

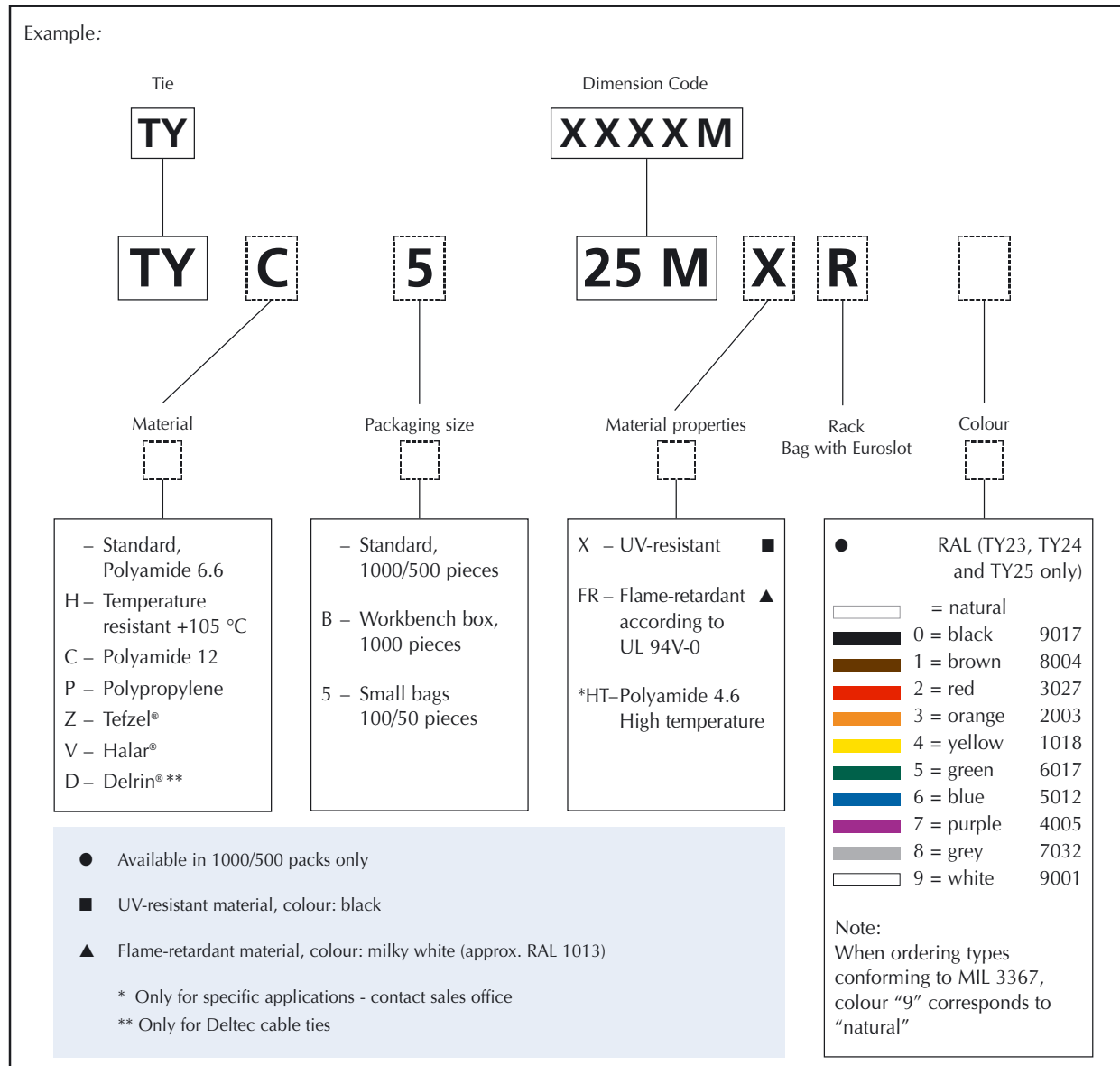


Ty-Rap[®]

Premium cable ties with steel locking barb
 Product reference structure for
 standard ties



To the standard Product Reference, you can add special order codes for: material, packaging size, material properties and colours.



Tefzel[®] and Delrin[®] are registered trademark of DuPont de Nemours
 Halar[®] is a registered trademark of Solvay Solexis

Ty-Rap®

Premium cable ties with steel locking barb Standard ties

Product overview

The main characteristics of the Ty-Rap® cable ties are shown on pages 8 and 9.

To cover the most demanding applications, the standard Ty-Rap® cable ties are available in:

- Several lengths
- 6 typical widths, with a tensile strength up to 780N
- 6 different materials, with a total of 9 different grades (see pages 102 to 109 for material specifications & selection)
- Several colours and packaging sizes (see page 10)



Approvals

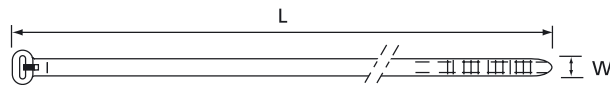


E49405



Technical Information

| | |
|---------------------|-----------------------------|
| Material | Polyamide 6.6 |
| Temperature range | -40°C to +85°C |
| Colour | Natural |
| Flammability rating | UL 94 V-2 |
| Other properties | Halogen free, Silicone free |



Ordering Information: Standard Polyamide 6.6 cable ties

| PRODUCT REF. | MIL SPEC. | LENGTH | WIDTH | THICKNESS | BUNDLE DIAMETER | MINIMUM TENSILE STRENGTH | QUANTITY | TOOLING |
|----------------|-----------|-----------|-----------|-----------|-----------------|--------------------------|----------|----------------|
| | | L [mm] | W [mm] | | | | | |
| TY23M / TYB23M | MS-3367-4 | 92 | 2.4 | 1.0 | 2 - 16 | 80 | 1000 | |
| TYB2315M | - | 178 | 2.4 | 1.0 | 2 - 32 | 80 | 1000 | |
| TY232M | - | 203 | 2.4 | 1.0 | 2 - 50 | 80 | 1000 | ERG299 |
| TY234M | - | 356 | 2.4 | 1.0 | 2 - 102 | 80 | 1000 | WT193A |
| TY24M / TYB24M | MS-3367-5 | 140 | 3.6 | 1.1 | 2 - 29 | 180 | 1000 | TR227 |
| TY242M | - | 208 | 3.6 | 1.1 | 2 - 50 | 180 | 1000 | |
| TY26M | - | 284 | 3.6 | 1.1 | 2 - 76 | 130 | 1000 | |
| TY244M | - | 368 | 3.6 | 1.1 | 2 - 103 | 130 | 1000 | |
| TY25M / TYB25M | MS-3367-1 | 186 | 4.8 | 1.1 | 3.5 - 45 | 220 | 1000 | ERG299, ERG297 |
| TY253M | MS-3367-7 | 290 | 4.8 | 1.1 | 3.5 - 78 | 220 | 1000 | WT193A |
| TY28M | MS-3367-2 | 360 | 4.8 | 1.1 | 3.5 - 102 | 220 | 1000 | TR227 |
| TY271M | - | 150 | 7.6 | 1.5 | 6 - 31 | 540 | 500 | |
| TY272M | - | 222 | 7.6 | 1.6 | 6 - 50 | 540 | 500 | |
| TY27M | MS-3367-3 | 340 | 7.0 | 1.6 | 6 - 90 | 540 | 500 | L-500-EU |
| TY275M | - | 457 | 7.0 | 1.6 | 6 - 127 | 540 | 500 | ERG297 |
| TY277M | - | 617 | 7.0 | 1.6 | 6 - 177 | 540 | 500 | |
| TY29M | MS-3367-6 | 771 | 7.6 | 1.6 | 6 - 229 | 540 | 500 | |
| TY53510M | - | 889 | 8.1 | 1.7 | to 254 | 780 | 50 | WT3D |
| TY54513M | - | 1143 | 8.1 | 1.7 | to 330 | 780 | 50 | L-500-EU |

Available in other colours: see page 10 for description of colours and packaging sizes

Description of materials and properties: see pages 102 to 109

For tooling specifications, see pages 92 to 99



Ty-Rap[®]

Premium cable ties with steel locking barb
Standard ties



Approvals

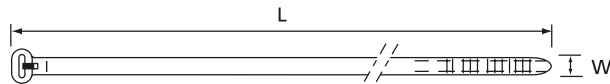


E49405



Technical Information

| | |
|---------------------|---|
| Material | Polyamide 6.6 |
| Temperature range | -40°C to +85°C |
| Colour | Black |
| Flammability rating | UL 94 V-2 |
| Other properties | UV-resistant, Halogen free, Silicone free |



Ordering Information: Polyamide 6.6 UV-stabilised cable ties

| PRODUCT REF. | MIL SPEC. | LENGTH | WIDTH | THICKNESS | BUNDLE DIAMETER | MINIMUM TENSILE | QUANTITY | TOOLING |
|------------------|-----------|-----------|-----------|-----------|-----------------|-----------------|----------|--------------------|
| | | L [mm] | W [mm] | | | | | |
| TY23MX / TYB23MX | MS-3367-4 | 92 | 2.4 | 1.0 | 2 - 16 | 80 | 1000 | |
| TYB2315MX | - | 178 | 2.4 | 1.0 | 2 - 32 | 80 | 1000 | |
| TY232MX | - | 203 | 2.4 | 1.0 | 2 - 50 | 80 | 1000 | |
| TY234MX | - | 356 | 2.4 | 1.0 | 2 - 102 | 80 | 1000 | ERG299 WT193A |
| TY24MX / TYB24MX | MS-3367-5 | 140 | 3.6 | 1.1 | 2 - 29 | 130 | 1000 | TR227 |
| TY242MX | - | 208 | 3.6 | 1.1 | 2 - 50 | 130 | 1000 | |
| TY26MX | - | 284 | 3.6 | 1.1 | 2 - 76 | 130 | 1000 | |
| TY244MX | - | 368 | 3.6 | 1.1 | 2 - 103 | 130 | 1000 | |
| TY25MX / TYB25MX | MS-3367-1 | 186 | 4.8 | 1.1 | 3.5 - 45 | 220 | 1000 | ERG297 |
| TY253MX | MS-3367-7 | 290 | 4.8 | 1.1 | 3.5 - 78 | 220 | 1000 | ERG299 |
| TY28MX | MS-3367-2 | 360 | 4.8 | 1.1 | 3.5 - 102 | 220 | 1000 | WT193A, TR227 |
| TY271MX | - | 150 | 7.6 | 1.5 | 6 - 31 | 540 | 500 | |
| TY272MX | - | 222 | 7.6 | 1.6 | 6 - 50 | 540 | 500 | |
| TY27MX | MS-3367-3 | 340 | 7.0 | 1.6 | 6 - 90 | 540 | 500 | L-500-EU ERG297 |
| TY275MX | - | 457 | 7.0 | 1.6 | 6 - 127 | 540 | 500 | |
| TY277MX | - | 617 | 7.0 | 1.6 | 6 - 177 | 540 | 500 | |
| TY29MX | MS-3367-6 | 771 | 7.6 | 1.6 | 6 - 229 | 540 | 500 | |
| TY53510MX | - | 889 | 8.1 | 1.7 | to 254 | 780 | 50 | WT3D |
| TY54513MX | - | 1143 | 8.1 | 1.7 | to 330 | 780 | 50 | L-500-EU |

Description of packing sizes: see page 10

Description of materials and properties: see pages 102 to 109

For tooling specifications, see pages 92 to 99