



# Cable Ties and Fixings

## Cable Tie Mounts

### Screw Fixing Mounts

#### MB-Series Curved Design, screwable

These cable tie mounts are very small in their overall size. They are designed for simple yet robust installation particularly in areas with high vibrations and/or limited space. They are a common fixing method for telecoms equipment, switchgear and control cabinets.

#### Features and benefits

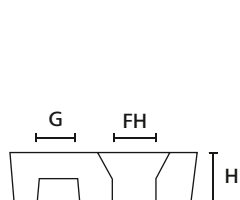
- Small overall size for areas with limited mounting space
- Simple to install with a screw, bolt or rivet
- Excellent security, particularly in areas of high vibration
- Single hole fixing with two-way entry for cable tie



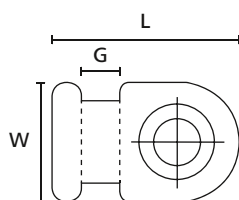
**Material specification**  
please see page 22.



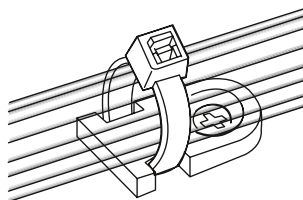
TY- (l) and MB-Series (r) with curved design, screwable.



MB1, MB2 Mounts (side view)



MB1, MB2 Mounts (plan view)



MB1, MB2 Mounts in application

| PART DESCRIPTION | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) |
|------------------|-----------|------------|------------|-------------|----------------------|
| MB1-PA66-NA      | 8.0       | 12.5       | 3.5        | 2.9         | 2.6                  |
| MB2-PA66-BK      | 12.5      | 20.5       | 3.3        | 5.0         | 5.0                  |
| MB2-PA66-NA      | 12.5      | 20.5       | 3.3        | 5.0         | 5.0                  |

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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\*Further colours available on request.



= 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