resistance to acids, bases, oxidizing agents</li> </ul>   | RoHS                    |
| Polyacetal  | POM               | -40 °C to +90 °C, (+110 °C, 500 h)                   | Natural (NA)             | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Flexible at low temperature</li> <li>Not moisture sensitive</li> <li>Robust on impact</li> </ul>  | RoHS                    |
| Polyamide 11  | PA11              | -40 °C to +85 °C, (+105 °C, 500 h)                   | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Bio-plastic, derived from vegetable oil</li> <li>Strong impact resistance at low temperature</li> <li>Very low moisture absorption</li> <li>Weather resistant</li> <li>Good chemical resistance</li> </ul> | HF<br>RoHS              |
| Polyamide 12  | PA12              | -40 °C to +85 °C, (+105 °C, 500 h)                   | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Good chemical resistance to acids, bases, oxidizing agents</li> <li>UV resistant</li> </ul>  | HF<br>RoHS              |
| Polyamide 4.6   | PA46              | -40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h) | Natural (NA), Grey (GY)  | UL 94 V2     | <ul style="list-style-type: none"> <li>Resistance to high temperatures</li> <li>Very moisture sensitive</li> <li>Low smoke sensitivity</li> </ul>   | HF<br>LFH<br>RoHS       |
| Polyamide 6   | PA6               | -40 °C to +80 °C                                     | Black (BK)               | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> </ul>   | RoHS                    |
| Polyamide 6, high impact modified                           | PA6HIR            | -40 °C to +80 °C                                     | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> </ul>  | RoHS                    |
| Polyamide 6.6   | PA66              | -40 °C to +85 °C, (+105 °C, 500 h)                   | Black (BK), Natural (NA) | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> </ul>   | HF<br>RoHS              |
| Polyamide 6.6, glass-fibre reinforced                       | PA66GF13          | -40 °C to +105 °C                                    | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Good resistance to lubricants, fuels, salt water and solvents</li> </ul>   | HF<br>RoHS              |
| Polyamide 6.6, heat and UV-stabilised                       | PA66HSUV          | -40 °C to +105 °C                                    | Black (BK)               | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> <li>Modified elevated maximum temperature</li> <li>UV resistant</li> </ul>  | HF<br>RoHS              |
| Polyamide 6.6, heat stabilised                              | PA66HS            | -40 °C to +105 °C                                    | Black (BK), Natural (NA) | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> <li>Modified elevated maximum temperature</li> </ul>  | HF<br>RoHS              |
| Polyamide 6.6, high impact modified                         | PA66HIR           | -40 °C to +80 °C, (+105 °C, 500 h)                   | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> </ul>  | RoHS                    |
| Polyamide 6.6, high impact modified, heat and UV-stabilised | PA66HIRHSUV       | -40 °C to +110 °C                                    | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> <li>Modified elevated maximum temperature</li> <li>High yield strength, UV resistant</li> </ul>                        | RoHS                    |
| Polyamide 6.6, high impact modified, heat stabilised        | PA66HIRHS         | -40 °C to +105 °C                                    | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> <li>Modified elevated maximum temperature</li> </ul>   | RoHS                    |
| Polyamide 6.6, high impact modified, scan black)            | PA66HIR(S)        | -40 °C to +80 °C, (+105 °C, 500 h)                   | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> </ul>  | RoHS                    |
| Polyamide 6.6, UV-resistant                                 | PA66W             | -40 °C to +85 °C, (+105 °C, 500 h)                   | Black (BK)               | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> <li>UV resistant</li> </ul>   | HF<br>RoHS              |

| MATERIAL  | Material Shortcut | Operating Temperature                 | Colour**                    | Flammability           | Material Properties*  | Material Specifications |
|---|-------------------|---------------------------------------|-----------------------------|------------------------|---|-------------------------|
| <b>Polyamide 6.6,</b><br>with metal particles   | PA66MP            | -40 °C to +85 °C,<br>(+105 °C, 500 h) | Blue (BU)                   | UL 94 HB               | • High yield strength<br>• Metal and X-Ray detectable   | HF<br>RoHS              |
| <b>Polyamide 6.6,</b><br>with metal particles   | PA66MP+           | -40 °C to +85 °C                      | Blue (BU)                   | not flame<br>retardant | • High yield strength<br>• Metal and X-Ray detectable   | HF<br>RoHS              |
| <b>Polyamide 6.6 V0</b>   | PA66V0            | -40 °C to +85 °C                      | White (WH)                  | UL 94 V0               | • High yield strength<br>• Low smoke emission   | HF<br>LFH<br>RoHS       |
| <b>Polyester</b>  | SP                | -50 °C to +150 °C                     | Black (BK)                  |                        | • UV resistant<br>• Good chemical resistance to most<br>acids, bases and oils   | HF<br>LFH<br>RoHS       |
| <b>Polyetheretherketone</b>   | PEEK              | -55 °C to +240 °C                     | Beige (BGE)                 | UL 94 V0               | • Resistance to radioactivity<br>• Not moisture sensitive<br>• Good chemical resistance to acids,<br>bases, oxidising agents  | HF<br>LFH<br>RoHS       |
| <b>Polyethylene</b>   | PE                | -40 °C to +50 °C                      | Black (BK),<br>Grey (GY)    | UL 94 HB               | • Low moisture absorption<br>• Good chemical resistance to most<br>acids, bases, alcohol, oils  | HF<br>RoHS              |
| <b>Polyolefin</b>   | PO                | -40 °C to +90 °C                      | Black (BK)                  | UL 94 V0               | • Low smoke emissions   | HF<br>LFH<br>RoHS       |
| <b>Polypropylene</b>  | PP                | -40 °C to +115 °C                     | Black (BK),<br>Natural (NA) | UL 94 HB               | • Floats in water<br>• Moderate yield strength<br>• Good chemical resistance to acids,<br>bases and solvents  | HF<br>RoHS              |
| <b>Polypropylene,<br/>Ethylene Propylene<br/>Diene Terpolymer</b><br>rubber free of Nitrosamine | PP, EPDM          | -20 °C to +95 °C                      | Black (BK)                  | UL 94 HB               | • Good resistance to high temperature<br>• Good chemical and abrasion<br>resistance   | HF<br>RoHS              |
| <b>Polypropylene</b><br>with metal particles  | PPMP              | -40 °C to +115 °C                     | Blue (BU)                   | UL 94 HB               | • Metal and X-Ray detectable<br>• Heat resistant<br>• Moderate yield strength<br>• Good chemical resistance   | RoHS                    |
| <b>Polypropylene</b><br>with metal particles  | PPMP+             | -40 °C to +85 °C                      | Blue (BU)                   | not flame<br>retardant | • High yield strength<br>• Metal and X-Ray detectable   | HF<br>RoHS              |
| <b>Polyvinylchloride</b>  | PVC               | -10 °C to +70 °C                      | Black (BK),<br>Natural (NA) | UL 94 V0               | • Low moisture absorption<br>• Good chemical resistance to acids,<br>bases, salts, alcohol, oils  | RoHS                    |
| <b>Stainless Steel,<br/>Stainless Steel</b>   | SS304, SS316      | -80 °C to +538 °C                     | Natural (NA)                | non-burning            | • Corrosion resistant<br>• Antimagnetic<br>• Weather resistant<br>• Chemical resistance<br>• SS316 also resistant against seawater,<br>salt spray and anorganic acids | HF<br>LFH<br>RoHS       |
| <b>Thermoplastic<br/>Polyurethane</b>   | TPU               | -40 °C to +85 °C                      | Black (BK)                  | UL 94 HB               | • High elasticity<br>• Good chemical resistance to acids,<br>bases and oxidising agents   | HF<br>RoHS              |

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

\*\*Further colours available on request.

\*These details are only guide values. They should not be regarded as an exhaustive material specification and are no substitute for suitability tests. Please see our datasheets for further details.



Minimum Loop Tensile Strength  
for Cable Ties (newton)

HF = Halogenfree

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances