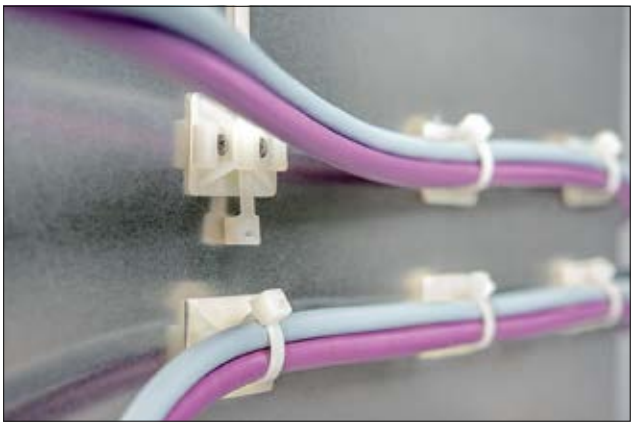
## Self Adhesive, Screw Fixing Cable Tie Mounts

These products are designed for simple, yet robust, installation in a wide variety of applications - particularly used in telecoms equipment, switchgear and control cabinets.

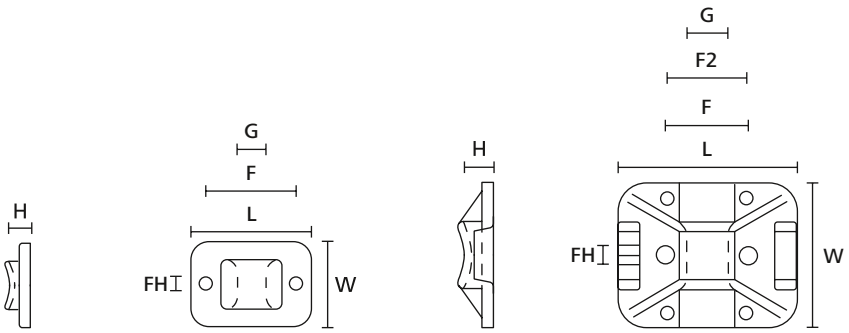
### Features and Benefits

- Screwable or self-adhesive versions
- Concave design to support larger diameter cables and bundles
- 2-way mounting base for safe guiding of cables and conduits
- Suitable for applications with minimal space
- Mounted before cable installation
- Usable with standard cable ties



*TY-Series mounts with rectangle design / screwable, self adhesive.*

### TY-Series Rectangle Design, screwable




*TY3G1, TY3G1S (side view)* *TY3G1, TY3G1S (plan view)* *TY8G1, TY8G1S (side view)* *TY8G1, TY8G1S (plan view)*

| TYPE | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Fixing Hole Centres (F) | Fixing Hole Centres (F2) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **TY3G1** | 14.0 | 20.0 | 3.7 | 2.2 | 15.0 | - | 4.0 | PA66 | Natural (NA) | 100 pcs. | 151-21319 |
| **TY8G1** | 25.0 | 32.0 | 5.5 | 3.2 | 15.0 | 14.0 | 8.0 | PA66 | Natural (NA) | 100 pcs. | 151-21819 |

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

### TY-Series Rectangle Design, self adhesive, screwable

| TYPE | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Fixing Hole Centres (F) | Fixing Hole Centres (F2) | Strap Width max. (G) | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TY3G1S** | 14.0 | 20.0 | 3.7 | 2.2 | 15.0 | - | 4.0 | PA66 | Natural (NA) | Acrylate | 100 pcs. | 151-11319 |
| | 14.0 | 20.0 | 3.7 | 2.2 | 15.0 | - | 4.0 | PA66W | Black (BK) | Acrylate | 100 pcs. | 151-11310 |
| **TY8G1S** | 25.0 | 32.0 | 5.5 | 3.2 | 15.0 | 14.0 | 8.0 | PA66 | Natural (NA) | Acrylate | 100 pcs. | 151-11819 |
| | 25.0 | 32.0 | 5.5 | 3.2 | 15.0 | 14.0 | 8.0 | PA66W | Black (BK) | Acrylate | 100 pcs. | 151-11810 |

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

**For more information on the types of adhesive please see page 129.**

Date of issue: October 2015

## Material Specification Overview

| MATERIAL | Material Shortcut | Operating Temperature | Colour** | Flammability | Material Properties* | Material Specifications |
|---|---|---|---|---|---|---|
| **Aluminium-alloy** | AL | -40 °C to +180 °C | Natural (NA) | | • Corrosion resistant<br>• Antimagnetic | RoHS |
| **Chloroprene** | CR | -20 °C to +80 °C | Black (BK) | | • Weather-resistant<br>• High yield strength | RoHS |
| **Ethylene Tetrafluoroethylene** | E/TFE | -80 °C to +170 °C | Blue (BU) | UL94 V0 | • Resistance to radioactivity<br>• UV-resistant, not moisture sensitive<br>• Good chemical resistance to: acids, bases, oxidizing agents | RoHS |
| **Polyacetal** | POM | -40 °C to +90 °C, (+110 °C, 500 h) | Natural (NA) | UL94 HB | • Limited brittleness sensitivity<br>• Flexible at low temperature<br>• Not moisture sensitive<br>• Robust on impacts | RoHS |
| **Polyamide 11** | PA11 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL94 HB | • Bio-plastic, derived from vegetable oil<br>• Strong impact resistance at low temperature<br>• Very low moisture absorption<br>• Weather-resistant<br>• Good chemical resistance | HF<br>RoHS |
| **Polyamide 12** | PA12 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL94 HB | • Good chemical resistance to: acids, bases, oxidizing agents<br>• UV-resistant | HF<br>RoHS |
| **Polyamide 4.6** | PA46 | -40 °C to +150 °C (5000 h), +195 °C (500 h) | Natural (NA), Grey (GY) | UL94 V2 | • Resistance to high temperatures<br>• Very moisture sensitive<br>• Low smoke sensitive | HF<br>LFH<br>RoHS |
| **Polyamide 6** | PA6 | -40 °C to +80 °C | Black (BK) | UL94 V2 | • High yield strength | RoHS |
| **Polyamide 6,** high impact modified | PA6HIR | -40 °C to +80 °C | Black (BK) | UL94 HB | • Limited brittleness sensitivity<br>• Higher flexibility at low temperature | RoHS |
| **Polyamide 6.6** | PA66 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK), Natural (NA) | UL94 V2 | • High yield strength | HF<br>RoHS |
| **Polyamide 6.6,** glass-fibre reinforced | PA66GF13, PA66GF15 | -40 °C to +105 °C | Black (BK) | UL94 HB | • Good resistance to: lubricants, vehicle fuel, salt water and many solvents | HF<br>RoHS |
| **Polyamide 6.6,** heat and UV stabilised | PA66HSW | -40 °C to +105 °C | Black (BK) | UL94 V2 | • High yield strength<br>• Modified elevated max. temperature<br>• UV-resistant | HF<br>RoHS |
| **Polyamide 6.6,** heat stabilised | PA66HS | -40 °C to +105 °C | Black (BK), Natural (NA) | UL94 V2 | • High yield strength<br>• Modified elevated max. temperature | HF<br>RoHS |
| **Polyamide 6.6,** high impact modified | PA66HIR | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) | UL94 HB | • Limited brittleness sensitivity<br>• Higher flexibility at low temperature | RoHS |
| **Polyamide 6.6,** high impact modified, heat and UV stabilised | PA66HIRHSW | -40 °C to +110 °C | Black (BK) | UL94 HB | • Limited brittleness sensitivity<br>• Higher flexibility at low temperature<br>• Modified elevated max. temperature<br>• High yield strength, UV-resistant | HF<br>RoHS |
| **Polyamide 6.6,** high impact modified, heat stabilised | PA66HIRHS | -40 °C to +105 °C | Black (BK) | UL94 HB | • Limited brittleness sensitivity<br>• Higher flexibility at low temperature<br>• Modified elevated max. temperature | RoHS |
| **Polyamide 6.6,** high impact modified, scan black | PA66HIR(S) | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) | UL94 HB | • Limited brittleness sensitivity<br>• Higher flexibility at low temperature | HF<br>RoHS |
| **Polyamide 6.6,** UV-resistant | PA66W | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL94 V2 | • High yield strength<br>• UV-resistant | 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 additon to Tefzel® from DuPont HellermannTyton is also using equivalent E/TFE raw material from other suppliers.

**More colours on request.

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

**HF = Halogenfree**
**LFH = Limited Fire Hazard**
**RoHS = Restriction of Hazardous Substances**

N = **Minimum Loop Tensile Strength for Cable Ties (Newton)**

Date of issue: October 2015

| MATERIAL | Material Shortcut | Operating Temperature | Colour** | Flammability | Material Properties* | Material Specifications |
|---|---|---|---|---|---|---|
| **Polyamide 6.6,** with metal particles | PA66MP | -40 °C to +85 °C, (+105 °C, 500 h) | Blue (BU) | UL94 HB | • High yield strength<br>• Metal and X-Ray detectable | HF<br>RoHS |
| **Polyamide 6.6 V0** | PA66V0 | -40 °C to +85 °C | White (WH) | UL94 V0 | • High yield strength<br>• Low smoke emission | HF<br>LFH<br>RoHS |
| **Polyamide 6.6 V0,** High Oxygen Index | PA66V0-HOI | -40 °C to +85 °C, (+105 °C, 500 h) | White (WH) | UL94 V0 | • High yield strength<br>• Low smoke emissions | HF<br>LFH<br>RoHS |
| **Polyester** | SP | -50 °C to +150 °C | Black (BK) | Halogen free | • UV-resistant<br>• Good chemical resistance to: most acids, alkalis and oils | HF<br>LFH<br>RoHS |
| **Polyetheretherketone** | PEEK | -55 °C to +240 °C | Beige (BGE) | UL94 V0 | • Resistance to radioactivity<br>• Not moisture sensitive<br>• Good chemical resistance to: acids, bases, oxidizing agents | HF<br>LFH<br>RoHS |
| **Polyethylene** | PE | -40 °C to +50 °C | Black (BK), Grey (GY) | UL94 HB | • Low moisture absorption<br>• Good chemical resistance to: most acids, alcohol and oils | HF<br>RoHS |
| **Polyolefin** | PO | -40 °C to +90 °C | Black (BK) | UL94 V0 | • Low smoke emissions | HF<br>LFH<br>RoHS |
| **Polypropylene** | PP | -40 °C to +115 °C | Black (BK), Natural (NA) | UL94 HB | • Floats in water<br>• Moderate yield strength<br>• Good chemical resistance to: organic acids | HF<br>RoHS |
| **Polypropylene, Ethylene-Propylene-Dien-Terpolymere-rubber** free of Nitrosamine | PP, EPDM | -20 °C to +95 °C | Black (BK) | UL94 HB | • Good resistance to high temperatures<br>• Good chemical and abrasion resistance | HF<br>RoHS |
| **Polypropylene** with metal particles | PPMP | -40 °C to +115 °C | Blue (BU) | UL94 HB | • Floats in certain liquids<br>• Metal and X-Ray detectable<br>• Heat resistant<br>• Moderate yield strength<br>• Good chemical resistance | RoHS |
| **Polyvinylchloride** | PVC | -10 °C to +70 °C | Black (BK), Natural (NA) | UL94 V0 | • Low moisture absorption<br>• Good chemical resistance to: acids, ethanol and oil | RoHS |
| **Stainless Steel, Stainless Steel** | SS304, SS316 | -80 °C to +538 °C | Natural (NA) | Non burning | • Corrosion resistant<br>• Antimagnetic<br>• Weather resistant<br>• Outstanding chemical resistance | HF<br>LFH<br>RoHS |
| **Thermoplastic Polyurethane** | TPU | -40 °C to +85 °C | Black (BK) | UL94 HB | • High elasticity<br>• Good chemical resistance to: acids, bases and oxidizing agents | HF<br>RoHS |

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**N = Minimum Loop Tensile Strength for Cable Ties (Newton)**

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## Information and installation instructions for self-adhesive mounting bases

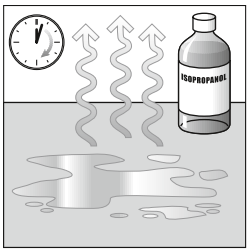
HellermannTyton uses different types of adhesives for self-adhesive bases: acrylate and synthetic rubber. These differ in the operating temperature range and the 'pull off' force of the adhesive. Synthetic rubber has an excellent initial grip, allowing for almost immediate use. Acrylate adhesive has less initial grip, so there is a need to wait for a few hours before use, but has a higher 'pull off' force than synthetic rubber. This enables a permanent fixing lasting months or even years. To use these adhesives the surface must be dry, and free of dust, oil, oxides, parting agents and other impurities. For this the use of isopropane / water (50/50) is recommended. After cleaning allow the surface to dry completely. Peel off the protective backing on the self-adhesive base, ensuring the adhesive is not touched. Apply the part to the surface and press down firmly for several seconds.

| ADHESIVE | | Adhesive Operating Temperature |
|---|---|---|
| **Synthetic rubber with base of polyethylene foam** | Synthetic rubber T50 | -20 °C to +50 °C |
| | Synthetic rubber T60 | -40 °C to +60 °C |
| **Acrylate with base of polyurethane foam** | Acrylate | to +105 °C |
| **Acrylate with base of acrylic foam** | mod. Acrylate | -40 °C to +90 °C |

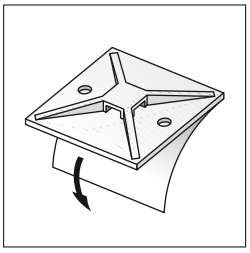
**We will be happy to send you on request an up-to-date technical datasheet for whichever adhesive you are using.**

## Instructions for use

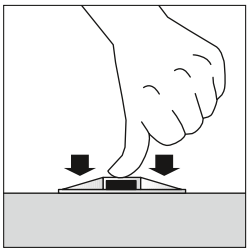

**1.** The surface must be dry, free from dust, oil, oxides, parting agents and other impurities. The surface to be glued should be cleaned using a clean cloth and isopropanol / water (50/50). When using other appropriate cleaning agents, ensure that they do not attack the surface nor leave any residues.



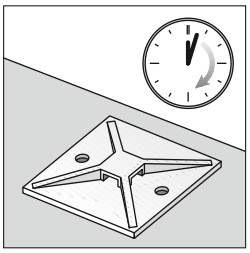

**2.** After cleaning allow the surface to air-dry completely.



**3.** Peel off protective backing and ensure the adhesive area is not touched.



**4.** Press down firmly on the base with the thumbs for several seconds.



**5.** Depending on the type of adhesive, wait for several minutes (synthetic rubber) or hours (acrylate) so that the adhesive can bond completely with the surface.

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