



# Cable Ties and Fixings

## Cable Ties With Fixing Elements

### 2-Piece Fixing Ties for Weld Studs, with Disc (for isolation material)

#### 2-Piece Fixing Ties for Weld Studs, with Disc

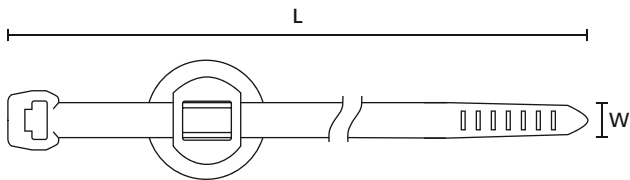
Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured

#### Features and benefits

- Pre-assembled with cable tie and weld stud mounting base
- Quick and easy installation
- Head rotates into perfect position for installation
- 'Soft-push' design for tool-free installation
- Mushroom-shaped SBH handles insulation or a sound-deadening blanket



Two Piece Fixing Tie T50RSBH5SD for weld studs.



Reference for dimensions only



Material specification  
please see page 22.

| PART DESCRIPTION                   | Drawing | Stud Ø | Width (W) | Length (L) | Bundle Ø max. | N   |
|------------------------------------|---------|--------|-----------|------------|---------------|-----|
| T50RSBH5-PA66HS-BK                 |         | 5.0    | 4.6       | 202.0      | 45.0          | 225 |
| T80ISBH5-PA66HS-BK                 |         | 5.0    | 5.0       | 300.0      | 80.0          | 355 |
| T50SOSSBH5-PA66HS-BK               |         | M5     | 4.6       | 150.0      | 32.0          | 225 |
| T50SOSSBH5E-PA66HS-BK              |         | 5.0    | 4.6       | 166.4      | 35.0          | 225 |
| T30RSBH5SD-PA66HS-BK               |         | 5.0    | 3.5       | 150.0      | 31.0          | 135 |
| T50RSBH5SD-PA66HS-BK               |         | 5.0    | 4.6       | 200.0      | 45.0          | 222 |
| T50ROSSBH5SD-PA66HS-BK             |         | 5.0    | 4.6       | 200.0      | 45.0          | 225 |
| T80ISBH5SD-PA66HS-BK               |         | 5.0    | 4.6       | 300.0      | 78.0          | 356 |
| T18RSBH5SD-PA66HS/PA66HIRHS-BK     |         | M5     | 2.5       | 100.0      | 22.0          | 80  |
| T50RSBH5SD-14-PA66HS-BK            |         | 5.0    | 4.6       | 200.0      | 45.0          | 222 |
| T50RSBH6SD-PA66HS-BK               |         | 6.0    | 4.6       | 200.0      | 45.0          | 225 |
| T50RSBHM5-6-PA66HS/PA66HIRHS-BK    |         | M5, M6 | 4.6       | 200.0      | 50.0          | 225 |
| T50RSBH5-10-PA66HS/PA66HIRHS-NA/BK |         | 5.0    | 4.6       | 200.0      | 45.0          | -   |

All dimensions in mm. Subject to technical changes.



### Material Specification Overview

| MATERIAL   | Material Shortcut | Operating Temperature                                      | Colour*                     | Flammability |
|--|-------------------|--|-----------------------------|--------------|
| Aluminium alloy  | AL                | -40 °C to +180 °C  | Natural (NA)                |              |
| Chloroprene Rubber   | CR                | -20 °C to +80 °C   | Black (BK)                  |              |
| Ethylene Tetrafluoroethylene (Tefzel®)   | E/TFE             | -80 °C to +170 °C  | Blue (BU)                   | UL 94 V0     |
| Polyacetal   | POM               | -40 °C to +90 °C,<br>(+110 °C, 500 h)                      | Natural (NA)                | UL 94 HB     |
| Polyamide 11   | PA11              | -40 °C to +85 °C,<br>(+105 °C, 500 h)                      | Black (BK)                  | UL 94 HB     |
| Polyamide 11,<br>UV-resistant  | PA11W             | -40 °C to +105 °C  | Black (BK)                  | UL 94 HB     |
| Polyamide 12   | PA12              | -40 °C to +85 °C,<br>(+105 °C, 500 h)                      | Black (BK)                  | UL 94 HB     |
| Polyamide 4.6  | PA46              | -40 °C to +130 °C,<br>(+150 °C, 5000 h;<br>+195 °C, 500 h) | Natural (NA),<br>Grey (GY)  | UL 94 V2     |
| Polyamide 6  | PA6               | -40 °C to +80 °C   | Black (BK)                  | UL 94 V2     |
| Polyamide 6,<br>glass-fibre reinforced   | PA6GF30           | -40 °C to +100 °C  | Black (BK)                  | UL 94 HB     |
| Polyamide 6,<br>high impact modified   | PA6HIR            | -40 °C to +80 °C   | Black (BK)                  | UL 94 HB     |
| Polyamide 6,<br>high impact modified, heat stabilised  | PA6HIRHS          | -80 °C to +110 °C  | Black (BK)                  | UL 94 HB     |
| Polyamide 6.6  | PA66              | -40 °C to +85 °C,<br>(+105 °C, 500 h)                      | Black (BK),<br>Natural (NA) | UL 94 V2     |
| Polyamide 6.6,<br>glass-fibre reinforced   | PA66GF13          | -40 °C to +105 °C  | Black (BK)                  | UL 94 HB     |
| Polyamide 6.6,<br>glass-fibre reinforced   | PA66GF15          | -40 °C to +105 °C  | Black (BK)                  | UL 94 HB     |
| Polyamide 6.6,<br>heat and UV stabilised   | PA66HSUV          | -40 °C to +105 °C  | Black (BK),<br>Natural (NA) | UL 94 V2     |
| Polyamide 6.6,<br>heat and UV stabilised   | PA66HSW           | -40 °C to +105 °C  | Black (BK)                  | UL 94 V2     |
| Polyamide 6.6,<br>heat stabilised  | PA66HS            | -40 °C to +105 °C  | Black (BK),<br>Natural (NA) | UL 94 V2     |
| Polyamide 6.6,<br>high impact modified   | PA66HIR           | -40 °C to +80 °C,<br>(+105 °C, 500 h)                      | Black (BK)                  | UL 94 HB     |
| Polyamide 6.6,<br>high impact modified, heat and UV stabilised   | PA66HIRHSUV       | -40 °C to +110 °C  | Black (BK)                  | UL 94 HB     |
| Polyamide 6.6,<br>high impact modified, heat and UV stabilised<br>(only for cable ties for Autotool System 3080) | PA66HIRHSUV       | -40 °C to +95 °C,<br>(+105 °C, 5000 h;<br>+145 °C, 500 h)  | Black (BK),<br>Natural (NA) | UL 94 HB     |
| Polyamide 6.6,<br>high impact modified, heat and UV stabilised   | PA66HIRHSW        | -40 °C to +110 °C  | Black (BK)                  | UL 94 HB     |
| Polyamide 6.6,<br>high impact modified, heat stabilised  | PA66HIRHS         | -40 °C to +105 °C  | Black (BK)                  | UL 94 HB     |
| Polyamide 6.6,<br>high impact modified, scan black   | PA66HIR(S)        | -40 °C to +80 °C,<br>(+105 °C, 500 h)                      | Black (BK)                  | UL 94 HB     |

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.

 = Minimum Loop Tensile Strength for Cable Ties (Newton)

| MATERIAL  | Material Shortcut | Operating Temperature                 | Colour*                     | Flammability           |
|---|-------------------|---------------------------------------|-----------------------------|------------------------|
| <b>Polyamide 6.6</b> ,<br>UV resistant  | PA66W             | -40 °C to +85 °C,<br>(+105 °C, 500 h) | Black (BK)                  | UL 94 V2               |
| <b>Polyamide 6.6</b> ,<br>UV-stabilised   | PA66UV            | -40 °C to +85 °C                      | Black (BK),<br>Natural (NA) | UL 94 V2               |
| <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               |
| <b>Polyamide 6.6</b> ,<br>with metal particles  | PA66MP+           | -40 °C to +85 °C                      | Blue (BU)                   | not flame<br>retardant |
| <b>Polyamide 6.6 V0</b>   | PA66V0            | -40 °C to +85 °C                      | White (WH)                  | UL 94 V0               |
| <b>Polyaryletherketone</b>  | PAEK              | -55 °C to +200 °C                     | Beige (BGE)                 | UL 94 V0               |
| <b>Polyester</b>  | SP                | -50 °C to +150 °C                     | Black (BK)                  |                        |
| <b>Polyetheretherketone</b>   | PEEK              | -55 °C to +240 °C                     | Beige (BGE)                 | UL 94 V0               |
| <b>Polyethylene</b>   | PE                | -40 °C to +50 °C                      | Black (BK),<br>Grey (GY)    | UL 94 HB               |
| <b>Polyolefin</b>   | PO                | -40 °C to +90 °C                      | Black (BK)                  | UL 94 V0               |
| <b>Polyphenylene Sulfide</b>  | PPS               | -40 °C to +150 °C                     | Black (BK),<br>Grey (GY)    | UL 94 V0               |
| <b>Polypropylene,<br/>Ethylene Propylene Diene Terpolymer rubber</b><br>free of Nitrosamine | PP, EPDM          | -20 °C to +95 °C                      | Black (BK)                  | UL 94 HB               |
| <b>Polypropylene 20% Talkum</b>   | PPT20             | -40 °C to +65 °C                      | Black (BK)                  | UL 94 HB               |
| <b>Polypropylene</b><br>with metal particles  | PPMP              | -40 °C to +115 °C                     | Blue (BU)                   | UL 94 HB               |
| <b>Polypropylene</b><br>with metal particles  | PPMP+             | -40 °C to +85 °C                      | Blue (BU)                   | not flame<br>retardant |
| <b>Polyvinylidene Fluoride</b>  | PVDFX             | -50 °C to +150 °C                     | Natural (NA)                | UL 94 V0               |
| <b>Polyvinylchloride</b>  | PVC               | -10 °C to +70 °C                      | Black (BK),<br>Natural (NA) | UL 94 V0               |
| <b>Stainless Steel</b>  | SS304, SS316      | -80 °C to +538 °C                     | Natural (NA)                | non-burning            |
| <b>Thermoplastic Polyurethane</b>   | TPU               | -40 °C to +85 °C                      | Black (BK)                  | UL 94 HB               |

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= Minimum Loop Tensile Strength for Cable Ties (Newton)

## Tip: Material shortcut is part of our Part Description name

**Product series name** (indicating tie type, clip and harness routing variant)

**Material code**

**Colour code** (details on page 326)

T50ROSEC5A-PA66HS/PA66HIRHS-BK