

## BUNDLING AND SECURING SOLUTIONS

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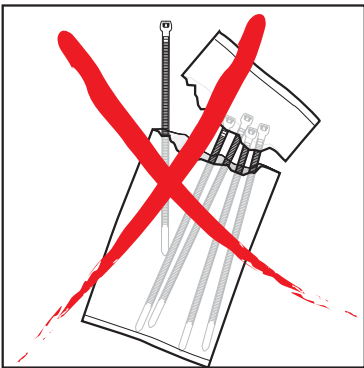


## Optimum storage conditions for cable ties made of polyamide (PA)

**HellermannTyton** cable ties and mounts are manufactured from high-quality polyamide (PA). This material is mainly processed using injection molding, but can also be extruded.

Polyamide is a hygroscopic material. This means that the material absorbs and loses moisture. For optimum handling of cable ties, it is important that the material is in a condition of equilibrium with a water content of approximately 2.5%.

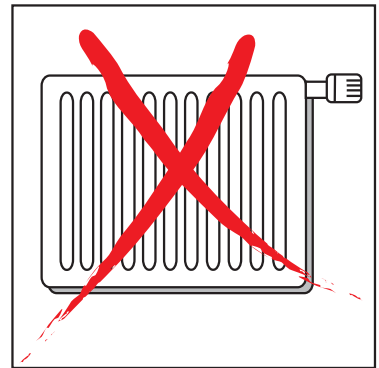
The packaging used by HellermannTyton ensures that the water content in the material remains constant. Therefore, it is important to store the products in their original packaging to preserve the quality of the ties and mounts.



Once opened you should use the ties as quickly as possible.

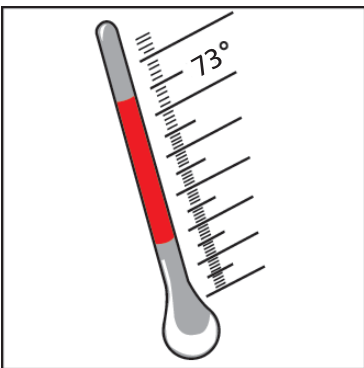


Do not expose the product to direct sunlight

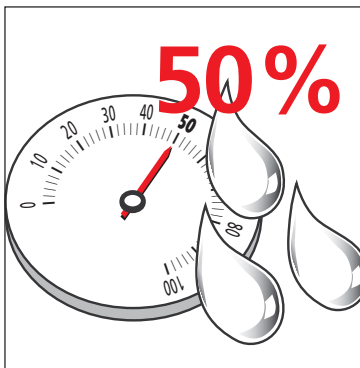


Store the product away from direct sources of heat

## Ideal storage conditions:



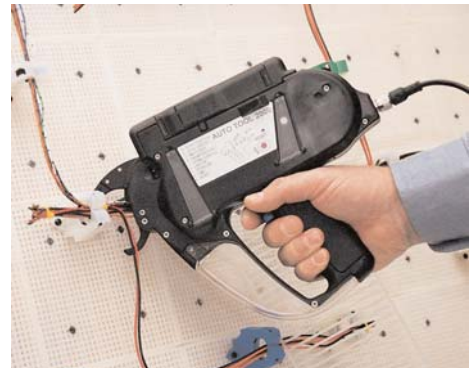
73 °F



50% relative humidity

## Cable Ties and Tool Systems

**HellermannTyton's** cable tie and tool systems are designed to work together to provide optimal consistency, quality, safety, and overall performance. Wrapping and hand tensioning a high quality cable tie is just the first step in assuring a high quality application. It is necessary to use one of HellermannTyton's cable tie tools to ensure that the cable tie is applied with just the right amount of tension and with a flush cut that won't leave a sharp edge. HellermannTyton leads the world in the development and manufacture of ergonomically designed, high performing cable tie tools in mechanical, power assisted, and automatic versions. With HellermannTyton's automatic cable tie systems, cable ties are applied, tensioned and cut-off to the correct tension in approximately one second. HellermannTyton's mechanical and power assisted tools expertly tension and cut-off hand applied cable ties.



*AT2000 Automatic Cable Tie Tool — For automatic cable tie tool systems, see page 72.*

## Consistency and Quality

By utilizing HellermannTyton's cable ties and tools together, a consistent tension and cut-off is achieved. When using non-approved methods of cutting off a cable tie, wire and cable can be crushed, the strap of the cable tie may be cut-off too deeply causing the tie to disengage, or the cable tie can be applied too loosely which can affect the bundling and securing properties of the application.

## Safety

A flush cut is another benefit of using HellermannTyton's cable tie tools and ties as a system. Worker safety, and resulting reduction of workers' compensation claims, is an increasing priority of most companies. HellermannTyton's cable tie tools are ergonomically designed to reduce worker effort and causes of repetitive motion injuries. When using HellermannTyton's tools and cable ties, a flush cut is achieved, creating a smooth edge. When non-approved methods of applying a cable tie are used, a sharp edge is almost always left at the end of the tie - causing injury to workers and end-customers. All of HellermannTyton's cable tie tool systems offer adjustable tension and cut-off levels to assure optimal tensions and flush cut-offs.

## Overall Performance

Used together, HellermannTyton's cable ties and ergonomically designed tool systems assure a high quality installation which prevents damage to wire and cable and potential rework due to inappropriately applied cable ties - all lowering installed costs while improving performance.



*MK7P - Power Assisted Cable Tie Tool — For power assisted cable tie tools, see page 69.*



*MK7 and MK9 Mechanical Cable Tie Tools — For mechanical cable tie tools, see page 66.*

## Materials

**HellermannTyton** has worked very closely with its material suppliers to develop resins that are specifically formulated for fastener and cable tie production. HellermannTyton has spearheaded material advancements in component manufacturing to assure its customers of the finest quality products. Environmental factors can have an adverse effect on fasteners. It is very important to use the most suitable material for each application. HellermannTyton fasteners are available in a variety of materials ranging from polyamides (nylon) to fluoropolymers.

### Polyamide 6.6 – General Purpose



General purpose polyamide 6.6 features light weight, high strength and a wide temperature range. Polyamide 6.6 is hygroscopic, and therefore, absorbs or releases moisture depending on its environment. Thus, the moisture level of the material will affect tensile strength, stiffness and elongation of the product.

### Polyamide 6.6 – Heat Stabilized



With similar properties and benefits as polyamide 6.6, products manufactured with heat stabilized polyamide 6.6 material have a chemical stabilizer added for higher continuous temperature applications.

### Polyamide 6.6 – UV Resistant



Chemical inhibitors are used to give polyamide 6.6 material added properties to fight against premature aging of products due to the effects of ultraviolet rays.

### Polyamide 6.6 – UV Resistant (2% Carbon for Military Specification)



The physical properties of this material include carbon, which acts as a UV stabilizer, prolonging the life of the product under ultraviolet conditions. It also allows HellermannTyton's black cable ties to meet the particular military specification for cable ties.

### Polyamide 6.6 – V0 Flame Retardant



This material meets UL 94V-0 flammability requirements. Flame retardant additives generally reduce tensile strength when compared to general purpose polyamide 6.6, but this resin has been formulated to minimize such effects.

### Polyamide 6.6 – Impact Modified, Heat Stabilized and UV Resistant



Impact modified polyamide 6.6 offers the increased flexibility, heat resistance and UV resistance of the high impact material with the added feature of greater resistance to vibration, heat and sunlight for mobile applications.

### Polyamide 6.6 – High Impact



Impact modifiers are added to increase flexibility. High impact polyamide 6.6 has stable tensile strength due to its reduced influence from moisture. It is excellent for high vibration applications, as within the aircraft and automobile industries and performs better than polyamide 6.6 against ultraviolet rays. Good for outdoor use.

### Polyamide 4.6



Polyamide 4.6, like polyamide 6.6, offers light weight and high strength benefits, but offers an even wider temperature range. This material can be used at a higher continuous operating temperature than polyamide 6.6 - heat stabilized. In addition to having excellent heat resistance, polyamide 4.6 has low creep effects and retention of stiffness at elevated temperatures.

### Polypropylene



Polypropylene is used in environments where chemical effects on polyamide are a concern. It is not affected by inorganic acids (hydrochloric), polyhydric alcohols (ethyleneglycol), neutral salts (sodium chloride) and basic salts (sodium bicarbonate). Polypropylene also resists a number of other chemicals with good results, although it has lower tensile strength than polyamide 6.6 (about half). Polypropylene has good UV resistance.

### Polyamide 12



Although not as strong as polyamide 6.6 (about half), polyamide 12 is extremely flexible, absorbs little moisture, ages better and has better chemical and UV resistance than general purpose polyamide 6.6. Polyamide 12 is good for applications where products are exposed to metal oxides.

### Ethylentetrafluorethylene - Tefzel



Although about two-thirds the strength of polyamide 6.6, Tefzel is resistant to a wide range of chemicals, such as concentrated hydrofluoric and sulfuric acids. It is also a low water absorbing material, therefore, is not adversely affected by water. Tefzel is radiation resistant up to 200 megarads and meets the fire and smoke requirements of IEEE 383. Tefzel also withstands high temperatures and ultraviolet light exposure. Products made from Tefzel material also have non-outgassing properties for zero gravity applications.

### Polyacetal



Polyacetal has excellent dielectric properties, UV and chemical resistance, and a UL94-HB flame rating. It has been tested for excellent weatherability against moisture, sunlight, and other environmental conditions.

### Halar



Halar is similar to Tefzel in performance and benefits. Halar is recognized for its low smoke density attribute when burned. This makes products made out of Halar more desirable for use in areas where smoke generation is a concern, as when bundling wire and cable in air handling spaces. \* Halar is a registered trademark of Solvay S.A.

For more information on RoHS/WEEE Compliance, go online to: <http://www.hellermann.tyton.com/rohs.asp>

## Material Specifications

| MATERIAL                                                                   | CONTINUOUS OPERATING TEMPERATURE |                 | TENSILE STRENGTH AT 73°F DRY AS MOLDED ASTM D-638 (PSI) | UL FLAME RATING | OXYGEN INDEX % | GAMMA RADIATION RESISTANCE | UV RESISTANCE | MILITARY, FEDERAL, ASTM AND FDA SPECIFICATIONS |
|----------------------------------------------------------------------------|----------------------------------|-----------------|---------------------------------------------------------|-----------------|----------------|----------------------------|---------------|------------------------------------------------|
|                                                                            | MAX.                             | MIN.            |                                                         |                 |                |                            |               |                                                |
| <b>Polyamide 6.6- General Purpose (PA66)</b>                               | 185°F<br>85°C                    | -40°F<br>-40°C  | 12,000                                                  | 94V-2           | 28             | 1 x 10 <sup>5</sup> Rads   | Poor          | ASTM D-4066PA0111<br>FDA CFR177.1500           |
| <b>Polyamide 6.6- Heat Stabilized (PA66HS)</b>                             | 221°F<br>105°C                   | -40°F<br>-40°C  | 12,000                                                  | 94V-2           | 26             | 1 x 10 <sup>5</sup> Rads   | Poor          | ASTM D-4066PA0121                              |
| <b>Polyamide 6.6- UV resistant (PA66UV)</b>                                | 185°F<br>85°C                    | -40°F<br>-40°C  | 12,000                                                  | 94V-2           | 26             | 1 x 10 <sup>5</sup> Rads   | Good          | -                                              |
| <b>Polyamide 6.6-2% Carbon UV resistant</b>                                | 185°F<br>85°C                    | -40°F<br>-40°C  | 12,000                                                  | 94V-2           | 26             | 1 x 10 <sup>5</sup> Rads   | Good          | ASTM D-4066PA0181<br>MS3367/8                  |
| <b>Polyamide 6.6-Flame Retardant (PA66VO)</b>                              | 185°F<br>85°C                    | -40°F<br>-40°C  | 10,800                                                  | 94V-0           | 34             | 1 x 10 <sup>5</sup> Rads   | Poor          | ASTM D-4066PA0110                              |
| <b>Polyamide 6.6-Impact Mod. Heat Stabilized, UV Resistant (PA66HIRHS)</b> | 230°F<br>110°C                   | -40°F<br>-40°C  | 9,500                                                   | 94-HB           | N/A            | N/A                        | Very Good     | ASTM D-4066PA0161                              |
| <b>Polyamide 6.6- High Impact (PA66HIR)</b>                                | 230°F<br>110°C                   | -40°F<br>-40°C  | 8,800                                                   | 94-HB           | 19             | 1 x 10 <sup>5</sup> Rads   | Good          | ASTM D-4066PA0151                              |
| <b>Polyamide 4.6- Heat Stabilized (PA46)</b>                               | 275°F<br>135°C                   | -40°F<br>-40°C  | 14,400                                                  | 94V-2           | 27             | 9 x 10 <sup>6</sup> Rads   | Poor          | ASTM D-4066PA0922                              |
| <b>Polypropylene- Chemical Resistant (PP)</b>                              | 239°F<br>115°C                   | -40°F<br>-40°C  | 3,400                                                   | 94-HB           | N/A            | 1 x 10 <sup>5</sup> Rads   | Good          | ASTM D-4101PP0327                              |
| <b>Polyamide 12- UV resistant (UV)</b>                                     | 176°F<br>80°C                    | -40°F<br>-40°C  | 5,800                                                   | 94-HB           | N/A            | 1 x 10 <sup>5</sup> Rads   | Good          | ASTM D-4066PA411                               |
| <b>Ethlenterafluorineethylene Tefzel® (E/TFE)</b>                          | 302°F<br>150°C                   | -112°F<br>-80°C | 5,800                                                   | 94V-0           | 30             | 2 x 10 <sup>8</sup> Rads   | Excellent     | UL2043<br>ASTM D-3159 Type 1<br>Grade 1        |
| <b>Polyacetal (POM)</b>                                                    | 185°F<br>85°C                    | -40°F<br>-40°C  | 6,500                                                   | 94-HB           | N/A            | N/A                        | Excellent     | -                                              |
| <b>Halar® (PA66HL)</b>                                                     | 300°F<br>150°C                   | -104°F<br>-76°C | 6,100                                                   | 94V-0           | 52             | 2 x 10 <sup>8</sup> Rads   | Excellent     | ASTM D-3275 Type<br>CFDA CFR177.1380           |

## Material Performance Guide

| ATTRIBUTE                  | POLYAMIDE 6.6 GENERAL PURPOSE | POLYAMIDE 6.6 HEAT STABILIZED | POLYAMIDE 6.6 UV RESISTANT | POLYAMIDE 6.6 - 2% CARBON UV RESISTANT | POLYAMIDE 6.6 FLAME RETARDANT V0 | POLYAMIDE 6.6 IMPACT MODIFIED, HEAT STABILIZED UV RESISTANT | POLYAMIDE 6.6 HIGH IMPACT | POLYAMIDE 4.6 HEAT STABILIZED | POLYPROPYLENE | POLYAMIDE 12 UV RESISTANT | ETHLENTERAFUORINE-ETHYLENE — TEFZEL® | POLYACETAL | HALAR® |
|----------------------------|-------------------------------|-------------------------------|----------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|---------------------------|-------------------------------|---------------|---------------------------|--------------------------------------|------------|--------|
|                            |                               |                               |                            |                                        |                                  |                                                             |                           |                               |               |                           |                                      |            |        |
| <b>Tensile Strength</b>    | 8                             | 8                             | 8                          | 9                                      | 7                                | 8                                                           | 7                         | 10                            | 2             | 4                         | 5                                    | 5          | 5      |
| <b>High Temperature</b>    | 2                             | 3                             | 2                          | 2                                      | 2                                | 3                                                           | 2                         | 9                             | 2             | 1                         | 10                                   | 3          | 10     |
| <b>Flammability</b>        | 5                             | 5                             | 5                          | 5                                      | 10                               | 2                                                           | 2                         | 5                             | 2             | 2                         | 10                                   | 2          | 10     |
| <b>UV Resistance</b>       | 1                             | 1                             | 5                          | 8                                      | 1                                | 8                                                           | 2                         | 1                             | 5             | 3                         | 10                                   | 10         | 10     |
| <b>Radiation</b>           | 3                             | 3                             | 3                          | 3                                      | 3                                | 3                                                           | 3                         | 3                             | 6             | 3                         | 10                                   | 3          | 10     |
| <b>Chemical Resistance</b> | 6                             | 6                             | 6                          | 6                                      | 6                                | 6                                                           | 6                         | 6                             | 8             | 8                         | 10                                   | -          | 10     |
| - Hydrocarbons             | 8                             | 8                             | 8                          | 8                                      | 8                                | 8                                                           | 8                         | 8                             | 6             | 8                         | 10                                   | 8          | 10     |
| - Chlorinated Hydrocarbons | 6                             | 6                             | 6                          | 6                                      | 6                                | 6                                                           | 6                         | 6                             | 3             | 8                         | 10                                   | 5          | 5      |
| - Acids                    | 2                             | 2                             | 2                          | 2                                      | 2                                | 2                                                           | 2                         | 2                             | 8             | 5                         | 10                                   | 8          | 10     |
| - Bases                    | 8                             | 6                             | 6                          | 6                                      | 6                                | 6                                                           | 6                         | 6                             | 8             | 6                         | 10                                   | 8          | 10     |
| - Salts                    | 3                             | 3                             | 3                          | 3                                      | 3                                | 3                                                           | 3                         | 3                             | 10            | 8                         | 10                                   | 8          | 10     |
| <b>Relative Cost</b>       | Low                           | Low                           | Med.                       | Med.                                   | Med.                             | Med.                                                        | Med.                      | Med.                          | Med.          | Med.                      | High                                 | Med.       | High   |

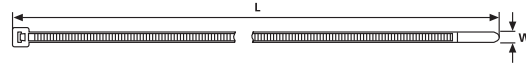
10 = Most Recommended 1 = Least Recommended

## Cable Ties

## Standard Cable Ties

## T18 - T30 Series - Natural and Black

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Material Data         |                                                 |
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



File# E64139



File# E64139

## Product Selection

| Article No. | Part No. | Type  | US Gov.<br>Designation | Min. Tensile<br>Strength |       | Length (L) |       | Max. Ø<br>Bundle |       | Width (W) |       | Color   | Pkg. Qty. |
|-------------|----------|-------|------------------------|--------------------------|-------|------------|-------|------------------|-------|-----------|-------|---------|-----------|
|             |          |       |                        | lbs.                     | (N)   | in.        | (mm)  | in.              | (mm)  | in.       | (mm)  |         |           |
| T18S        |          |       |                        |                          |       |            |       |                  |       |           |       |         |           |
| 111-02805   | T18S9C2  | T18S  | MS3367-4-9             | 18 lbs                   | (80)  | 3.27"      | (83)  | .63"             | (16)  | .09"      | (2.3) | Natural | 100       |
| 111-02809   | T18S9M4  | T18S  | MS3367-4-9             | 18 lbs                   | (80)  | 3.27"      | (83)  | .63"             | (16)  | .09"      | (2.3) |         | 1000      |
| 111-02810   | T18S0C2  | T18S  | *                      | 18 lbs                   | (80)  | 3.27"      | (83)  | .63"             | (16)  | .09"      | (2.3) | Black   | 100       |
| 111-02811   | T18S0M4  | T18S  | *                      | 18 lbs                   | (80)  | 3.27"      | (83)  | .63"             | (16)  | .09"      | (2.3) |         | 1000      |
| T18R        |          |       |                        |                          |       |            |       |                  |       |           |       |         |           |
| 112-01819   | T18R9C2  | T18R  | MS3367-4-9             | 18 lbs                   | (80)  | 4"         | (100) | .87"             | (22)  | .10"      | (2.5) | Natural | 100       |
| 111-01872   | T18R9M4  | T18R  | MS3367-4-9             | 18 lbs                   | (80)  | 4"         | (100) | .87"             | (22)  | .10"      | (2.5) |         | 1000      |
| 111-00405   | T18R0C2  | T18R  | *                      | 18 lbs                   | (80)  | 4"         | (100) | .87"             | (22)  | .10"      | (2.5) | Black   | 100       |
| 111-01841   | T18R0M4  | T18R  | *                      | 18 lbs                   | (80)  | 4"         | (100) | .87"             | (22)  | .10"      | (2.5) |         | 1000      |
| T18I        |          |       |                        |                          |       |            |       |                  |       |           |       |         |           |
| 111-02311   | T18I9C2  | T18I  | —                      | 18 lbs                   | (80)  | 5.51"      | (140) | 1.38"            | (35)  | .10"      | (2.5) | Natural | 100       |
| 111-02322   | T18I9M4  | T18I  | —                      | 18 lbs                   | (80)  | 5.51"      | (140) | 1.38"            | (35)  | .10"      | (2.5) |         | 1000      |
| 111-02308   | T18I0C2  | T18I  | —                      | 18 lbs                   | (80)  | 5.51"      | (140) | 1.38"            | (35)  | .10"      | (2.5) | Black   | 100       |
| 111-02315   | T18I0M4  | T18I  | —                      | 18 lbs                   | (80)  | 5.51"      | (140) | 1.38"            | (35)  | .10"      | (2.5) |         | 1000      |
| T18L        |          |       |                        |                          |       |            |       |                  |       |           |       |         |           |
| 111-02189   | T18L9C2  | T18L  | —                      | 18 lbs                   | (80)  | 8.0"       | (205) | 2.17"            | (55)  | .10"      | (2.5) | Natural | 100       |
| 111-02026   | T18L9M4  | T18L  | —                      | 18 lbs                   | (80)  | 8.0"       | (205) | 2.17"            | (55)  | .10"      | (2.5) |         | 1000      |
| 111-00401   | T18L0C2  | T18L  | —                      | 18 lbs                   | (80)  | 8.0"       | (205) | 2.17"            | (55)  | .10"      | (2.5) | Black   | 100       |
| 111-02015   | T18L0M4  | T18L  | —                      | 18 lbs                   | (80)  | 8.0"       | (205) | 2.17"            | (55)  | .10"      | (2.5) |         | 1000      |
| T30R        |          |       |                        |                          |       |            |       |                  |       |           |       |         |           |
| 112-03019   | T30R9C2  | T30R  | MS3367-5-9             | 30 lbs                   | (135) | 5.9"       | (150) | 1.38"            | (35)  | .14"      | (3.5) | Natural | 100       |
| 111-03047   | T30R9M4  | T30R  | MS3367-5-9             | 30 lbs                   | (135) | 5.9"       | (150) | 1.38"            | (35)  | .14"      | (3.5) |         | 1000      |
| 111-00438   | T30R0C2  | T30R  | *                      | 30 lbs                   | (135) | 5.9"       | (150) | 1.38"            | (35)  | .14"      | (3.5) | Black   | 100       |
| 111-03034   | T30R0M4  | T30R  | *                      | 30 lbs                   | (135) | 5.9"       | (150) | 1.38"            | (35)  | .14"      | (3.5) |         | 1000      |
| T30L        |          |       |                        |                          |       |            |       |                  |       |           |       |         |           |
| 111-03325   | T30L9C2  | T30L  | —                      | 30 lbs                   | (135) | 7.48"      | (190) | 1.97"            | (50)  | .14"      | (3.5) | Natural | 100       |
| 111-03327   | T30L9M4  | T30L  | —                      | 30 lbs                   | (135) | 7.48"      | (190) | 1.97"            | (50)  | .14"      | (3.5) |         | 1000      |
| 111-03313   | T30L0C2  | T30L  | —                      | 30 lbs                   | (135) | 7.48"      | (190) | 1.97"            | (50)  | .14"      | (3.5) | Black   | 100       |
| 111-03315   | T30L0M4  | T30L  | —                      | 30 lbs                   | (135) | 7.48"      | (190) | 1.97"            | (50)  | .14"      | (3.5) |         | 1000      |
| T30LL       |          |       |                        |                          |       |            |       |                  |       |           |       |         |           |
| 111-03515   | T30LL9C2 | T30LL | —                      | 30 lbs                   | (135) | 11.42"     | (290) | 3.15"            | (80)  | .14"      | (3.5) | Natural | 100       |
| 111-03517   | T30LL9M4 | T30LL | —                      | 30 lbs                   | (135) | 11.42"     | (290) | 3.15"            | (80)  | .14"      | (3.5) |         | 1000      |
| 111-03501   | T30LL0C2 | T30LL | —                      | 30 lbs                   | (135) | 11.42"     | (290) | 3.15"            | (80)  | .14"      | (3.5) | Black   | 100       |
| 111-03511   | T30LL0M4 | T30LL | —                      | 30 lbs                   | (135) | 11.42"     | (290) | 3.15"            | (80)  | .14"      | (3.5) |         | 1000      |
| T30XL       |          |       |                        |                          |       |            |       |                  |       |           |       |         |           |
| 111-02900   | T30XL9C2 | T30XL | MS3367-5-9             | 30 lbs                   | (135) | 14.37"     | (365) | 4.13"            | (105) | .14"      | (3.5) | Natural | 100       |
| 111-02907   | T30XL9M4 | T30XL | MS3367-5-9             | 30 lbs                   | (135) | 14.37"     | (365) | 4.13"            | (105) | .14"      | (3.5) |         | 1000      |
| 111-02901   | T30XL0C2 | T30XL | *                      | 30 lbs                   | (135) | 14.37"     | (365) | 4.13"            | (105) | .14"      | (3.5) | Black   | 100       |
| 111-02903   | T30XL0M4 | T30XL | *                      | 30 lbs                   | (135) | 14.37"     | (365) | 4.13"            | (105) | .14"      | (3.5) |         | 1000      |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. MK9 and MK9P cannot be used with T18S cable ties.

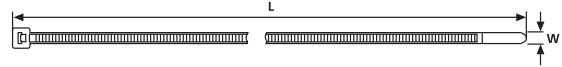
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

\* Military black available. Contact HellermannTyton for more information.

## Standard Cable Ties

### T40 - T50 Series - Natural and Black

| Material Data         |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



File# E64139



File# E64139

| Product Selection |          |         |                     | File# E64139          |       |            |       |               |       |           |       |         |           | File# E64139 |  |
|-------------------|----------|---------|---------------------|-----------------------|-------|------------|-------|---------------|-------|-----------|-------|---------|-----------|--------------|--|
| Article No.       | Part No. | Type    | US Gov. Designation | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |       | Width (W) |       | Color   | Pkg. Qty. |              |  |
|                   |          |         |                     | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm)  | in.       | (mm)  |         |           |              |  |
| T40R              |          |         |                     |                       |       |            |       |               |       |           |       |         |           |              |  |
| 112-04019         | T40R9C2  | T40R(U) | —                   | 40 lbs                | (180) | 8.27"      | (210) | 2.16"         | (55)  | .16"      | (4.0) | Natural | 100       |              |  |
| 111-04131         | T40R9M4  | T40R(U) | —                   | 40 lbs                | (180) | 8.27"      | (210) | 2.16"         | (55)  | .16"      | (4.0) |         | 1000      |              |  |
| 112-04060         | T40R0C2  | T40R(U) | —                   | 40 lbs                | (180) | 8.27"      | (210) | 2.16"         | (55)  | .16"      | (4.0) | Black   | 100       |              |  |
| 111-04122         | T40R0M4  | T40R(U) | —                   | 40 lbs                | (180) | 8.27"      | (210) | 2.16"         | (55)  | .16"      | (4.0) |         | 1000      |              |  |
| T40I              |          |         |                     |                       |       |            |       |               |       |           |       |         |           |              |  |
| 111-04609         | T40I9C2  | T40I    | —                   | 40 lbs                | (180) | 11.42"     | (290) | 3.15"         | (80)  | .16"      | (4.0) | Natural | 100       |              |  |
| 111-04612         | T40I9M4  | T40I    | —                   | 40 lbs                | (180) | 11.42"     | (290) | 3.15"         | (80)  | .16"      | (4.0) |         | 1000      |              |  |
| 111-04600         | T40I0C2  | T40I    | —                   | 40 lbs                | (180) | 11.42"     | (290) | 3.15"         | (80)  | .16"      | (4.0) | Black   | 100       |              |  |
| 111-04604         | T40I0M4  | T40I    | —                   | 40 lbs                | (180) | 11.42"     | (290) | 3.15"         | (80)  | .16"      | (4.0) |         | 1000      |              |  |
| T40L              |          |         |                     |                       |       |            |       |               |       |           |       |         |           |              |  |
| 111-04300         | T40L9C2  | T40L    | —                   | 40 lbs                | (180) | 14.4"      | (365) | 4.13"         | (105) | .16"      | (4.0) | Natural | 100       |              |  |
| 111-04311         | T40L9M4  | T40L    | —                   | 40 lbs                | (180) | 14.4"      | (365) | 4.13"         | (105) | .16"      | (4.0) |         | 1000      |              |  |
| 111-04301         | T40L0C2  | T40L    | —                   | 40 lbs                | (180) | 14.4"      | (365) | 4.13"         | (105) | .16"      | (4.0) | Black   | 100       |              |  |
| 111-04305         | T40L0M4  | T40L    | —                   | 40 lbs                | (180) | 14.4"      | (365) | 4.13"         | (105) | .16"      | (4.0) |         | 1000      |              |  |
| T50S              |          |         |                     |                       |       |            |       |               |       |           |       |         |           |              |  |
| 111-05811         | T50S9C2  | T50S    | —                   | 50 lbs                | (225) | 5.9"       | (150) | 1.38"         | (35)  | .18"      | (4.6) | Natural | 100       |              |  |
| 111-05813         | T50S9M4  | T50S    | —                   | 50 lbs                | (225) | 5.9"       | (150) | 1.38"         | (35)  | .18"      | (4.6) |         | 1000      |              |  |
| 111-05806         | T50S0C2  | T50S    | —                   | 50 lbs                | (225) | 5.9"       | (150) | 1.38"         | (35)  | .18"      | (4.6) | Black   | 100       |              |  |
| 111-05808         | T50S0M4  | T50S    | —                   | 50 lbs                | (225) | 5.9"       | (150) | 1.38"         | (35)  | .18"      | (4.6) |         | 1000      |              |  |
| T50R              |          |         |                     |                       |       |            |       |               |       |           |       |         |           |              |  |
| 112-05019         | T50R9C2  | T50R    | MS3367-1-9          | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Natural | 100       |              |  |
| 111-04862         | T50R9M4  | T50R    | MS3367-1-9          | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |         | 1000      |              |  |
| 111-04878         | T50R0C2  | T50R    | *                   | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Black   | 100       |              |  |
| 111-04846         | T50R0M4  | T50R    | *                   | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |         | 1000      |              |  |
| T50I              |          |         |                     |                       |       |            |       |               |       |           |       |         |           |              |  |
| 112-05219         | T50I9C2  | T50I    | MS3367-7-9          | 50 lbs                | (225) | 11.8"      | (300) | 3.35"         | (85)  | .18"      | (4.6) | Natural | 100       |              |  |
| 111-05230         | T50I9M4  | T50I    | MS3367-7-9          | 50 lbs                | (225) | 11.8"      | (300) | 3.35"         | (85)  | .18"      | (4.6) |         | 1000      |              |  |
| 111-00444         | T50I0C2  | T50I    | *                   | 50 lbs                | (225) | 11.8"      | (300) | 3.35"         | (85)  | .18"      | (4.6) | Black   | 100       |              |  |
| 111-05216         | T50I0M4  | T50I    | *                   | 50 lbs                | (225) | 11.8"      | (300) | 3.35"         | (85)  | .18"      | (4.6) |         | 1000      |              |  |
| T50L              |          |         |                     |                       |       |            |       |               |       |           |       |         |           |              |  |
| 112-05419         | T50L9C2  | T50L    | MS3367-2-9          | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Natural | 100       |              |  |
| 111-05449         | T50L9M4  | T50L    | MS3367-2-9          | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |         | 1000      |              |  |
| 111-00445         | T50L0C2  | T50L    | *                   | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Black   | 100       |              |  |
| 111-00504         | T50L0M4  | T50L    | *                   | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |         | 1000      |              |  |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes.

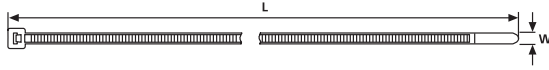
Use **Part No.** for ordering and **Type** for specification purposes.

\* Military black available. Contact HellermannTyton for more information.



# Cable Ties

## Heavy Duty Cable Ties



### Material Data

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



## T120 Series



File# E64139



File# E64139

| Product Selection |          |       |                     |                       |       |            |       |               |       |           |       |         |           |
|-------------------|----------|-------|---------------------|-----------------------|-------|------------|-------|---------------|-------|-----------|-------|---------|-----------|
| Article No.       | Part No. | Type  | US Gov. Designation | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |       | Width (W) |       | Color   | Pkg. Qty. |
|                   |          |       |                     | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm)  | in.       | (mm)  |         |           |
| T120S             |          |       |                     |                       |       |            |       |               |       |           |       |         |           |
| 111-12819         | T120S9K2 | T120S | —                   | 120 lbs               | (535) | 8.85"      | (225) | 2.17"         | (55)  | .30"      | (7.6) | Natural | 50        |
| 111-12813         | T120S9H4 | T120S | —                   | 120 lbs               | (535) | 8.85"      | (225) | 2.17"         | (55)  | .30"      | (7.6) |         | 500       |
| 111-12803         | T120S0K2 | T120S | —                   | 120 lbs               | (535) | 8.85"      | (225) | 2.17"         | (55)  | .30"      | (7.6) | Black   | 50        |
| 111-12808         | T120S0H4 | T120S | —                   | 120 lbs               | (535) | 8.85"      | (225) | 2.17"         | (55)  | .30"      | (7.6) |         | 500       |
| T120I             |          |       |                     |                       |       |            |       |               |       |           |       |         |           |
| 111-12211         | T120I9K2 | T120I | —                   | 120 lbs               | (535) | 11.81"     | (300) | 3.15"         | (80)  | .30"      | (7.6) | Natural | 50        |
| 111-12213         | T120I9H4 | T120I | —                   | 120 lbs               | (535) | 11.81"     | (300) | 3.15"         | (80)  | .30"      | (7.6) |         | 500       |
| 111-12201         | T120I0K2 | T120I | —                   | 120 lbs               | (535) | 11.81"     | (300) | 3.15"         | (80)  | .30"      | (7.6) | Black   | 50        |
| 111-12206         | T120I0H4 | T120I | —                   | 120 lbs               | (535) | 11.81"     | (300) | 3.15"         | (80)  | .30"      | (7.6) |         | 500       |
| T120R             |          |       |                     |                       |       |            |       |               |       |           |       |         |           |
| 112-12019         | T120R9K2 | T120R | MS3367-3-9          | 120 lbs               | (535) | 15.24"     | (387) | 4.13"         | (105) | .30"      | (7.6) | Natural | 50        |
| 111-12036         | T120R9H4 | T120R | MS3367-3-9          | 120 lbs               | (535) | 15.24"     | (387) | 4.13"         | (105) | .30"      | (7.6) |         | 500       |
| 112-12060         | T120R0K2 | T120R | *                   | 120 lbs               | (535) | 15.24"     | (390) | 4.13"         | (105) | .30"      | (7.6) | Black   | 50        |
| 111-12013         | T120R0H4 | T120R | *                   | 120 lbs               | (535) | 15.24"     | (387) | 4.13"         | (105) | .30"      | (7.6) |         | 500       |
| T120L             |          |       |                     |                       |       |            |       |               |       |           |       |         |           |
| 111-12419         | T120L9K2 | T120L | MS3367-6-9          | 120 lbs               | (535) | 30.0"      | (760) | 8.85"         | (225) | .30"      | (7.6) | Natural | 50        |
| 111-12405         | T120L0K2 | T120L | *                   | 120 lbs               | (535) | 30.0"      | (760) | 8.85"         | (225) | .30"      | (7.6) | Black   | 50        |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. \*Military black available. Contact HellermannTyton for more information.



File# E64139

## T150 Series

| Product Selection |            |          |                        |                          |               |              |               |          |           |  |       |              |
|-------------------|------------|----------|------------------------|--------------------------|---------------|--------------|---------------|----------|-----------|--|-------|--------------|
| Article No.       | Part No.   | Type     | US Gov.<br>Designation | Min. Tensile<br>Strength | Length (L)    |              | Max. Ø Bundle |          | Width (W) |  | Color | Pkg.<br>Qty. |
|                   |            |          |                        | lbs. (N)                 | in. (mm)      | in. (mm)     | in. (mm)      | in. (mm) |           |  |       |              |
| T150R             |            |          |                        |                          |               |              |               |          |           |  |       |              |
| 111-15203         | T150R9X2   | T150R(U) | –                      | 175 lbs (780)            | 15.35" (390)  | 4.13" (105)  | .35" (8.8)    | Natural  | 25        |  |       |              |
| 111-15200         | T150R0X2   | T150R(U) | –                      | 175 lbs (780)            | 15.35" (390)  | 4.13" (105)  | .35" (8.8)    | Black    | 25        |  |       |              |
| T150M             |            |          |                        |                          |               |              |               |          |           |  |       |              |
| 111-15619         | T150M9X2   | T150M    | –                      | 175 lbs (780)            | 21.00" (530)  | 5.91" (150)  | .35" (8.9)    | Natural  | 25        |  |       |              |
| 111-00124         | T150M0X2   | T150M    | –                      | 175 lbs (780)            | 21.00" (530)  | 5.91" (150)  | .35" (8.9)    | Black    | 25        |  |       |              |
| T150L             |            |          |                        |                          |               |              |               |          |           |  |       |              |
| 111-15419         | T150L9X2   | T150L    | –                      | 175 lbs (780)            | 32.28" (820)  | 9.65" (245)  | .35" (8.9)    | Natural  | 25        |  |       |              |
| 111-15405         | T150L0X2   | T150L    | –                      | 175 lbs (780)            | 32.28" (820)  | 9.65" (245)  | .35" (8.9)    | Black    | 25        |  |       |              |
| T150LL            |            |          |                        |                          |               |              |               |          |           |  |       |              |
| 111-15719         | T150LL9X2  | T150LL   | –                      | 175 lbs (780)            | 36.42" (925)  | 10.83" (275) | .35" (8.9)    | Natural  | 25        |  |       |              |
| 111-15700         | T150LL0X2  | T150LL   | –                      | 175 lbs (780)            | 36.42" (925)  | 10.83" (275) | .35" (8.9)    | Black    | 25        |  |       |              |
| T150XL            |            |          |                        |                          |               |              |               |          |           |  |       |              |
| 111-15519         | T150XL9X2  | T150XL   | –                      | 175 lbs (780)            | 43.11" (1095) | 13.00" (330) | .35" (8.9)    | Natural  | 25        |  |       |              |
| 111-15500         | T150XL0X2  | T150XL   | –                      | 175 lbs (780)            | 43.11" (1095) | 13.00" (330) | .35" (8.9)    | Black    | 25        |  |       |              |
| T150XLL           |            |          |                        |                          |               |              |               |          |           |  |       |              |
| 111-15304         | T150XLL9X2 | T150XLL  | –                      | 175 lbs (780)            | 52.17" (1325) | 15.95" (405) | .35" (8.9)    | Natural  | 25        |  |       |              |
| 111-15300         | T150XLL0X2 | T150XLL  | –                      | 175 lbs (780)            | 52.17" (1325) | 15.95" (405) | .35" (8.9)    | Black    | 25        |  |       |              |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Wide Strap Heavy Duty Cable Ties

The wide strap cable tie minimizes pinching on soft bundles and features a low profile head to provide compact bundling. A thinner strap provides increased flexibility for improved ergonomics.

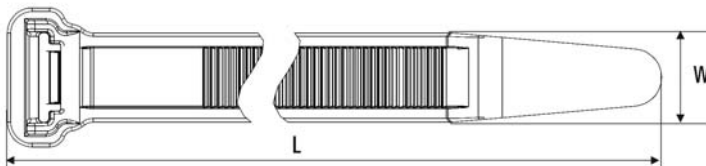
- Wide strap is designed to minimize pinching of soft hoses and convoluted tubing
- Low profile head
- Clamping rails on the bottom of head to increase grip on round bundles
- Accommodates a large range of bundle diameters: .375" - 4.125" (9.5mm - 104.7mm)
- Flexible strap
- Bent tip for quick insertion into mounts



### Material Data

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS)</b> |
| Operating Temperature | <b>-40 °F to +230 °F (-40 °C to +110 °C) continuous</b>                |
| Flammability          | <b>UL94 HB</b>                                                         |

RoHS



### Product Selection

|             |           |      | Min. Tensile Strength |       | Length (L) |          | Max. Ø Bundle |          | Width (W) |        | Color | Pkg. Qty. |
|-------------|-----------|------|-----------------------|-------|------------|----------|---------------|----------|-----------|--------|-------|-----------|
| Article No. | Part No.  | Type | lbs. (N)              |       | in. (mm)   |          | in. (mm)      |          | in. (mm)  |        |       |           |
| WSS         |           |      |                       |       |            |          |               |          |           |        |       |           |
| 111-12303   | 111-12303 | WSS  | 120 lbs               | (534) | 9.1"       | (231.14) | 2.25"         | (57.15)  | .5"       | (12.7) | Black | 60        |
| 111-12300   | 111-12300 | WSS  | 120 lbs               | (534) | 9.1"       | (231.14) | 2.25"         | (57.15)  | .5"       | (12.7) | Black | 300       |
| WSI         |           |      |                       |       |            |          |               |          |           |        |       |           |
| 111-12304   | 111-12304 | WSI  | 120 lbs               | (534) | 12.1"      | (307.34) | 3.25"         | (82.55)  | .5"       | (12.7) | Black | 60        |
| 111-12301   | 111-12301 | WSI  | 120 lbs               | (534) | 12.1"      | (307.34) | 3.25"         | (82.55)  | .5"       | (12.7) | Black | 300       |
| WSR         |           |      |                       |       |            |          |               |          |           |        |       |           |
| 111-12305   | 111-12305 | WSR  | 120 lbs               | (534) | 15.1"      | (383.54) | 4.125"        | (104.78) | .5"       | (12.7) | Black | 60        |
| 111-12302   | 111-12302 | WSR  | 120 lbs               | (534) | 15.1"      | (383.54) | 4.125"        | (104.78) | .5"       | (12.7) | Black | 300       |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

# Cable Ties

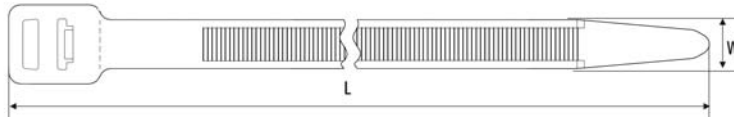
## Heavy Duty Cable Ties T250 Series

These cable ties offer a high minimum tensile strength and have a buckle feature which allows the end of the cable tie to be tucked away if necessary. The buckle also snaps into HellermannTyton LTM, lashing tie mounts.



T250 heavy duty cable tie and lashing tie mount application

| Material Data         |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



**UL**  
File# E64139

| Product Selection |           |        |                       |        |            |        |               |       |           |        |         |           |
|-------------------|-----------|--------|-----------------------|--------|------------|--------|---------------|-------|-----------|--------|---------|-----------|
| Article No.       | Part No.  | Type   | Min. Tensile Strength |        | Length (L) |        | Max. Ø Bundle |       | Width (W) |        | Color   | Pkg. Qty. |
|                   |           |        | lbs.                  | (N)    | in.        | (mm)   | in.           | (mm)  | in.       | (mm)   |         |           |
| T250S             |           |        |                       |        |            |        |               |       |           |        |         |           |
| 111-24702         | T250S9X2  | T250S  | 250 lbs               | (1115) | 9.05"      | (230)  | 2.17"         | (55)  | .49"      | (12.5) | Natural | 25        |
| 111-24700         | T250S0X2  | T250S  | 250 lbs               | (1115) | 9.05"      | (230)  | 2.17"         | (55)  | .49"      | (12.5) | Black   | 25        |
| T250R             |           |        |                       |        |            |        |               |       |           |        |         |           |
| 111-24803         | T250R9X2  | T250R  | 250 lbs               | (1115) | 20.47"     | (520)  | 5.71"         | (145) | .49"      | (12.5) | Natural | 25        |
| 111-24801         | T250R0X2  | T250R  | 250 lbs               | (1115) | 20.47"     | (520)  | 5.71"         | (145) | .49"      | (12.5) | Black   | 25        |
| T250M             |           |        |                       |        |            |        |               |       |           |        |         |           |
| 111-25002         | T250M9X2  | T250M  | 250 lbs               | (1115) | 22.24"     | (565)  | 5.90"         | (150) | .49"      | (12.5) | Natural | 25        |
| 111-25001         | T250M0X2  | T250M  | 250 lbs               | (1115) | 22.24"     | (565)  | 5.90"         | (150) | .49"      | (12.5) | Black   | 25        |
| T250I             |           |        |                       |        |            |        |               |       |           |        |         |           |
| 111-25219         | T250I9X2  | T250I  | 250 lbs               | (1115) | 28.54"     | (725)  | 8.00"         | (203) | .49"      | (12.5) | Natural | 25        |
| 111-00507         | T250I0X2  | T250I  | 250 lbs               | (1115) | 28.54"     | (725)  | 8.00"         | (203) | .49"      | (12.5) | Black   | 25        |
| T250L             |           |        |                       |        |            |        |               |       |           |        |         |           |
| 111-00436         | T250L9X2  | T250L  | 250 lbs               | (1115) | 34.65"     | (880)  | 10.00"        | (254) | .49"      | (12.5) | Natural | 25        |
| 111-24601         | T250L0X2  | T250L  | 250 lbs               | (1115) | 34.65"     | (880)  | 10.00"        | (254) | .49"      | (12.5) | Black   | 25        |
| T250XL            |           |        |                       |        |            |        |               |       |           |        |         |           |
| 111-00466         | T250XL9X2 | T250XL | 250 lbs               | (1115) | 40.55"     | (1030) | 12.00"        | (305) | .49"      | (12.5) | Natural | 25        |
| 111-25200         | T250XL0X2 | T250XL | 250 lbs               | (1115) | 40.55"     | (1030) | 12.00"        | (305) | .49"      | (12.5) | Black   | 25        |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

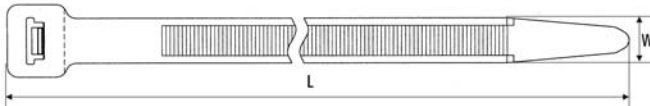
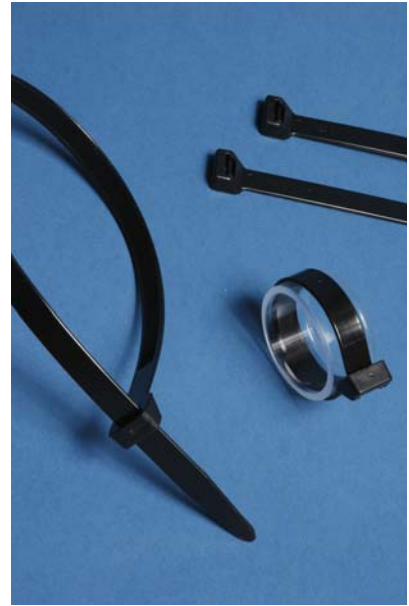
## Heavy Duty Cable Ties

### T255 Series

HellermannTyton's T255 series heavy duty cable ties are ideal for bundles requiring a strong cable tie that may also require a higher temperature rating than the T250 series. These ties have a tensile strength of 250 lbs.

| Material Data         |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Material              | Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS) |
| Operating Temperature | -40 °F to +230 °F (-40 °C to +110 °C) continuous                |
| Flammability          | UL94 HB                                                         |

RoHS



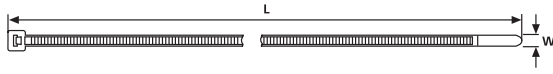
**UL**  
File# E64139

| Product Selection |                    |       | Min. Tensile Strength | Length (L)   | Max. Ø Bundle | Width (W)   | Color | Pkg. Qty. |
|-------------------|--------------------|-------|-----------------------|--------------|---------------|-------------|-------|-----------|
| Article No.       | Part No.           | Type  |                       |              |               |             |       |           |
| 111-25500         | <b>T255S0HIRX2</b> | T255S | 250 lbs (1115)        | 8.86" (225)  | 2.16" (55)    | .49" (12.5) | Black | 25        |
| 111-25400         | <b>T255R0HIRX2</b> | T255R | 250 lbs (1115)        | 20.28" (520) | 5.71" (145)   | .49" (12.5) | Black | 25        |
| 111-25300         | <b>T255M0HIRX2</b> | T255M | 250 lbs (1115)        | 22.05" (565) | 6.30" (160)   | .49" (12.5) | Black | 25        |

Installation tools - MK9, MK9HT, MK9P.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties

Standard Cable Ties  
T18R and T30R Series - Colors

## Material Data

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



File# E64139



File# E64139

## Product Selection

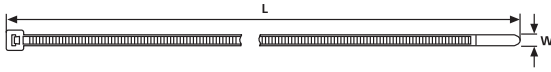
| Article No. | Part No. | Type | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |      | Width (W) |       | Color  | Pkg. Qty. |
|-------------|----------|------|-----------------------|-------|------------|-------|---------------|------|-----------|-------|--------|-----------|
|             |          |      | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm) | in.       | (mm)  |        |           |
| T18R        |          |      |                       |       |            |       |               |      |           |       |        |           |
| 116-01811   | T18R1C2  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) | Brown  | 100       |
| 111-01849   | T18R1M4  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) |        | 1000      |
| 111-01880   | T18R2C2  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) | Red    | 100       |
| 111-01882   | T18R2M4  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) |        | 1000      |
| 116-01813   | T18R3C2  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) | Orange | 100       |
| 111-01877   | T18R3M4  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) |        | 1000      |
| 111-01896   | T18R4C2  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) | Yellow | 100       |
| 111-01898   | T18R4M4  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) |        | 1000      |
| 111-01853   | T18R5C2  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) | Green  | 100       |
| 111-01855   | T18R5M4  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) |        | 1000      |
| 111-01842   | T18R6C2  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) | Blue   | 100       |
| 111-01845   | T18R6M4  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) |        | 1000      |
| 116-01817   | T18R7C2  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) | Purple | 100       |
| 111-01888   | T18R7M4  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) |        | 1000      |
| 111-01857   | T18R8C2  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) | Gray   | 100       |
| 111-01859   | T18R8M4  | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) |        | 1000      |
| 116-01819   | T18R10C2 | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) | White  | 100       |
| 111-01892   | T18R10M4 | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22) | .10"      | (2.5) |        | 1000      |
| T30R        |          |      |                       |       |            |       |               |      |           |       |        |           |
| 116-03011   | T30R1C2  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) | Brown  | 100       |
| 111-03038   | T30R1M4  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) |        | 1000      |
| 116-03012   | T30R2C2  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) | Red    | 100       |
| 111-03056   | T30R2M4  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) |        | 1000      |
| 116-03013   | T30R3C2  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) | Orange | 100       |
| 111-03052   | T30R3M4  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) |        | 1000      |
| 116-03014   | T30R4C2  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) | Yellow | 100       |
| 111-03065   | T30R4M4  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) |        | 1000      |
| 116-03015   | T30R5C2  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) | Green  | 100       |
| 111-03041   | T30R5M4  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) |        | 1000      |
| 116-03016   | T30R6C2  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) | Blue   | 100       |
| 111-03036   | T30R6M4  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) |        | 1000      |
| 116-03017   | T30R7C2  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) | Purple | 100       |
| 111-03062   | T30R7M4  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) |        | 1000      |
| 116-03018   | T30R8C2  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) | Gray   | 100       |
| 111-03061   | T30R8M4  | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) |        | 1000      |
| 111-03019   | T30R10C2 | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) | White  | 100       |
| 116-03064   | T30R10M4 | T30R | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35) | .14"      | (3.5) |        | 1000      |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. MK9 and MK9P tools cannot be used to install T18S cable ties.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Standard Cable Ties

### T50R and T50L Series - Colors



#### Material Data

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



File# E64139



File# E64139

#### Product Selection

| Article No. | Part No. | Type | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |       | Width (W) |       | Color  | Pkg. Qty. |
|-------------|----------|------|-----------------------|-------|------------|-------|---------------|-------|-----------|-------|--------|-----------|
|             |          |      | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm)  | in.       | (mm)  |        |           |
| T50R        |          |      |                       |       |            |       |               |       |           |       |        |           |
| 116-05011   | T50R1C2  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Brown  | 100       |
| 111-04852   | T50R1M4  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |        | 1000      |
| 116-05012   | T50R2C2  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Red    | 100       |
| 111-04868   | T50R2M4  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |        | 1000      |
| 116-05013   | T50R3C2  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Orange | 100       |
| 111-04865   | T50R3M4  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |        | 1000      |
| 116-05014   | T50R4C2  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Yellow | 100       |
| 111-04892   | T50R4M4  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |        | 1000      |
| 116-05015   | T50R5C2  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Green  | 100       |
| 111-04854   | T50R5M4  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |        | 1000      |
| 116-05016   | T50R6C2  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Blue   | 100       |
| 111-04849   | T50R6M4  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |        | 1000      |
| 116-05017   | T50R7C2  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Purple | 100       |
| 111-04877   | T50R7M4  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |        | 1000      |
| 111-04870   | T50R8C2  | T50R | 50 lbs                | (225) | 7.9"       | (202) | 1.97"         | (50)  | .18"      | (4.6) | Gray   | 100       |
| 111-04872   | T50R8M4  | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |        | 1000      |
| 116-05019   | T50R10C2 | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | White  | 100       |
| 111-04879   | T50R10M4 | T50R | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) |        | 1000      |
| T50L        |          |      |                       |       |            |       |               |       |           |       |        |           |
| 111-05443   | T50L1C2  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Brown  | 100       |
| 111-05444   | T50L1M4  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |        | 1000      |
| 111-05457   | T50L2C2  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Red    | 100       |
| 111-05458   | T50L2M4  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |        | 1000      |
| 111-05451   | T50L3C2  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Orange | 100       |
| 111-05454   | T50L3M4  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |        | 1000      |
| 111-05467   | T50L4C2  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Yellow | 100       |
| 111-05468   | T50L4M4  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |        | 1000      |
| 111-05445   | T50L5C2  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Green  | 100       |
| 111-00502   | T50L5M4  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |        | 1000      |
| 111-05431   | T50L6C2  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Blue   | 100       |
| 111-05434   | T50L6M4  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |        | 1000      |
| 111-05464   | T50L7C2  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Purple | 100       |
| 111-00503   | T50L7M4  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |        | 1000      |
| 111-05461   | T50L8C2  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Gray   | 100       |
| 111-05462   | T50L8M4  | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |        | 1000      |
| 111-05466   | T50L10C2 | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | White  | 100       |
| 111-05465   | T50L10M4 | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) |        | 1000      |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

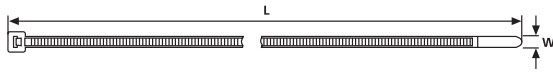
## Cable Ties

## Standard Cable Ties- Specialty Materials

### T18 -T120 Series - Heat Stabilized

HellermannTyton's heat stabilized cable ties provide excellent resistance when exposed to high heat applications.

| Material Data         |                                                  |
|-----------------------|--------------------------------------------------|
| Material              | Polyamide 6.6 heat stabilized (PA66HS)           |
| Operating Temperature | -40 °F to +221 °F (-40 °C to +105 °C) continuous |
| Flammability          | UL94 V2                                          |



| Product Selection |            |       |                       |       |            |       |               |       |           |       |       |           |
|-------------------|------------|-------|-----------------------|-------|------------|-------|---------------|-------|-----------|-------|-------|-----------|
| Article No.       | Part No.   | Type  | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |       | Width (W) |       | Color | Pkg. Qty. |
|                   |            |       | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm)  | in.       | (mm)  |       |           |
| T18S              |            |       |                       |       |            |       |               |       |           |       |       |           |
| 111-02815         | T18S0HSM4  | T18S  | 18 lbs                | (80)  | 3.27"      | (83)  | .63"          | (16)  | .09"      | (2.3) | Black | 1000      |
| T18R              |            |       |                       |       |            |       |               |       |           |       |       |           |
| 111-01905         | T18R0HSC2  | T18R  | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22)  | .10"      | (2.5) | Black | 100       |
| 111-00476         | T18R0HSM4  | T18R  | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22)  | .10"      | (2.5) | Black | 1000      |
| T18I              |            |       |                       |       |            |       |               |       |           |       |       |           |
| 111-02305         | T18I0HSM4  | T18I  | 18 lbs                | (80)  | 5.5"       | (140) | 1.38"         | (35)  | .10"      | (2.5) | Black | 1000      |
| T18L              |            |       |                       |       |            |       |               |       |           |       |       |           |
| 111-00403         | T18L0HSC2  | T18L  | 18 lbs                | (80)  | 8.0"       | (205) | 2.17"         | (55)  | .10"      | (2.5) | Black | 100       |
| 111-00404         | T18L0HSM4  | T18L  | 18 lbs                | (80)  | 8.0"       | (205) | 2.17"         | (55)  | .10"      | (2.5) | Black | 1000      |
| T30R              |            |       |                       |       |            |       |               |       |           |       |       |           |
| 111-03067         | T30R0HSC2  | T30R  | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35)  | .14"      | (3.5) | Black | 100       |
| 111-03068         | T30R0HSM4  | T30R  | 30 lbs                | (135) | 5.9"       | (150) | 1.38"         | (35)  | .14"      | (3.5) | Black | 1000      |
| T50R              |            |       |                       |       |            |       |               |       |           |       |       |           |
| 111-04900         | T50R0HSC2  | T50R  | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Black | 100       |
| 111-04901         | T50R0HSM4  | T50R  | 50 lbs                | (225) | 7.9"       | (200) | 1.97"         | (50)  | .18"      | (4.6) | Black | 1000      |
| T50I              |            |       |                       |       |            |       |               |       |           |       |       |           |
| 111-05248         | T50I0HSC2  | T50I  | 50 lbs                | (225) | 11.8"      | (300) | 3.35"         | (85)  | .18"      | (4.6) | Black | 100       |
| 111-05251         | T50I0HSM4  | T50I  | 50 lbs                | (225) | 11.8"      | (300) | 3.35"         | (85)  | .18"      | (4.6) | Black | 1000      |
| T50L              |            |       |                       |       |            |       |               |       |           |       |       |           |
| 111-05470         | T50L0HSC2  | T50L  | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Black | 100       |
| 111-05471         | T50L0HSM4  | T50L  | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .18"      | (4.6) | Black | 1000      |
| T120R             |            |       |                       |       |            |       |               |       |           |       |       |           |
| 111-12061         | T120R0HSC2 | T120R | 120 lbs               | (535) | 15.24"     | (387) | 4.13"         | (105) | .30"      | (7.6) | Black | 50        |
| 111-12058         | T120R0HSH4 | T120R | 120 lbs               | (535) | 15.24"     | (387) | 4.13"         | (105) | .30"      | (7.6) | Black | 500       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. (MK9, MK9HT, and MK9P tools cannot be used with T18S cable tie)

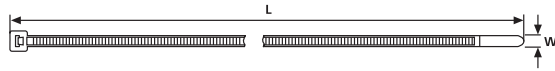
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Standard Cable Ties- Specialty Materials

### T18 -T50 Series - Flame Retardant

HellermannTyton's flame retardant cable ties meet the UL 94V0 flammability requirements.

| Material Data         |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 V0 (PA66V0)</b>                       |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V0</b>                                         |



| Product Selection |           |      |                       |       |            |       |               |       |           |       |       |           |
|-------------------|-----------|------|-----------------------|-------|------------|-------|---------------|-------|-----------|-------|-------|-----------|
| Article No.       | Part No.  | Type | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |       | Width (W) |       | Color | Pkg. Qty. |
|                   |           |      | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm)  | in.       | (mm)  |       |           |
| T18R              |           |      |                       |       |            |       |               |       |           |       |       |           |
| 111-01834         | T18R9VOC2 | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22)  | .10"      | (2.5) | White | 100       |
| 111-01835         | T18R9VOM4 | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22)  | .10"      | (2.5) | White | 1000      |
| 111-01833         | T18R0VOC2 | T18R | 18 lbs                | (80)  | 4"         | (100) | .87"          | (22)  | .10"      | (2.5) | Black | 100       |
| T18I              |           |      |                       |       |            |       |               |       |           |       |       |           |
| 111-02304         | T18I9VOM4 | T18I | 18 lbs                | (80)  | 5.5"       | (144) | 1.38"         | (35)  | .10"      | (2.5) | White | 1000      |
| T18L              |           |      |                       |       |            |       |               |       |           |       |       |           |
| 111-02045         | T18L9VOC2 | T18L | 18 lbs                | (80)  | 7.95"      | (202) | 2.17"         | (55)  | .10"      | (2.5) | White | 100       |
| 111-02046         | T18L9VOM4 | T18L | 18 lbs                | (80)  | 7.95"      | (202) | 2.17"         | (55)  | .10"      | (2.5) | White | 1000      |
| 111-02044         | T18L0VOC2 | T18L | 18 lbs                | (80)  | 7.95"      | (202) | 2.17"         | (55)  | .10"      | (2.5) | Black | 100       |
| T30R              |           |      |                       |       |            |       |               |       |           |       |       |           |
| 111-03073         | T30R9VOC2 | T30R | 30 lbs                | (135) | 5.83"      | (148) | 1.38"         | (35)  | .14"      | (3.6) | White | 100       |
| 111-03074         | T30R9VOM4 | T30R | 30 lbs                | (135) | 5.83"      | (148) | 1.38"         | (35)  | .14"      | (3.6) | White | 1000      |
| 111-03072         | T30R0VOC2 | T30R | 30 lbs                | (135) | 5.83"      | (148) | 1.38"         | (35)  | .14"      | (3.6) | Black | 100       |
| T50R              |           |      |                       |       |            |       |               |       |           |       |       |           |
| 111-04909         | T50R9VOC2 | T50R | 50 lbs                | (225) | 7.95"      | (202) | 1.97"         | (50)  | .18"      | (4.6) | White | 100       |
| 111-04911         | T50R9VOM4 | T50R | 50 lbs                | (225) | 7.95"      | (202) | 1.97"         | (50)  | .18"      | (4.6) | White | 1000      |
| 111-04887         | T50R0VOC2 | T50R | 50 lbs                | (225) | 7.95"      | (202) | 1.97"         | (50)  | .18"      | (4.6) | Black | 100       |
| 111-04908         | T50R0VOM4 | T50R | 50 lbs                | (225) | 7.95"      | (202) | 1.97"         | (50)  | .18"      | (4.6) | Black | 1000      |
| T50I              |           |      |                       |       |            |       |               |       |           |       |       |           |
| 111-05254         | T50I9VOC2 | T50I | 50 lbs                | (225) | 11.82"     | (300) | 3.35"         | (85)  | .18"      | (4.6) | White | 100       |
| 111-05255         | T50I9VOM4 | T50I | 50 lbs                | (225) | 11.82"     | (300) | 3.35"         | (85)  | .18"      | (4.6) | White | 1000      |
| 111-05258         | T50I0VOC2 | T50I | 50 lbs                | (225) | 11.82"     | (300) | 3.35"         | (85)  | .18"      | (4.6) | Black | 100       |
| T50L              |           |      |                       |       |            |       |               |       |           |       |       |           |
| 111-05438         | T50L9VOC2 | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .19"      | (4.7) | White | 100       |
| 111-05476         | T50L9VOM4 | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .19"      | (4.7) | White | 1000      |
| 111-05475         | T50L0VOC2 | T50L | 50 lbs                | (225) | 15.35"     | (390) | 4.33"         | (110) | .19"      | (4.7) | Black | 100       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



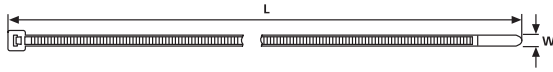
## Cable Ties

## Standard Cable Ties- Specialty Materials

### T18 -T120 Series - Polypropylene

HellermannTyton's polypropylene cable ties offer added resistance to most chemicals.

| Material Data         |                                                         |
|-----------------------|---------------------------------------------------------|
| Material              | <b>Polypropylene (PP)</b>                               |
| Operating Temperature | <b>-40 °F to +239 °F (-40 °C to +115 °C) continuous</b> |
| Flammability          | <b>UL94 HB</b>                                          |



| Product Selection |                   |       | Min. Tensile Strength | Length (L)   | Max. Ø Bundle | Width (W)  | Color   | Pkg. Qty. |
|-------------------|-------------------|-------|-----------------------|--------------|---------------|------------|---------|-----------|
| Article No.       | Part No.          | Type  |                       |              |               |            |         |           |
|                   |                   |       | lbs. (N)              | in. (mm)     | in. (mm)      | in. (mm)   |         |           |
| <b>T18R</b>       |                   |       |                       |              |               |            |         |           |
| 111-01921         | <b>T18R9PPC2</b>  | T18R  | 11 lbs (49)           | 4" (100)     | .75" (19)     | .10" (2.5) | Natural | 100       |
| 111-01922         | <b>T18R9PPM4</b>  | T18R  | 11 lbs (49)           | 4" (100)     | .75" (19)     | .10" (2.5) | Natural | 1000      |
| 111-01917         | <b>T18R0PPC2</b>  | T18R  | 11 lbs (49)           | 4" (100)     | .75" (19)     | .10" (2.5) | Black   | 100       |
| 111-01918         | <b>T18R0PPM4</b>  | T18R  | 11 lbs (49)           | 4" (100)     | .75" (19)     | .10" (2.5) | Black   | 1000      |
| <b>T30R</b>       |                   |       |                       |              |               |            |         |           |
| 111-03017         | <b>T30R9PPC2</b>  | T30R  | 20 lbs (89)           | 5.83" (148)  | 1.26" (32)    | .14" (3.6) | Natural | 100       |
| <b>T50R</b>       |                   |       |                       |              |               |            |         |           |
| 111-04931         | <b>T50R9PPC2</b>  | T50R  | 30 lbs (133)          | 8.0" (203.8) | 1.75" (44.5)  | .19" (4.7) | Natural | 100       |
| 111-04928         | <b>T50R0PPC2</b>  | T50R  | 30 lbs (133)          | 8.0" (203.8) | 1.75" (44.5)  | .19" (4.7) | Black   | 100       |
| 111-04929         | <b>T50R0PPM4</b>  | T50R  | 30 lbs (133)          | 8.0" (203.8) | 1.75" (44.5)  | .19" (4.7) | Black   | 1000      |
| <b>T50I</b>       |                   |       |                       |              |               |            |         |           |
| 111-05262         | <b>T50I9PPM4</b>  | T50I  | 30 lbs (133)          | 11.8" (300)  | 3.35" (85)    | .18" (4.6) | Natural | 1000      |
| <b>T50L</b>       |                   |       |                       |              |               |            |         |           |
| 111-05483         | <b>T50L9PPM4</b>  | T50L  | 30 lbs (133)          | 15.35" (390) | 4.33" (110)   | .18" (4.7) | Natural | 1000      |
| 111-05482         | <b>T50L0PPC2</b>  | T50L  | 30 lbs (133)          | 15.35" (390) | 4.33" (110)   | .18" (4.7) | Black   | 100       |
| <b>T120R</b>      |                   |       |                       |              |               |            |         |           |
| 111-12067         | <b>T120R0PPK2</b> | T120R | 60 lbs (267)          | 15.35" (390) | 4.13" (105)   | .30" (7.6) | Black   | 50        |
| 111-12066         | <b>T120R0PPH4</b> | T120R | 60 lbs (267)          | 15.35" (390) | 4.13" (105)   | .30" (7.6) | Black   | 500       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P.

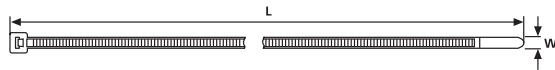
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties for Plenum Applications

HellermannTyton halar and U.L. Listed cable ties meet NEC regulations and can be used in applications where low smoke and low flame are a concern in air handling spaces.

### Halar Cable Ties

The raw material used to manufacture HellermannTyton halar cable ties is UL 94V0 rated. The halar ties come in a distinct color of red for easy identification.



#### Material Data

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Material              | PA66HL                                               |
| Operating Temperature | -104 °F to +300 °F<br>(-76 °C to +150 °C) continuous |
| Flammability          | UL94 V0                                              |



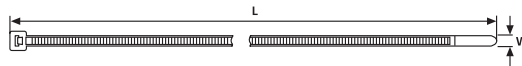
#### Product Selection

| Article No. | Part No.    | Type  | Min. Tensile Strength | Length (L) |          | Max. Ø Bundle |          | Width (W) |          | Color | Pkg. Qty. |
|-------------|-------------|-------|-----------------------|------------|----------|---------------|----------|-----------|----------|-------|-----------|
|             |             |       | lbs. (N)              | in. (mm)   | in. (mm) | in. (mm)      | in. (mm) | in. (mm)  | in. (mm) |       |           |
| 111-01900   | T18R2HALC2  | T18R  | 14 lbs (80)           | 4"         | (100)    | .87"          | (22)     | .10"      | (2.45)   | Red   | 100       |
| 111-01902   | T18R2HALM4  | T18R  | 14 lbs (80)           | 4"         | (100)    | .87"          | (22)     | .10"      | (2.45)   | Red   | 1000      |
| 111-04895   | T50R2HALC2  | T50R  | 40 lbs (177.9)        | 8.0"       | (203.2)  | 1.75"         | (44.45)  | .176"     | (4.5)    | Red   | 100       |
| 111-04897   | T50R2HALM4  | T50R  | 40 lbs (177.9)        | 8.0"       | (203.2)  | 1.75"         | (44.45)  | .176"     | (4.5)    | Red   | 1000      |
| 111-12056   | T120R2HALK2 | T120R | 80 lbs (355.9)        | 15.5"      | (394.4)  | 4.0"          | (101.6)  | .31"      | (7.8)    | Red   | 50        |
| 111-12055   | T120R2HALH4 | T120R | 80 lbs (355.9)        | 15.5"      | (394.4)  | 4.0"          | (101.6)  | .31"      | (7.8)    | Red   | 500       |

Note: Halar ties are also available in natural color. Contact HellermannTyton for availability. Halar is a registered trademark of Solvay S.A.

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## UL Rated Cable Ties



#### Material Data

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



File# E64139



File# E64139

#### Product Selection

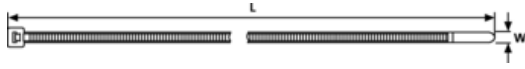
| Article No. | Part No.  | Type | Min. Tensile Strength | Length (L) |          | Max. Ø Bundle |          | Width (W) |          | Color   | Pkg. Qty. |
|-------------|-----------|------|-----------------------|------------|----------|---------------|----------|-----------|----------|---------|-----------|
|             |           |      | lbs. (N)              | in. (mm)   | in. (mm) | in. (mm)      | in. (mm) | in. (mm)  | in. (mm) |         |           |
| 111-00508   | T18R9C2UL | T18R | 18 lbs (80)           | 4"         | (100)    | .86"          | (22)     | .10"      | (2.5)    | Natural | 100       |
| 111-00509   | T18R9M4UL | T18R | 18 lbs (80)           | 4"         | (100)    | .86"          | (22)     | .10"      | (2.5)    | Natural | 1000      |
| 111-00510   | T18R2C2UL | T18R | 18 lbs (80)           | 4"         | (100)    | .86"          | (22)     | .10"      | (2.5)    | Red     | 100       |
| 111-00511   | T18R2M4UL | T18R | 18 lbs (80)           | 4"         | (100)    | .86"          | (22)     | .10"      | (2.5)    | Red     | 1000      |
| 111-00512   | T50R9C2UL | T50R | 50 lbs (225)          | 7.9"       | (200)    | 1.97"         | (50)     | .18"      | (4.6)    | Natural | 100       |
| 111-00513   | T50R9M4UL | T50R | 50 lbs (225)          | 7.9"       | (200)    | 1.97"         | (50)     | .18"      | (4.6)    | Natural | 1000      |
| 111-00514   | T50R2C2UL | T50R | 50 lbs (225)          | 7.9"       | (200)    | 1.97"         | (50)     | .18"      | (4.6)    | Red     | 100       |
| 111-00515   | T50R2M4UL | T50R | 50 lbs (225)          | 7.9"       | (200)    | 1.97"         | (50)     | .18"      | (4.6)    | Red     | 1000      |
| 111-00516   | T50I9C2UL | T50I | 50 lbs (225)          | 11.8"      | (300)    | 3.35"         | (85)     | .18"      | (4.6)    | Natural | 100       |
| 111-00517   | T50I9M4UL | T50I | 50 lbs (225)          | 11.8"      | (300)    | 3.35"         | (85)     | .18"      | (4.6)    | Natural | 1000      |
| 111-00518   | T50I2C2UL | T50I | 50 lbs (225)          | 11.8"      | (300)    | 3.35"         | (85)     | .18"      | (4.6)    | Red     | 100       |
| 111-00519   | T50I2M4UL | T50I | 50 lbs (225)          | 11.8"      | (300)    | 3.35"         | (85)     | .18"      | (4.6)    | Red     | 1000      |
| 111-00520   | T50L9C2UL | T50L | 50 lbs (225)          | 15.35"     | (390)    | 4.33"         | (110)    | .18"      | (4.6)    | Natural | 100       |
| 111-00521   | T50L9M4UL | T50L | 50 lbs (225)          | 15.35"     | (390)    | 4.33"         | (110)    | .18"      | (4.6)    | Natural | 1000      |
| 111-00522   | T50L2C2UL | T50L | 50 lbs (225)          | 15.35"     | (390)    | 4.33"         | (110)    | .18"      | (4.6)    | Red     | 100       |
| 111-00523   | T50L2M4UL | T50L | 50 lbs (225)          | 15.35"     | (390)    | 4.33"         | (110)    | .18"      | (4.6)    | Red     | 1000      |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties

### Tefzel® Cable Ties

Tefzel ties provide excellent protection against radiation, ultraviolet light, and a wide range of chemicals. They are also rated for low outgassing applications. HellermannTyton's Tefzel ties come in a standard color of blue for easy identification.



#### Material Data

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Material              | <b>Ethylentetrafluoroethylene - Tefzel (E/TFE)</b>           |
| Operating Temperature | <b>-112 °F to +302 °F<br/>(-80 °C to +150 °C) continuous</b> |
| Flammability          | <b>UL94 V0</b>                                               |



#### Product Selection

| Article No. | Part No.          | Type    | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |       | Width (W) |       | Color | Pkg. Qty. |
|-------------|-------------------|---------|-----------------------|-------|------------|-------|---------------|-------|-----------|-------|-------|-----------|
|             |                   |         | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm)  | in.       | (mm)  |       |           |
| 111-01923   | <b>T18R6TZC2</b>  | T18R(U) | 9.0 lbs               | (40)  | 4"         | (100) | .87"          | (22)  | .10"      | (2.5) | Blue  | 100       |
| 111-01924   | <b>T18R6TZM4</b>  | T18R(U) | 9.0 lbs               | (40)  | 4"         | (100) | .87"          | (22)  | .10"      | (2.5) | Blue  | 1000      |
| 111-05026   | <b>T50R6TZC2</b>  | T50R(U) | 35.5 lbs              | (158) | 8"         | (200) | 1.75"         | (50)  | .18"      | (4.6) | Blue  | 100       |
| 111-04933   | <b>T50R6TZM4</b>  | T50R(U) | 35.5 lbs              | (158) | 8"         | (200) | 1.75"         | (50)  | .18"      | (4.6) | Blue  | 1000      |
| 111-12026   | <b>T120R6TZK2</b> | T120R   | 70 lbs                | (311) | 15"        | (380) | 4.0"          | (100) | .30"      | (7.6) | Blue  | 50        |

Tefzel is a registered trademark of E.I. DuPont Corporation. Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### Outside Serrated Cable Ties

The outside serrated cable ties are for specific applications where thin walled or soft insulation is used (such as in aircraft, trains, etc.) and for applications that are very sensitive to the amount of force applied to the cable.



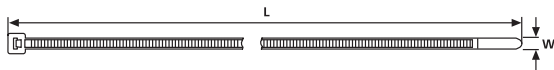
#### Material Data

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 heat stabilized (PA66HS)</b>               |
| Operating Temperature | <b>-40 °F to +221 °F<br/>(-40 °C to +105 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                              |



Outside serrated cable ties are also available in natural.

Contact HellermannTyton for more information.



#### Product Selection

| Article No. | Part No.         | Type   | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |       | Width (W) |       | Color | Pkg. Qty. |
|-------------|------------------|--------|-----------------------|-------|------------|-------|---------------|-------|-----------|-------|-------|-----------|
|             |                  |        | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm)  | in.       | (mm)  |       |           |
| 118-04700   | <b>118-04700</b> | T18ROS | 18 lbs                | (80)  | 3.94"      | (100) | .79"          | (20)  | .10"      | (2.5) | Black | 100       |
| 118-04800   | <b>118-04800</b> | T30ROS | 30 lbs                | (135) | 5.71"      | (145) | 1.34"         | (35)  | .13"      | (3.4) | Black | 100       |
| 118-04900   | <b>118-04900</b> | T30LOS | 30 lbs                | (135) | 7.87"      | (200) | 2.0"          | (50)  | .13"      | (3.4) | Black | 100       |
| 118-05850   | <b>118-05850</b> | T50SOS | 50 lbs                | (225) | 5.9"       | (150) | 1.38"         | (35)  | .18"      | (4.6) | Black | 100       |
| 118-05050   | <b>118-05050</b> | T50ROS | 50 lbs                | (225) | 8"         | (200) | 1.95"         | (50)  | .18"      | (4.6) | Black | 100       |
| 118-05900   | <b>118-05900</b> | T50LOS | 50 lbs                | (225) | 15"        | (384) | 4.29"         | (110) | .18"      | (4.6) | Black | 100       |

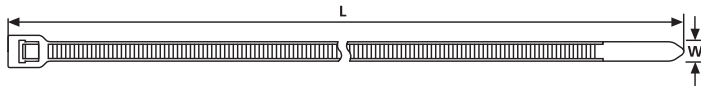
Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Releasable Ties

The extended pawl allows for simple and quick release of the ties. Perfect for prototype construction and service requiring the addition of wires on existing harnesses.

### Material Data

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                                |
| Operating Temperature | <b>-40 °F to +185 °F<br/>(-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                             |



RT40R



RT50S and RT50LL

**CALUS**  
File# E64139

| Product Selection |           |        | Min. Tensile Strength | Length (L)  | Max. Ø Bundle | Width (W)  |         |      |
|-------------------|-----------|--------|-----------------------|-------------|---------------|------------|---------|------|
| Article No.       | Part No.  | Type   |                       |             |               |            |         |      |
| RT40R             |           |        |                       |             |               |            |         |      |
| 115-06219         | RT40R9C2  | RT40R  | 34 lbs (150)          | 8.46" (215) | 2.0" (51)     | .16" (4.0) | Natural | 100  |
| 115-06204         | RT40R9M4  | RT40R  | 34 lbs (150)          | 8.46" (215) | 2.0" (51)     | .16" (4.0) |         | 1000 |
| 115-06200         | RT40R0C2  | RT40R  | 34 lbs (150)          | 8.46" (215) | 2.0" (51)     | .16" (4.0) | Black   | 100  |
| 115-06202         | RT40R0M4  | RT40R  | 34 lbs (150)          | 8.46" (215) | 2.0" (51)     | .16" (4.0) |         | 1000 |
| RT50S             |           |        |                       |             |               |            |         |      |
| 115-06319         | RT50S9C2  | RT50S  | 50 lbs (225)          | 6.5" (165)  | 1.38" (35)    | .18" (4.6) | Natural | 100  |
| 115-06304         | RT50S9M4  | RT50S  | 50 lbs (225)          | 6.5" (165)  | 1.38" (35)    | .18" (4.6) |         | 1000 |
| 115-06300         | RT50S0C2  | RT50S  | 50 lbs (225)          | 6.5" (165)  | 1.38" (35)    | .18" (4.6) | Black   | 100  |
| 115-00035         | RT50S0M4  | RT50S  | 50 lbs (225)          | 6.5" (165)  | 1.38" (35)    | .18" (4.6) |         | 1000 |
| RT50LL            |           |        |                       |             |               |            |         |      |
| 115-06102         | RT50LL9C2 | RT50LL | 50 lbs (225)          | 15" (380)   | 3.98" (101)   | .18" (4.6) | Natural | 100  |
| 115-06104         | RT50LL9M4 | RT50LL | 50 lbs (225)          | 15" (380)   | 3.98" (101)   | .18" (4.6) |         | 1000 |
| 115-00039         | RT50LL0C2 | RT50LL | 50 lbs (225)          | 15" (380)   | 3.98" (101)   | .18" (4.6) | Black   | 100  |
| 115-06101         | RT50LL0M4 | RT50LL | 50 lbs (225)          | 15" (380)   | 3.98" (101)   | .18" (4.6) |         | 1000 |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties

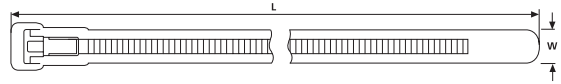
## REL Releasable Ties

Ideal for use in applications where there is the need to repeatedly open and close the tie.



## Material Data

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



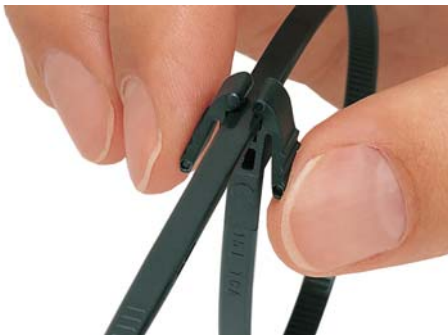
## Product Selection

| Article No. | Part No.  | Type   | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |      | Width (W) |       | Color   | Pkg. Qty. |
|-------------|-----------|--------|-----------------------|-------|------------|-------|---------------|------|-----------|-------|---------|-----------|
|             |           |        | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm) | in.       | (mm)  |         |           |
| REL50R      |           |        |                       |       |            |       |               |      |           |       |         |           |
| 115-00503   | REL50R9C2 | REL50R | 50 lbs                | (225) | 5.5"       | (140) | 1.38"         | (35) | .29"      | (7.4) | Natural | 100       |
| 115-00505   | REL50R9L4 | REL50R | 50 lbs                | (225) | 5.5"       | (140) | 1.38"         | (35) | .29"      | (7.4) |         | 200       |
| 115-00500   | REL50R0C2 | REL50R | 50 lbs                | (225) | 5.5"       | (140) | 1.38"         | (35) | .29"      | (7.4) | Black   | 100       |
| 115-00502   | REL50R0L4 | REL50R | 50 lbs                | (225) | 5.5"       | (140) | 1.38"         | (35) | .29"      | (7.4) |         | 200       |
| REL50L      |           |        |                       |       |            |       |               |      |           |       |         |           |
| 115-00605   | REL50L9C2 | REL50L | 50 lbs                | (225) | 9.84"      | (250) | 2.76"         | (70) | .29"      | (7.4) | Natural | 100       |
| 115-00607   | REL50L9L4 | REL50L | 50 lbs                | (225) | 9.84"      | (250) | 2.76"         | (70) | .29"      | (7.4) |         | 200       |
| 115-00600   | REL50L0C2 | REL50L | 50 lbs                | (225) | 9.84"      | (250) | 2.76"         | (70) | .29"      | (7.4) | Black   | 100       |
| 115-00602   | REL50L0L4 | REL50L | 50 lbs                | (225) | 9.84"      | (250) | 2.76"         | (70) | .29"      | (7.4) |         | 200       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

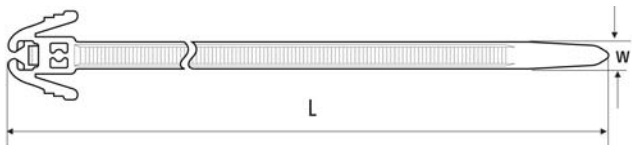
## Pinch Releasable Ties

Patented pinch release mechanism for easy handling allows tie to be released using one hand.



## Material Data

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



## Product Selection

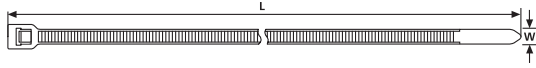
| Article No. | Part No.           | Type   | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |      | Width (W) |       | Color | Pkg. Qty. |
|-------------|--------------------|--------|-----------------------|-------|------------|-------|---------------|------|-----------|-------|-------|-----------|
|             |                    |        | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm) | in.       | (mm)  |       |           |
| 115-40200   | <b>REZ200.NB3P</b> | REZ200 | 30 lbs                | (135) | 7.88"      | (200) | 1.97"         | (50) | .19"      | (4.7) | Black | 100       |
| 115-40300   | <b>REZ300.NB3P</b> | REZ300 | 30 lbs                | (135) | 12.00"     | (305) | 3.15"         | (80) | .19"      | (4.7) | Black | 100       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Heavy Duty Releasable Cable Ties

The RT150 and RT250 heavy duty releasable cable ties feature an extended pawl which allows for simple and quick release of the ties.

### RT150 Heavy Duty Releasable Cable Ties



#### Material Data

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                                      |
| Operating Temperature | <b>-40 °F to +185 °F</b><br><b>(-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                                   |

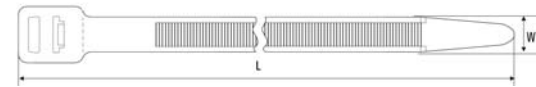


#### Product Selection

| Article No. | Part No.           | Type     | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |       | Width (W) |       | Color | Pkg. Qty. |
|-------------|--------------------|----------|-----------------------|-------|------------|-------|---------------|-------|-----------|-------|-------|-----------|
|             |                    |          | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm)  | in.       | (mm)  |       |           |
| 115-00036   | <b>RT150REP0X2</b> | RT150REP | 175 lbs               | (780) | 15.35"     | (390) | 4"            | (105) | .346"     | (8.8) | Black | 25        |
| 115-00037   | <b>RT150MEP0X2</b> | RT150MEP | 175 lbs               | (780) | 21.06"     | (535) | 5.90"         | (150) | .346"     | (8.8) | Black | 25        |
| 115-00038   | <b>RT150LEP0X2</b> | RT150LEP | 175 lbs               | (780) | 32.28"     | (820) | 9.65"         | (245) | .346"     | (8.8) | Black | 25        |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### RT250 Heavy Duty Releasable Cable Ties



#### Material Data

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                                      |
| Operating Temperature | <b>-40 °F to +185 °F</b><br><b>(-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                                   |



File# E64139

#### Product Selection

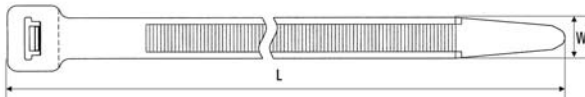
| Product Selection |            |         | Min. Tensile Strength |        | Length (L) |          | Max. Ø Bundle |         | Width (W) |         |         |           |
|-------------------|------------|---------|-----------------------|--------|------------|----------|---------------|---------|-----------|---------|---------|-----------|
| Article No.       | Part No.   | Type    |                       |        |            |          |               |         |           |         | Color   | Pkg. Qty. |
|                   |            |         | lbs.                  | (N)    | in.        | (mm)     | in.           | (mm)    | in.       | (mm)    |         |           |
| RT250S            |            |         |                       |        |            |          |               |         |           |         |         |           |
| 131-75819         | RT250S9X2  | RT250S  | 250 lbs               | (1115) | 9.05"      | (230)    | 2.17"         | (55)    | .49"      | (12.5 ) | Natural | 25        |
| 115-41800         | RT250S0X2  | RT250S  | 250 lbs               | (1115) | 9.05"      | (230)    | 2.17"         | (55)    | .49"      | (12.5 ) | Black   | 25        |
| RT250R            |            |         |                       |        |            |          |               |         |           |         |         |           |
| 131-75019         | RT250R9X2  | RT250R  | 250 lbs               | (1115) | 20.47"     | (520)    | 5.71"         | (145)   | .49"      | (12.5)  | Natural | 25        |
| 115-41300         | RT250R0X2  | RT250R  | 250 lbs               | (1115) | 20.47"     | (520)    | 5.71"         | (145)   | .49"      | (12.5 ) | Black   | 25        |
| RT250M            |            |         |                       |        |            |          |               |         |           |         |         |           |
| 131-75619         | RT250M9X2  | RT250M  | 250 lbs               | (1115) | 22.24"     | (565)    | 5.90"         | (150)   | .49"      | (12.5 ) | Natural | 25        |
| 131-75610         | RT250M0X2  | RT250M  | 250 lbs               | (1115) | 22.24"     | (565)    | 5.90"         | (150)   | .49"      | (12.5 ) | Black   | 25        |
| RT250I            |            |         |                       |        |            |          |               |         |           |         |         |           |
| 131-75219         | RT250I9X2  | RT250I  | 250 lbs               | (1115) | 28.54"     | (725)    | 8.00"         | (203)   | .49"      | (12.5 ) | Natural | 25        |
| 115-41401         | RT250I0X2  | RT250I  | 250 lbs               | (1115) | 28.54"     | (725)    | 8.00"         | (203)   | .49"      | (12.5 ) | Black   | 25        |
| RT250L            |            |         |                       |        |            |          |               |         |           |         |         |           |
| 131-75419         | RT250L9X2  | RT250L  | 250 lbs               | (1115) | 34.65"     | (880)    | 10.00"        | (254)   | .49"      | (12.5)  | Natural | 25        |
| 115-41500         | RT250L0X2  | RT250L  | 250 lbs               | (1115) | 34.65"     | (880)    | 10.00"        | (254)   | .49"      | (12.5 ) | Black   | 25        |
| RT250XL           |            |         |                       |        |            |          |               |         |           |         |         |           |
| 131-75519         | RT250XL9X2 | RT250XL | 250 lbs               | (1115) | 40"        | (1016.0) | 12"           | (304.8) | .49"      | (12.5 ) | Natural | 25        |
| 131-75510         | RT250XL0X2 | RT250XL | 250 lbs               | (1115) | 40"        | (1016.0) | 12"           | (304.8) | .49"      | (12.5 ) | Black   | 25        |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

# Cable Ties

## Heavy Duty Releasable Cable Ties RT255 Heavy Duty Releasable Ties

| Material Data         |                                                                 | RoHS |
|-----------------------|-----------------------------------------------------------------|------|
| Material              | Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS) |      |
| Operating Temperature | -40 °F to +230 °F (-40 °C to +110 °C) continuous                |      |
| Flammability          | UL94 HB                                                         |      |



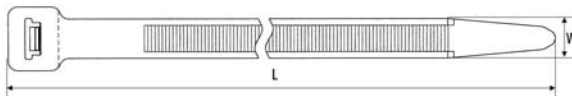
| Product Selection |              |        | Min. Tensile Strength |        | Length (L) |       | Max. Ø Bundle |       | Width (W) |        | Color | Pkg. Qty. |
|-------------------|--------------|--------|-----------------------|--------|------------|-------|---------------|-------|-----------|--------|-------|-----------|
| Article No.       | Part No.     | Type   | lbs.                  | (N)    | in.        | (mm)  | in.           | (mm)  | in.       | (mm)   |       |           |
| 115-01200         | RT255S0HIRX2 | RT255S | 250 lbs               | (1112) | 8.86"      | (225) | 2.16"         | (55)  | .49"      | (12.5) | Black | 25        |
| 115-01300         | RT255R0HIRX2 | RT255R | 250 lbs               | (1112) | 20.28"     | (515) | 5.71"         | (145) | .49"      | (12.5) | Black | 25        |
| 115-01400         | RT255M0HIRX2 | RT255M | 250 lbs               | (1112) | 22.05"     | (560) | 6.30"         | (160) | .49"      | (12.5) | Black | 25        |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## SR255 Heavy Duty Sub-Releasable Ties

The SR255 series releasable heavy duty cable tie offers a release that is lower than the head of the cable tie, facilitating easy installation with the use of a HellermannTyton cable tie tool.

| Material Data         |                                                                 | RoHS |
|-----------------------|-----------------------------------------------------------------|------|
| Material              | Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS) |      |
| Operating Temperature | -40 °F to +230 °F (-40 °C to +110 °C) continuous                |      |
| Flammability          | UL94 HB                                                         |      |



| Product Selection |                 |        | Min. Tensile Strength |        | Length (L) |       | Max. Ø Bundle |       | Width (W) |        | Color | Pkg. Qty. |
|-------------------|-----------------|--------|-----------------------|--------|------------|-------|---------------|-------|-----------|--------|-------|-----------|
| Article No.       | Part No.        | Type   | lbs.                  | (N)    | in.        | (mm)  | in.           | (mm)  | in.       | (mm)   |       |           |
| 115-42002         | SR255S0HIHSUVX2 | SR255S | 250 lbs               | (1112) | 8.86"      | (225) | 2.16"         | (50)  | .49"      | (12.5) | Black | 25        |
| 115-42101         | SR255X0HIHSUVX2 | SR255X | 250 lbs               | (1112) | 14"        | (372) | 3.94"         | (100) | .49"      | (12.5) | Black | 25        |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



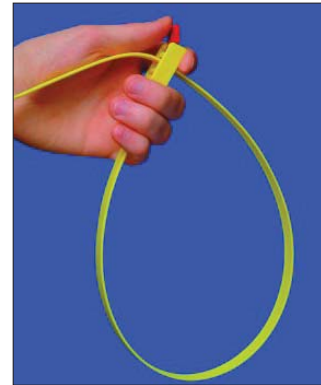
## Speedy Tie

An entirely new design in cable management, the SpeedyTie is a fully re-usable, easily releasable lashing tie. The SpeedyTie's unique design allows it to be released with one hand.

- Just one click to tie and untie
- Fully re-usable
- Once applied, the tail can be neatly tucked away for added safety
- Highly visible yellow color — also available in black, high impact modified material
- Versatile design allows use for multiple applications

The SpeedyTie is a versatile tool for countless applications:

- Electrical Contractors
- Heating & Ventilation Contractors
- Residential Construction
- General and Heavy Industry
- Packaging
- Tubing and Pipe Bundling
- An "Extra Hand" for Overhead Installations
- In Plant Transfer of Products



SpeedyTie - Quick and easy.



Speedy Tie is particularly suited for temporary but safe bundling or fixing.

| Material Data         |                                                            |
|-----------------------|------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                                |
| Color                 | <b>Yellow , Red</b>                                        |
| Operating Temperature | <b>-40 °F to +185 °F<br/>(-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                             |



### Packaging Configurations

#### Distributor Packs

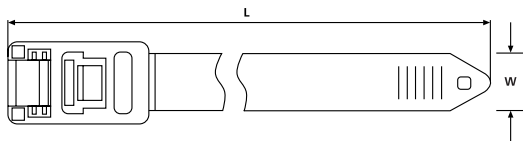
- Printed bag with a hang hole
- Display box
- 60 SpeedyTies - 12 bags of 5

#### OEM Packs

- Plain bag (no hang hole)
- Standard box
- 300 SpeedyTies - 12 bags of 25



Distributor Pack - point of purchase display for the SpeedyTie.



| Product Selection |                       |          | Description                                  | Min. Tensile Strength |       | Length (L)   | Max. Ø Bundle | Width (W) | Pkg. Qty. | Carton Qty. |
|-------------------|-----------------------|----------|----------------------------------------------|-----------------------|-------|--------------|---------------|-----------|-----------|-------------|
| Article No.       | Part No.              | Type     |                                              | lbs.                  | (N)   |              |               |           |           |             |
| 115-00001         | <b>RTT750HR.NX900</b> | RTT750HR | Distributor Pack - order in carton qty. only | 200 lbs               | (888) | 29.52" (750) | 8.27" (210)   | .51" (13) | 5         | 60          |
| 115-00000         | <b>RTT750HR.NX1P</b>  | RTT750HR | OEM Pack - order in carton qty. only         | 200 lbs               | (888) | 29.52" (750) | 8.27" (210)   | .51" (13) | 25        | 300         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties

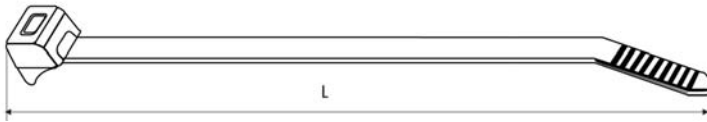
### Clamp Ties

The clamp tie has triangular shaped tabs extending beneath the head, allowing for optimal surface contact and complete circumferential compression to 360 degrees. The clamps are recommended for soft rubber hose applications including fuel, water, and air vacuum lines.



| Material Data         |                                                 | RoHS |
|-----------------------|-------------------------------------------------|------|
| Color                 | Natural                                         |      |
| Material              | Polyamide 6.6 (PA66)                            |      |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |      |
| Flammability          | UL94 V2                                         |      |

| Material Data         |                                                  | RoHS |
|-----------------------|--------------------------------------------------|------|
| Color                 | Black                                            |      |
| Material              | Polyamide 6.6 heat stabilized (PA66HS)           |      |
| Operating Temperature | -40 °F to +221 °F (-40 °C to +105 °C) continuous |      |
| Flammability          | UL94 V2                                          |      |



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File# E64139

File# E64139

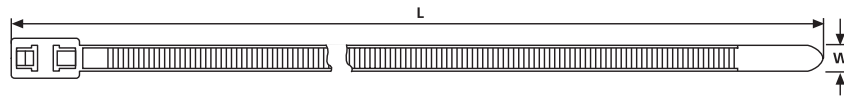
| Product Selection |             |        |                       |       |            |       |               |      |           |       |         |           |
|-------------------|-------------|--------|-----------------------|-------|------------|-------|---------------|------|-----------|-------|---------|-----------|
| Article No.       | Part No.    | Type   | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |      | Width (W) |       | Color   | Pkg. Qty. |
|                   |             |        | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm) | in.       | (mm)  |         |           |
| CTT20R            |             |        |                       |       |            |       |               |      |           |       |         |           |
| 112-51919         | CTT20R9C2   | CTT20R | 20 lbs                | (90)  | 4"         | (100) | .50"          | (13) | .10"      | (2.5) | Natural | 100       |
| 112-51904         | CTT20R9M4   | CTT20R | 20 lbs                | (90)  | 4"         | (100) | .50"          | (13) | .10"      | (2.5) |         | 1000      |
| 112-51905         | CTT20R0HSC2 | CTT20R | 20 lbs                | (90)  | 4"         | (100) | .50"          | (13) | .10"      | (2.5) | Black   | 100       |
| 112-51960         | CTT20R0HSM4 | CTT20R | 20 lbs                | (90)  | 4"         | (100) | .50"          | (13) | .10"      | (2.5) |         | 1000      |
| CTT60R            |             |        |                       |       |            |       |               |      |           |       |         |           |
| 112-52104         | CTT60R9C2   | CTT60R | 60 lbs                | (265) | 8"         | (205) | 1.77"         | (45) | .19"      | (4.7) | Natural | 100       |
| 112-52106         | CTT60R9M4   | CTT60R | 60 lbs                | (265) | 8"         | (205) | 1.77"         | (45) | .19"      | (4.7) |         | 1000      |
| 112-52112         | CTT60R0HSC2 | CTT60R | 60 lbs                | (265) | 8"         | (205) | 1.77"         | (45) | .19"      | (4.7) | Black   | 100       |
| 112-52114         | CTT60R0HSM4 | CTT60R | 60 lbs                | (265) | 8"         | (205) | 1.77"         | (45) | .19"      | (4.7) |         | 1000      |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Double Head Ties

Designed to harness two bundles simultaneously. The second loop may also serve as a positioning device for a single bundle.

| Material Data         |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



**CFUS**  
File# E64139

| Product Selection |           |        |                       |       |            |       |           |       |         |           |
|-------------------|-----------|--------|-----------------------|-------|------------|-------|-----------|-------|---------|-----------|
| Article No.       | Part No.  | Type   | Min. Tensile Strength |       | Length (L) |       | Width (W) |       | Color   | Pkg. Qty. |
|                   |           |        | lbs.                  | (N)   | in.        | (mm)  | in.       | (mm)  |         |           |
| T50SDH            |           |        |                       |       |            |       |           |       |         |           |
| 117-00016         | 117-00016 | T50SDH | 50 lbs                | (225) | 6.26"      | (159) | .19"      | (4.7) | Natural | 100       |
| 117-00017         | 117-00017 | T50SDH | 50 lbs                | (225) | 6.26"      | (159) | .19"      | (4.7) |         | 1000      |
| 117-00018         | 117-00018 | T50SDH | 50 lbs                | (225) | 6.26"      | (159) | .19"      | (4.7) | Black   | 100       |
| 117-00019         | 117-00019 | T50SDH | 50 lbs                | (225) | 6.26"      | (159) | .19"      | (4.7) |         | 1000      |
| T50RDH            |           |        |                       |       |            |       |           |       |         |           |
| 117-05006         | T50RDH9C2 | T50RDH | 50 lbs                | (225) | 8.25"      | (210) | .19"      | (4.7) | Natural | 100       |
| 117-05008         | T50RDH9M4 | T50RDH | 50 lbs                | (225) | 8.25"      | (210) | .19"      | (4.7) |         | 1000      |
| 117-05004         | T50RDH0C2 | T50RDH | 50 lbs                | (225) | 8.25"      | (210) | .19"      | (4.7) | Black   | 100       |
| 117-05005         | T50RDH0M4 | T50RDH | 50 lbs                | (225) | 8.25"      | (210) | .19"      | (4.7) |         | 1000      |
| T50IDH            |           |        |                       |       |            |       |           |       |         |           |
| 117-05302         | T50IDH9C2 | T50IDH | 50 lbs                | (225) | 12"        | (305) | .19"      | (4.7) | Natural | 100       |
| 117-05303         | T50IDH9M4 | T50IDH | 50 lbs                | (225) | 12"        | (305) | .19"      | (4.7) |         | 1000      |
| 117-05362         | T50IDH0C2 | T50IDH | 50 lbs                | (225) | 12"        | (305) | .19"      | (4.7) | Black   | 100       |
| 117-05300         | T50IDH0M4 | T50IDH | 50 lbs                | (225) | 12"        | (305) | .19"      | (4.7) |         | 1000      |
| T50LDH            |           |        |                       |       |            |       |           |       |         |           |
| 117-05402         | T50LDH9C2 | T50LDH | 50 lbs                | (225) | 15.5"      | (395) | .19"      | (4.7) | Natural | 100       |
| 117-05461         | T50LDH9M4 | T50LDH | 50 lbs                | (225) | 15.5"      | (395) | .19"      | (4.7) |         | 1000      |
| 117-05400         | T50LDH0C2 | T50LDH | 50 lbs                | (225) | 15.5"      | (395) | .19"      | (4.7) | Black   | 100       |
| 117-05401         | T50LDH0M4 | T50LDH | 50 lbs                | (225) | 15.5"      | (395) | .19"      | (4.7) |         | 1000      |

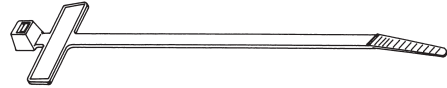
Maximum bundle diameter is variable due to double loops. Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

# Cable Ties

## Identification Ties

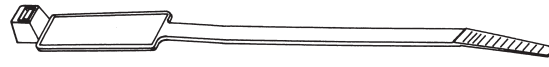
Tie and identify bundles of cable in one operation. Large flat area for imprinting or writing the required information. Hot stamping available, which is subject to minimums and lead times.



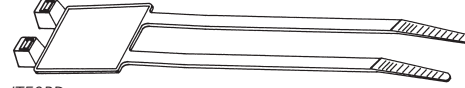
IT18R



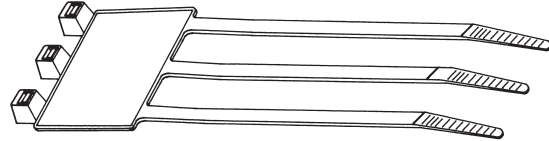
IT18FL



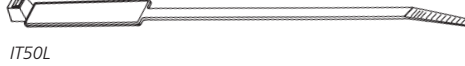
IT50R



IT50RD



IT50RT



IT50L

| Material Data         |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



HellermannTyton offers marking pens for use with the identification ties, see page 179.

File# E64139

| Product Selection |                                             |        |                     |                       |       |            |       |               |        |           |       |         |           |
|-------------------|---------------------------------------------|--------|---------------------|-----------------------|-------|------------|-------|---------------|--------|-----------|-------|---------|-----------|
| Article No.       | Part No.                                    | Type   | US Gov. Designation | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |        | Width (W) |       | Color   | Pkg. Qty. |
|                   |                                             |        |                     | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm)   | in.       | (mm)  |         |           |
| IT18R             | Marking Pad Size: .98" x .32" (25 x 8)      |        |                     |                       |       |            |       |               |        |           |       |         |           |
| 111-81819         | IT18R9C2                                    | IT18R  | MS3368-5-9E         | 18 lbs                | (80)  | 3.94"      | (100) | .75"          | (22.0) | .09"      | (2.3) | Natural | 100       |
| 111-81808         | IT18R9L4                                    | IT18R  | MS3368-5-9E         | 18 lbs                | (80)  | 3.94"      | (100) | .75"          | (22.0) | .09"      | (2.3) | Natural | 200       |
| 111-81801         | IT18R0C2                                    | IT18R  | *                   | 18 lbs                | (80)  | 3.94"      | (100) | .75"          | (22.0) | .09"      | (2.3) | Black   | 100       |
| 111-81803         | IT18R0L4                                    | IT18R  | *                   | 18 lbs                | (80)  | 3.94"      | (100) | .75"          | (22.0) | .09"      | (2.3) | Black   | 200       |
| IT18FL            | Marking Pad Size: .81" x .35" (20.5 x 9)    |        |                     |                       |       |            |       |               |        |           |       |         |           |
| 111-81919         | IT18FL9C2                                   | IT18FL | —                   | 18 lbs                | (80)  | 4.33"      | (110) | .75"          | (19.0) | .10"      | (2.5) | Natural | 100       |
| 111-81907         | IT18FL9L4                                   | IT18FL | —                   | 18 lbs                | (80)  | 4.33"      | (110) | .75"          | (19.0) | .10"      | (2.5) | Natural | 200       |
| 111-81910         | IT18FL0C2                                   | IT18FL | —                   | 18 lbs                | (80)  | 4.33"      | (110) | .75"          | (19.0) | .10"      | (2.5) | Black   | 100       |
| 111-81903         | IT18FL0L4                                   | IT18FL | —                   | 18 lbs                | (80)  | 4.33"      | (110) | .75"          | (19.0) | .10"      | (2.5) | Black   | 200       |
| IT50R             | Marking Pad Size: 1.10" x .51" (28 x 12.9)  |        |                     |                       |       |            |       |               |        |           |       |         |           |
| 111-85019         | IT50R9C2                                    | IT50R  | MS3368-1-9A         | 50 lbs                | (225) | 7.99"      | (203) | 1.75"         | (44.5) | .18"      | (4.6) | Natural | 100       |
| 111-85020         | IT50R9M4                                    | IT50R  | MS3368-1-9A         | 50 lbs                | (225) | 7.99"      | (203) | 1.75"         | (44.5) | .18"      | (4.6) | Natural | 1000      |
| 111-85011         | IT50R0C2                                    | IT50R  | *                   | 50 lbs                | (225) | 7.99"      | (203) | 1.75"         | (44.5) | .18"      | (4.6) | Black   | 100       |
| 111-85013         | IT50R0M4                                    | IT50R  | *                   | 50 lbs                | (225) | 7.99"      | (203) | 1.75"         | (44.5) | .18"      | (4.6) | Black   | 1000      |
| IT50RD            | Marking Pad Size: 1.14" x 1.04" (46 x 26.3) |        |                     |                       |       |            |       |               |        |           |       |         |           |
| 111-85219         | IT50RD9K2                                   | IT50RD | MS3368-3-9C         | 50 lbs                | (225) | 8.07"      | (205) | 1.73"         | (44.0) | .19"      | (4.7) | Natural | 50        |
| 111-85201         | IT50RD0K2                                   | IT50RD | *                   | 50 lbs                | (225) | 8.07"      | (205) | 1.73"         | (44.0) | .19"      | (4.7) | Black   | 50        |
| IT50RT            | Marking Pad Size: 1.18" x 1.04" (46 x 26.3) |        |                     |                       |       |            |       |               |        |           |       |         |           |
| 111-85119         | IT50RT9K2                                   | IT50RT | MS3368-4-9D         | 50 lbs                | (225) | 8.07"      | (205) | 1.73"         | (44.0) | .19"      | (4.7) | Natural | 50        |
| 111-85100         | IT50RT0K2                                   | IT50RT | *                   | 50 lbs                | (225) | 8.07"      | (205) | 1.73"         | (44.0) | .19"      | (4.7) | Black   | 50        |
| IT50L             | Marking Pad Size: .5" x 2.20" (12.8 x 56)   |        |                     |                       |       |            |       |               |        |           |       |         |           |
| 111-85319         | IT50L9C2                                    | IT50L  | MS3368-2-9A         | 50 lbs                | (225) | 15.35"     | (390) | 3.94"         | (100)  | .19"      | (4.7) | Natural | 100       |
| 111-85306         | IT50L9M4                                    | IT50L  | MS3368-2-9A         | 50 lbs                | (225) | 15.35"     | (390) | 3.94"         | (100)  | .19"      | (4.7) | Natural | 1000      |

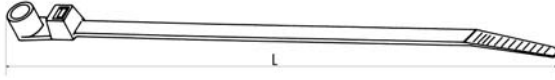
Installation tools - MK7, MK7P, MK7HT, MK9. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. \* Military black available. Contact HellermannTyton for more information.

## Screw Mount Ties

One-piece, all plastic ties for quick, simple cable mounting.

### Material Data

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



**UL** US  
File# E64139

### Product Selection

|             |           |        |                         | Min. Tensile<br>Strength<br>lbs. (N) | Length (L)<br>in. (mm) | Max. Ø Bundle<br>in. (mm) | Width (W)<br>in. (mm) |         | Pkg.<br>Qty. |
|-------------|-----------|--------|-------------------------|--------------------------------------|------------------------|---------------------------|-----------------------|---------|--------------|
| Article No. | Part No.  | Type   | Mounting                |                                      |                        |                           |                       | Color   |              |
| T18MR       |           |        |                         |                                      |                        |                           |                       |         |              |
| 113-00026   | T18MR9C2  | T18MR  | # 4 screw               | 18 lbs (80)                          | 4.33" (110)            | .79" (20)                 | .10" (2.5)            | Natural | 100          |
| 113-00028   | T18MR9M4  | T18MR  |                         | 18 lbs (80)                          | 4.33" (110)            | .79" (20)                 | .10" (2.5)            | Natural | 1000         |
| 113-00022   | T18MR0C2  | T18MR  |                         | 18 lbs (80)                          | 4.33" (110)            | .79" (20)                 | .10" (2.5)            | Black   | 100          |
| 113-00024   | T18MR0M4  | T18MR  |                         | 18 lbs (80)                          | 4.33" (110)            | .79" (20)                 | .10" (2.5)            | Black   | 1000         |
| T30MR       |           |        |                         |                                      |                        |                           |                       |         |              |
| 113-03019   | T30MR9C2  | T30MR  | # 8 screw               | 30 lbs (135)                         | 6.30" (160)            | 1.26" (32)                | .14" (3.5)            | Natural | 100          |
| 113-00036   | T30MR9M4  | T30MR  |                         | 30 lbs (135)                         | 6.30" (160)            | 1.26" (32)                | .14" (3.5)            | Natural | 1000         |
| 113-03010   | T30MR0C2  | T30MR  |                         | 30 lbs (135)                         | 6.30" (160)            | 1.26" (32)                | .14" (3.5)            | Black   | 100          |
| 113-03011   | T30MR0M4  | T30MR  |                         | 30 lbs (135)                         | 6.30" (160)            | 1.26" (32)                | .14" (3.5)            | Black   | 1000         |
| T50MR       |           |        |                         |                                      |                        |                           |                       |         |              |
| 113-05004   | T50MR9C2  | T50MR  | # 10 screw              | 48 lbs (215)                         | 8.46" (215)            | 1.77" (45)                | .18" (4.6)            | Natural | 100          |
| 113-05007   | T50MR9M4  | T50MR  |                         | 48 lbs (215)                         | 8.46" (215)            | 1.77" (45)                | .18" (4.6)            | Natural | 1000         |
| 113-05000   | T50MR0C2  | T50MR  |                         | 48 lbs (215)                         | 8.46" (215)            | 1.77" (45)                | .18" (4.6)            | Black   | 100          |
| 113-05002   | T50MR0M4  | T50MR  |                         | 48 lbs (215)                         | 8.46" (215)            | 1.77" (45)                | .18" (4.6)            | Black   | 1000         |
| T50MRT      |           |        |                         |                                      |                        |                           |                       |         |              |
| 113-05101   | T50MRT9C2 | T50MRT | #6-32 tap<br>thru screw | 50 lbs (225)                         | 8.47" (215)            | 1.77" (45)                | .19" (4.7)            | Natural | 100          |
| 113-05102   | T50MRT9M4 | T50MRT |                         | 50 lbs (225)                         | 8.47" (215)            | 1.77" (45)                | .19" (4.7)            | Natural | 1000         |
| 113-05100   | T50MRT0C2 | T50MRT |                         | 50 lbs (225)                         | 8.47" (215)            | 1.77" (45)                | .19" (4.7)            | Black   | 100          |
| 113-00037   | T50MRT0M4 | T50MRT |                         | 50 lbs (225)                         | 8.47" (215)            | 1.77" (45)                | .19" (4.7)            | Black   | 1000         |
| T50MI       |           |        |                         |                                      |                        |                           |                       |         |              |
| 113-00032   | T50MI9C2  | T50MI  | # 10 screw              | 50 lbs (225)                         | 12.40" (315)           | 3.35" (85)                | .19" (4.7)            | Natural | 100          |
| 113-00033   | T50MI9M4  | T50MI  |                         | 50 lbs (225)                         | 12.40" (315)           | 3.35" (85)                | .19" (4.7)            | Natural | 1000         |
| 113-00038   | T50MI0C2  | T50MI  |                         | 50 lbs (225)                         | 12.40" (315)           | 3.35" (85)                | .19" (4.7)            | Black   | 100          |
| 113-00031   | T50MI0M4  | T50MI  |                         | 50 lbs (225)                         | 12.40" (315)           | 3.35" (85)                | .19" (4.7)            | Black   | 1000         |
| T50ML       |           |        |                         |                                      |                        |                           |                       |         |              |
| 113-05419   | T50ML9C2  | T50ML  | # 10 screw              | 50 lbs (225)                         | 15.35" (390)           | 4.00" (100)               | .18" (4.6)            | Natural | 100          |
| 113-05403   | T50ML9M4  | T50ML  |                         | 50 lbs (225)                         | 15.35" (390)           | 4.00" (100)               | .18" (4.6)            | Natural | 1000         |
| 113-00007   | T50ML0C2  | T50ML  |                         | 50 lbs (225)                         | 15.35" (390)           | 4.00" (100)               | .18" (4.6)            | Black   | 100          |
| 113-00035   | T50ML0M4  | T50ML  |                         | 50 lbs (225)                         | 15.35" (390)           | 4.00" (100)               | .18" (4.6)            | Black   | 1000         |
| T120MR      |           |        |                         |                                      |                        |                           |                       |         |              |
| 113-12029   | T120MR9K2 | T120MR | # 1/4"<br>screw         | 120 lbs (535)                        | 15.55" (395)           | 4.02" (102)               | .30" (7.6)            | Natural | 50           |
| 113-00018   | T120MR9H4 | T120MR |                         | 120 lbs (535)                        | 15.55" (395)           | 4.02" (102)               | .30" (7.6)            | Natural | 500          |
| 113-12020   | T120MR0K2 | T120MR |                         | 120 lbs (535)                        | 15.55" (395)           | 4.02" (102)               | .30" (7.6)            | Black   | 50           |
| 113-00011   | T120MR0H4 | T120MR |                         | 120 lbs (535)                        | 15.55" (395)           | 4.02" (102)               | .30" (7.6)            | Black   | 500          |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties

## Fir Tree Mount and Cable Tie Assemblies

HellermannTyton's fir tree mounts provide a secure grip in a mounting hole and protect against dirt and other impurities. The mount can slide along the strap of the tie for proper orientation. The fir tree mounts are designed to provide a low insertion force and high extraction force. These mounts are sold as an assembly with the cable tie.

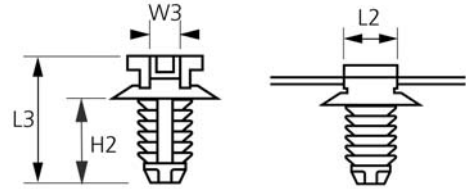
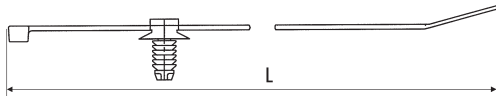
Material Data - All Cable Ties/  
FT7, FT8 and FT10 Mounts

|                       |                                                  |
|-----------------------|--------------------------------------------------|
| Material              | <b>Polyamide 6.6 heat stabilized (PA66HS)</b>    |
| Operating Temperature | <b>-40 °F to +221 °F<br/>(-40 °C to +105 °C)</b> |
| Color                 | <b>Black</b>                                     |
| Flammability          | <b>UL94 V2</b>                                   |



Material Data - FT5, FT6 and FT6LG Mounts

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS)</b> |
| Operating Temperature | <b>-40 °F to +230 °F<br/>(-40 °C to +110 °C)</b>                       |
| Color                 | <b>Black</b>                                                           |
| Flammability          | <b>UL94 HB</b>                                                         |

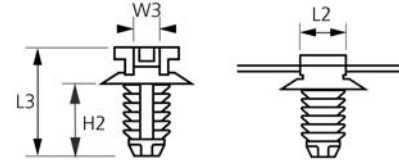
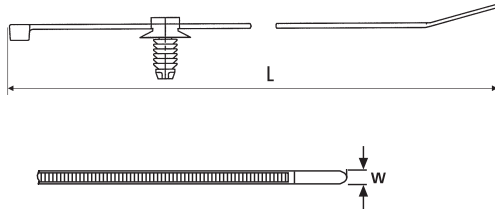


Product Selection

| Article No.                                                                                     | Part No.  | Type    | Min.<br>Tensile<br>Strength<br>lbs.<br>(N) | Max. Ø<br>Bundle<br>in.<br>(mm) | Cable Tie                    |                             | Mount                 |                               |                               |                              |                               | Pkg.<br>Qty. |
|-------------------------------------------------------------------------------------------------|-----------|---------|--------------------------------------------|---------------------------------|------------------------------|-----------------------------|-----------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|--------------|
|                                                                                                 |           |         |                                            |                                 | Length<br>(L)<br>in.<br>(mm) | Width<br>(W)<br>in.<br>(mm) | Disc Ø<br>in.<br>(mm) | Length<br>(L2)<br>in.<br>(mm) | Length<br>(L3)<br>in.<br>(mm) | Width<br>(W3)<br>in.<br>(mm) | Height<br>(H2)<br>in.<br>(mm) |              |
|                                                                                                 |           |         |                                            |                                 |                              |                             |                       |                               |                               |                              |                               |              |
| FT5 - Mounting Hole Ø: .177" - .197" (4.5-5.0mm) - Panel Thickness: .028" - .193" (0.7 - 3.0mm) |           |         |                                            |                                 |                              |                             |                       |                               |                               |                              |                               |              |
| 150-55850                                                                                       | 150-55850 | T30RFT5 | 30 lbs<br>(135)                            | 1.38 "<br>(35)                  | 5.8 "<br>(148)               | .14 "<br>(3.6)              | .63 "<br>(16.0)       | .46 "<br>(11.6)               | .52 "<br>(13.2)               | .20 "<br>(5)                 | .27 "<br>(6.9)                | 500          |
| 156-00025                                                                                       | 156-00025 | T50RFT5 | 50 lbs<br>(225)                            | 1.75 "<br>(44.5)                | 8 "<br>(203.2)               | .18 "<br>(4.6)              | .63 "<br>(16.0)       | .46 "<br>(11.6)               | .52 "<br>(13.2)               | .20 "<br>(5)                 | .27 "<br>(6.9)                | 500          |
| FT6 - Mounting Hole Ø: .252" - .28" (6.4-7.1mm) - Panel Thickness: .028" - .193" (0.75 - 3.0mm) |           |         |                                            |                                 |                              |                             |                       |                               |                               |                              |                               |              |
| 150-77940                                                                                       | 150-77940 | T30RFT6 | 30 lbs<br>(135)                            | 1.38 "<br>(35)                  | 5.8 "<br>(148)               | .14 "<br>(3.6)              | .63 "<br>(16.0)       | .46 "<br>(11.6)               | .54 "<br>(13.8)               | .20 "<br>(5)                 | .295 "<br>(7.5)               | 500          |
| 156-00156                                                                                       | 156-00156 | T50SFT6 | 50 lbs<br>(225)                            | 1.38 "<br>(35)                  | 6.3 "<br>(160)               | .18 "<br>(4.6)              | .63 "<br>(16.0)       | .46 "<br>(11.6)               | .54 "<br>(13.8)               | .20 "<br>(5)                 | .295 "<br>(7.5)               | 500          |
| 156-00157                                                                                       | 156-00157 | T50RFT6 | 50 lbs<br>(225)                            | 1.75 "<br>(44.5)                | 8 "<br>(203.2)               | .18 "<br>(4.6)              | .63 "<br>(16.0)       | .46 "<br>(11.6)               | .54 "<br>(13.8)               | .20 "<br>(5)                 | .295 "<br>(7.5)               | 500          |
| 156-00066                                                                                       | 156-00066 | T50LFT6 | 50 lbs<br>(225)                            | 4 "<br>(101.6)                  | 15 "<br>(380)                | .18 "<br>(4.7)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .54 "<br>(13.8)               | .20 "<br>(5)                 | .295 "<br>(7.5)               | 500          |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P.  
Type for specification purposes.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and

Fir Tree Mount and Cable Tie Assemblies *continued*

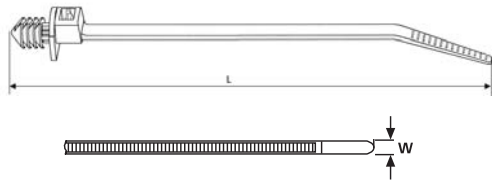
| Product Selection                                                                                |           |           |                                         |                                 |                              |                             |                       |                               |                               |                              |                               |           |
|--------------------------------------------------------------------------------------------------|-----------|-----------|-----------------------------------------|---------------------------------|------------------------------|-----------------------------|-----------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|-----------|
| Article No.                                                                                      | Part No.  | Type      | Min.<br>Tensile<br>Strength<br>lbs. (N) | Max. Ø<br>Bundle<br>in.<br>(mm) | Cable Tie                    |                             | Mount                 |                               |                               |                              |                               | Pkg. Qty. |
|                                                                                                  |           |           |                                         |                                 | Length<br>(L)<br>in.<br>(mm) | Width<br>(W)<br>in.<br>(mm) | Disc Ø<br>in.<br>(mm) | Length<br>(L2)<br>in.<br>(mm) | Length<br>(L3)<br>in.<br>(mm) | Width<br>(W3)<br>in.<br>(mm) | Height<br>(H2)<br>in.<br>(mm) |           |
| FT6LG - Mounting Hole Ø: .256" - .276" (6.4-7.1mm) - Panel Thickness: .03" - .24" (0.75 - 6.0mm) |           |           |                                         |                                 |                              |                             |                       |                               |                               |                              |                               |           |
| 150-31090                                                                                        | 150-31090 | T3ORFT6LG | 30 lbs<br>(135)                         | 1.38 "<br>(35)                  | 5.8 "<br>(148)               | .14 "<br>(3.6)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .69 "<br>(17.5)               | .19 "<br>(5)                 | .44 "<br>(11.1)               | 500       |
| 150-31093                                                                                        | 150-31093 | T5OSFT6LG | 50 lbs<br>(225)                         | 1.38 "<br>(35)                  | 6.3 "<br>(160)               | .18 "<br>(4.6)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .69 "<br>(17.5)               | .19 "<br>(5)                 | .44 "<br>(11.1)               | 500       |
| 150-31091                                                                                        | 150-31091 | T5ORFT6LG | 50 lbs<br>(225)                         | 1.75 "<br>(44)                  | 8 "<br>(203.2)               | .18 "<br>(4.6)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .69 "<br>(17.5)               | .19 "<br>(5)                 | .44 "<br>(11.1)               | 500       |
| 156-00054                                                                                        | 156-00054 | T5OIFT6LG | 50 lbs<br>(225)                         | 3.35 "<br>(85)                  | 11.8 "<br>(300)              | .18 "<br>(4.6)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .69 "<br>(17.5)               | .19 "<br>(5)                 | .44 "<br>(11.1)               | 500       |
| FT7 - Mounting Hole Ø: .256" - .276" (6.5-7.0mm) - Panel Thickness: .031" - .276" (0.8 - 7.0mm)  |           |           |                                         |                                 |                              |                             |                       |                               |                               |                              |                               |           |
| 156-00057                                                                                        | 156-00057 | T3ORFT7   | 30 lbs<br>(135)                         | 1.38 "<br>(35)                  | 5.8 "<br>(148)               | .14 "<br>(3.6)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .75 "<br>(19)                 | .20 "<br>(5)                 | .5 "<br>(12.7)                | 500       |
| 156-00056                                                                                        | 156-00056 | T5OSFT7   | 50 lbs<br>(225)                         | 1.38 "<br>(35)                  | 6.3 "<br>(160)               | .18 "<br>(4.6)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .75 "<br>(19)                 | .20 "<br>(5)                 | .5 "<br>(12.7)                | 500       |
| 111-85871                                                                                        | 111-85871 | T5ORFT7   | 50 lbs<br>(225)                         | 1.75 "<br>(44)                  | 8 "<br>(203.2)               | .18 "<br>(4.6)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .75 "<br>(19)                 | .20 "<br>(5)                 | .5 "<br>(12.7)                | 500       |
| 111-05350                                                                                        | 111-05350 | T5OIFT7   | 50 lbs<br>(225)                         | 3.35 "<br>(85)                  | 11.8 "<br>(300)              | .18 "<br>(4.6)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .75 "<br>(19)                 | .20 "<br>(5)                 | .5 "<br>(12.7)                | 500       |
| 156-00055                                                                                        | 156-00055 | T5OLFT7   | 50 lbs<br>(225)                         | 4.33 "<br>(110)                 | 15 "<br>(380)                | .18 "<br>(4.7)              | .63 "<br>(16)         | .46 "<br>(11.6)               | .75 "<br>(19)                 | .20 "<br>(5)                 | .5 "<br>(12.7)                | 500       |
| FT8 - Mounting Hole Ø: .3" - .31" (7.7-8.0mm) - Panel Thickness: .03" - .31" (0.8 - 8.0mm)       |           |           |                                         |                                 |                              |                             |                       |                               |                               |                              |                               |           |
| 156-00058                                                                                        | 156-00058 | T3ORFT8   | 30 lbs<br>(135)                         | 1.38 "<br>(35)                  | 5.8 "<br>(148)               | .14 "<br>(3.6)              | .63 "<br>(16)         | .47 "<br>(12.0)               | .7 "<br>(17.8)                | .35 "<br>(9)                 | .45 "<br>(11.5)               | 500       |
| 156-00158                                                                                        | 156-00158 | T5ORFT8   | 50 lbs<br>(225)                         | 1.75 "<br>(44)                  | 8 "<br>(203.2)               | .18 "<br>(4.6)              | .63 "<br>(16)         | .47 "<br>(12.0)               | .7 "<br>(17.8)                | .35 "<br>(9)                 | .45 "<br>(11.5)               | 500       |
| 156-00060                                                                                        | 156-00060 | T5OIFT8   | 50 lbs<br>(225)                         | 3.35 "<br>(81)                  | 11.8 "<br>(300)              | .18 "<br>(4.6)              | .63 "<br>(16)         | .47 "<br>(12.0)               | .7 "<br>(17.8)                | .35 "<br>(9)                 | .45 "<br>(11.5)               | 500       |
| 156-00061                                                                                        | 156-00061 | T5OLFT8   | 50 lbs<br>(225)                         | 4.33 "<br>(110)                 | 15 "<br>(380)                | .18 "<br>(4.7)              | .63 "<br>(16)         | .47 "<br>(12.0)               | .7 "<br>(17.8)                | .35 "<br>(9)                 | .45 "<br>(11.5)               | 500       |
| FT10 - Mounting Hole Ø: .38" - .39" (9.7-10.0mm) - Panel Thickness: .031" - .236" (0.8 - 5.0mm)  |           |           |                                         |                                 |                              |                             |                       |                               |                               |                              |                               |           |
| 156-00089                                                                                        | 156-00089 | T3ORFT10  | 30 lbs<br>(135)                         | 1.38 "<br>(35)                  | 5.8 "<br>(148)               | .14 "<br>(3.6)              | .71 "<br>(18)         | .75 "<br>(18.6)               | .26 "<br>(6.5)                | .20 "<br>(5)                 | .48 "<br>(12.1)               | 500       |
| 156-00090                                                                                        | 156-00090 | T5OSFT10  | 50 lbs<br>(225)                         | 1.38 "<br>(35)                  | 6.3 "<br>(160)               | .18 "<br>(4.6)              | .71 "<br>(18)         | .75 "<br>(18.6)               | .26 "<br>(6.5)                | .20 "<br>(5)                 | .48 "<br>(12.1)               | 500       |
| 156-00091                                                                                        | 156-00091 | T5ORFT10  | 50 lbs<br>(225)                         | 1.75 "<br>(44)                  | 8 "<br>(203.2)               | .18 "<br>(4.6)              | .71 "<br>(18)         | .75 "<br>(18.6)               | .26 "<br>(6.5)                | .20 "<br>(5)                 | .48 "<br>(12.1)               | 500       |
| 156-00092                                                                                        | 156-00092 | T5OIFT10  | 50 lbs<br>(225)                         | 3.35 "<br>(81)                  | 11.8 "<br>(300)              | .18 "<br>(4.6)              | .71 "<br>(18.0)       | .75 "<br>(18.6)               | .26 "<br>(6.5)                | .20 "<br>(5)                 | .48 "<br>(12.1)               | 500       |
| 156-00093                                                                                        | 156-00093 | T5OLFT10  | 50 lbs<br>(225)                         | 4.33 "<br>(110)                 | 15 "<br>(380)                | .18 "<br>(4.7)              | .71 "<br>(18)         | .75 "<br>(18.6)               | .26 "<br>(6.5)                | .20 "<br>(5)                 | .48 "<br>(12.1)               | 500       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes.  
Use **Part No.** for ordering and **Type** for specification purposes.

# Cable Ties

## Fir Tree Push Mount Ties

Fir tree design grips to the inside of a hole. They can be used on sheet metal, wood, and cast iron. Type T50RTM25E has a longer fir tree for larger panel thicknesses.



### Material Data

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Material              | <b>Polyamide 6.6 heat stabilized (PA66HS)</b>           |
| Operating Temperature | <b>-40 °F to +221 °F (-40 °C to +105 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                          |



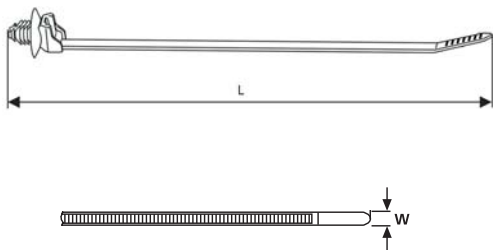
### Product Selection

| Article No. | Part No.              | Type      | Min. Tensile Strength |       | Mounting Hole Ø            | Panel Thickness              | Length (L)  | Max. Ø Bundle | Width (W)  | Color | Pkg. Qty. |
|-------------|-----------------------|-----------|-----------------------|-------|----------------------------|------------------------------|-------------|---------------|------------|-------|-----------|
|             |                       |           | lbs.                  | (N)   | in. (mm)                   | in. (mm)                     | in. (mm)    | in. (mm)      | in. (mm)   |       |           |
| 126-03501   | <b>T50RTM250HSM4</b>  | T50RTM25  | 50 lbs                | (225) | .25" - .26"<br>(6.5 - 6.6) | .052" - .28"<br>(1.32 - 7.0) | 8.27" (210) | 1.97" (50.0)  | .19" (4.7) | Black | 1000      |
| 157-01400   | <b>T50RTM25E8HSM4</b> | T50RTM25E | 50 lbs                | (225) | .25" - .26"<br>(6.5 - 6.6) | .09" - .55"<br>(2.3 - 13.94) | 8.43" (214) | 1.97" (50.0)  | .19" (4.7) | Gray  | 1000      |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Fir Tree Mount with Disc Tie

This fir tree mount tie provides a low insertion force with a high extraction force. The outside serrations present a smooth surface to the cables preventing damage to the insulation. The unique head design allows the cable tie to firmly hold bundles as small as .06" diameter and the disc offers added water protection.



### Material Data

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS)</b> |
| Operating Temperature | <b>-40 °F to +230 °F (-40 °C to +110 °C) continuous</b>                |
| Flammability          | <b>UL94 HB</b>                                                         |



### Product Selection

| Article No. | Part No.         | Type       | Min. Tensile Strength |       | Mounting Hole Ø          | Panel Thickness             | Length (L)  | Max. Ø Bundle | Width (W)  | Color | Pkg. Qty. |
|-------------|------------------|------------|-----------------------|-------|--------------------------|-----------------------------|-------------|---------------|------------|-------|-----------|
|             |                  |            | lbs.                  | (N)   | in. (mm)                 | in. (mm)                    | in. (mm)    | in. (mm)      | in. (mm)   |       |           |
| 155-05800   | <b>155-05800</b> | T50SOSFT6E | 50 lbs                | (225) | .26" - .28"<br>(6.5-7.0) | .03" - .12"<br>(0.75 - 3.0) | 6.30" (160) | 1.38" (35)    | .18" (4.6) | Black | 500       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



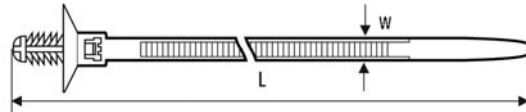
## Domed Fir Tree Mount

The domed head tie provides a tight, rattle-free installation and the outside serrated strap has ribs designed for convoluted tubing. The dome also acts as a seal to keep out dust and liquid.



### Material Data

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Material              | <b>Polyamide 6.6 heat stabilized (PA66HS)</b>           |
| Operating Temperature | <b>-40 °F to +221 °F (-40 °C to +105 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                          |



### Product Selection

| Article No. | Part No.            | Type    | Min. Tensile Strength | Mounting Hole Ø       | Panel Thickness         | Length (L)  | Max. Ø Bundle | Width (W)  | Color | Pkg. Qty. |
|-------------|---------------------|---------|-----------------------|-----------------------|-------------------------|-------------|---------------|------------|-------|-----------|
|             |                     |         | lbs. (N)              | in. (mm)              | in. (mm)                | in. (mm)    | in. (mm)      | in. (mm)   |       |           |
| 157-01100   | <b>T50SDP6.HB6P</b> | T50SDP6 | 45 lbs (200)          | .25" - .28" (6.3-7.0) | .03" - .28" (0.8 - 7.0) | 6.69" (170) | 1.22" (31)    | .20" (5.1) | Black | 500       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

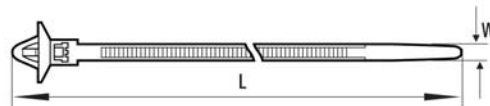
## Domed Push Mount Tie

The domed head tie provides a tight, rattle-free installation and the outside serrated strap has ribs designed for convoluted tubing. The dome also acts as a seal to keep out dust and liquid.



### Material Data

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Material              | <b>Polyamide 6.6 heat stabilized (PA66HS)</b>           |
| Operating Temperature | <b>-40 °F to +221 °F (-40 °C to +105 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                          |



### Product Selection

| Article No. | Part No.         | Type   | Min. Tensile Strength | Mounting Hole Ø       | Panel Thickness           | Length (L)  | Max. Ø Bundle | Width (W)  | Color | Pkg. Qty. |
|-------------|------------------|--------|-----------------------|-----------------------|---------------------------|-------------|---------------|------------|-------|-----------|
|             |                  |        | lbs. (N)              | in. (mm)              | in. (mm)                  | in. (mm)    | in. (mm)      | in. (mm)   |       |           |
| 111-85350   | <b>111-85350</b> | T50SD6 | 50 lbs (225)          | .25" - .30" (6.3-7.5) | .023" - .047" (0.6 - 1.2) | 6.30" (160) | 1.22" (31)    | .20" (5.1) | Black | 500       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

# Cable Ties

## Push Mount Ties

One-piece, all plastic ties for quick, simple cable mounting.



### Material Data

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



File# E64139

### Product Selection

| Product Selection |           |           |                       |       |                            |                           |             |               |            |         |           |
|-------------------|-----------|-----------|-----------------------|-------|----------------------------|---------------------------|-------------|---------------|------------|---------|-----------|
| Article No.       | Part No.  | Type      | Min. Tensile Strength |       | Mounting Hole Ø            | Panel Thickness           | Length (L)  | Max. Ø Bundle | Width (W)  | Color   | Pkg. Qty. |
|                   |           |           | lbs.                  | (N)   | in. (mm)                   | in. (mm)                  | in. (mm)    | in. (mm)      | in. (mm)   |         |           |
| T30RSF            |           |           |                       |       |                            |                           |             |               |            |         |           |
| 111-85603         | T30RSF9C2 | T30RSF(U) | 30 lbs                | (135) | .19" - .22"<br>(4.76-5.59) | .04" - .09"<br>(0.9-2.36) | 6.34" (161) | 1.25" (31.8)  | .14" (3.6) | Natural | 100       |
| 126-00704         | T30RSF9M4 | T30RSF(U) | 30 lbs                | (135) | .19" - .22"<br>(4.76-5.59) | .04" - .09"<br>(0.9-2.36) | 6.34" (161) | 1.25" (31.8)  | .14" (3.6) | Natural | 1000      |
| 126-00700         | T30RSF0C2 | T30RSF(U) | 30 lbs                | (135) | .19" - .22"<br>(4.76-5.59) | .04" - .09"<br>(0.9-2.36) | 6.34" (161) | 1.25" (31.8)  | .14" (3.6) | Black   | 100       |
| 126-00702         | T30RSF0M4 | T30RSF(U) | 30 lbs                | (135) | .19" - .22"<br>(4.76-5.59) | .04" - .09"<br>(0.9-2.36) | 6.34" (161) | 1.25" (31.8)  | .14" (3.6) | Black   | 1000      |
| T50SSF            |           |           |                       |       |                            |                           |             |               |            |         |           |
| 126-00043         | 126-00043 | T50SSF    | 50 lbs                | (225) | .25" - .28"<br>(6.4-7.1)   | .04" - .14"<br>(1.0-3.56) | 6.26" (159) | 1.38" (35)    | .19" (4.7) | Natural | 100       |
| 126-00044         | 126-00044 | T50SSF    | 50 lbs                | (225) | .25" - .28"<br>(6.4-7.1)   | .04" - .14"<br>(1.0-3.56) | 6.26" (159) | 1.38" (35)    | .19" (4.7) | Natural | 1000      |
| 126-00045         | 126-00045 | T50SSF    | 50 lbs                | (225) | .25" - .28"<br>(6.4-7.1)   | .04" - .14"<br>(1.0-3.56) | 6.26" (159) | 1.38" (35)    | .19" (4.7) | Black   | 100       |
| 126-00046         | 126-00046 | T50SSF    | 50 lbs                | (225) | .25" - .28"<br>(6.4-7.1)   | .04" - .14"<br>(1.0-3.56) | 6.26" (159) | 1.38" (35)    | .19" (4.7) | Black   | 1000      |
| T50RSF            |           |           |                       |       |                            |                           |             |               |            |         |           |
| 111-85789         | T50RSF9C2 | T50RSF(U) | 50 lbs                | (225) | .25" - .28"<br>(6.4-7.1)   | .04" - .14"<br>(1.0-3.56) | 8.27" (210) | 1.73" (44)    | .19" (4.7) | Natural | 100       |
| 126-01011         | T50RSF9M4 | T50RSF(U) | 50 lbs                | (225) | .25" - .28"<br>(6.4-7.1)   | .04" - .14"<br>(1.0-3.56) | 8.27" (210) | 1.73" (44)    | .19" (4.7) | Natural | 1000      |
| 126-01003         | T50RSF0C2 | T50RSF(U) | 50 lbs                | (225) | .25" - .28"<br>(6.4-7.1)   | .04" - .14"<br>(1.0-3.56) | 8.27" (210) | 1.73" (44)    | .19" (4.7) | Black   | 100       |
| 126-01004         | T50RSF0M4 | T50RSF(U) | 50 lbs                | (225) | .25" - .28"<br>(6.4-7.1)   | .04" - .14"<br>(1.0-3.56) | 8.27" (210) | 1.73" (44)    | .19" (4.7) | Black   | 1000      |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P.  
and **Type** for specification purposes.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering

## Wing Push Mount Ties

Wing design helps stabilize the tie in high vibration applications. They can be used on sheet metal, wood, and cast iron.



| Material Data         |                                                            |
|-----------------------|------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                                |
| Operating Temperature | <b>-40 °F to +185 °F<br/>(-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                             |



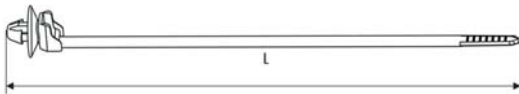
**CALUS**  
File# E64139

| Product Selection |             |         |                             |                            |                              |             |                  |            |             |         |              |
|-------------------|-------------|---------|-----------------------------|----------------------------|------------------------------|-------------|------------------|------------|-------------|---------|--------------|
| Article No.       | Part No.    | Type    | Min.<br>Tensile<br>Strength | Mounting<br>Hole Ø         | Panel<br>Thickness           | Length (L)  | Max. Ø<br>Bundle | Width (W)  | Disc Ø      | Color   | Pkg.<br>Qty. |
|                   |             |         | lbs. (N)                    | in.<br>(mm)                | in.<br>(mm)                  | in. (mm)    | in. (mm)         | in. (mm)   | in. (mm)    |         |              |
| T18RWPM           |             |         |                             |                            |                              |             |                  |            |             |         |              |
| 126-00041         | 126-00041   | T18RWPM | 18 lbs (80)                 | .19" - .22"<br>(4.76-5.59) | .07" - .13"<br>(1.85 - 3.18) | 4.45" (113) | .87" (22)        | .10" (2.5) | .52" (13.1) | Natural | 100          |
| 126-00603         | T18RWPM9M4  | T18RWPM | 18 lbs (80)                 | .19" - .22"<br>(4.76-5.59) | .07" - .13"<br>(1.85 - 3.18) | 4.45" (113) | .87" (22)        | .10" (2.5) | .52" (13.1) |         | 1000         |
| T50SL6            |             |         |                             |                            |                              |             |                  |            |             |         |              |
| 111-85469         | T50SL6.NN6P | T50SL6  | 50 lbs (225)                | .24" - .26"<br>(6.1-6.5)   | .03" - .10"<br>(0.8 - 2.5)   | 6.50" (165) | 1.34" (34)       | .18" (4.6) | .73" (18.5) | Natural | 500          |
| T50SL7            |             |         |                             |                            |                              |             |                  |            |             |         |              |
| 111-85479         | T50SL7.NN6P | T50SL7  | 50 lbs (225)                | .27" - .28"<br>(6.9-7.1)   | .03" - .10"<br>(0.8 - 2.5)   | 6.50" (165) | 1.34" (34)       | .18" (4.6) | .73" (18.5) | Natural | 500          |

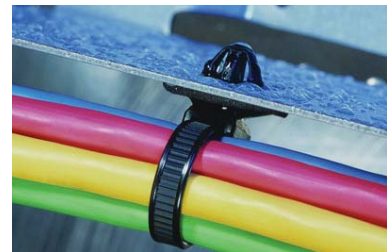
Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. \* UL recognition applies to T18RWPM ties.

## Arrowhead Mount Ties

This tie has an arrowhead design which offers a positive, low insertion force and a high extraction force. Part No. 126-03100 features a foam rubber seal which provides additional protection against moisture, dirt and other impurities.



| Material Data         |                                                         |
|-----------------------|---------------------------------------------------------|
| Material              | <b>Polyamide 6.6 heat stabilized (PA66HS)</b>           |
| Operating Temperature | <b>-40 °F to +221 °F (-40 °C to +105 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                          |



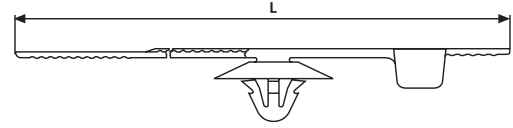
| Product Selection |           |                  |                       |                       |                         |             |               |            |       |           |
|-------------------|-----------|------------------|-----------------------|-----------------------|-------------------------|-------------|---------------|------------|-------|-----------|
| Article No.       | Part No.  | Type             | Min. Tensile Strength | Mounting Hole Ø       | Panel Thickness         | Length (L)  | Max. Ø Bundle | Width (W)  | Color | Pkg. Qty. |
|                   |           |                  | lbs. (N)              | in. (mm)              | in. (mm)                | in. (mm)    | in. (mm)      | in. (mm)   |       |           |
| 126-03100         | 126-03100 | T50SOSSFT6.5E-MD | 50 lbs (225)          | .25" - .26" (6.3-6.7) | .02" - .07" (0.6 - 1.8) | 6.30" (160) | 1.38" (35)    | .18" (4.6) | Green | 500       |
| 126-03101         | 126-03101 | T50SOSSFT6.5E    | 50 lbs (225)          | .25" - .26" (6.3-6.7) | .02" - .07" (0.6 - 1.8) | 6.30" (160) | 1.38" (35)    | .18" (4.6) | Black | 500       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

# Cable Ties

## Center Mount, Domed Push Mount Ties

The center mount, domed push mount tie centers the mount on all bundle diameters. The mount is molded in a stationary position for easy assembly. A tab extends beyond the head for easy strap insertion.



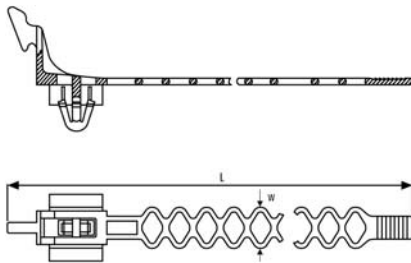
| Material Data         |                                                 | RoHS |
|-----------------------|-------------------------------------------------|------|
| Material              | Polyamide 6.6 (PA66)                            |      |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |      |
| Flammability          | UL94 V2                                         |      |

| Product Selection |                  |        |                       |                       |                          |             |               |            |       |           |
|-------------------|------------------|--------|-----------------------|-----------------------|--------------------------|-------------|---------------|------------|-------|-----------|
| Article No.       | Part No.         | Type   | Min. Tensile Strength | Mounting Hole Ø       | Panel Thickness          | Length (L)  | Max. Ø Bundle | Width (W)  | Color | Pkg. Qty. |
|                   |                  |        | lbs. (N)              | in. (mm)              | in. (mm)                 |             |               |            |       |           |
| 150-35930         | <b>150-35930</b> | T50RSP | 50 lbs (222)          | .24" - .26" (6.0-6.5) | .03" - .05" (0.75 - 1.3) | 7.48" (190) | 1.77" (45)    | .18" (4.6) | Black | 1000      |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Ladder Style Push Mount Ties

The unique ladder style design eliminates the need for various sizes of clamps and allows for easy re-entry to access bundle. Wings on the side of the tie provide stabilization.



| Material Data         |                                                 | RoHS |
|-----------------------|-------------------------------------------------|------|
| Material              | Polyamide 6.6 (PA66)                            |      |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |      |
| Flammability          | UL94 V2                                         |      |

| Product Selection |           |        |                          |                            |             |               |           |       |           |
|-------------------|-----------|--------|--------------------------|----------------------------|-------------|---------------|-----------|-------|-----------|
| Article No.       | Part No.  | Type   | Mounting Hole Ø          | Panel Thickness            | Length (L)  | Max. Ø Bundle | Width (W) | Color | Pkg. Qty. |
|                   |           |        | in. (mm)                 | in. (mm)                   | in. (mm)    | in. (mm)      | in. (mm)  |       |           |
| 150-26100         | FBS1000H4 | FBS100 | .25" - .26"<br>(6.3-6.7) | .03" - .15"<br>(0.7 - 3.9) | 4.53" (115) | 1.06" (27)    | .40" (10) | Black | 500       |
| 150-26140         | FBS1400H4 | FBS140 | .26" - .25"<br>(6.3-6.7) | .03" - .15"<br>(0.7 - 3.9) | 6.30" (160) | 1.65" (42)    | .40" (10) | Black | 500       |
| 150-26180         | FBS1850H4 | FBS185 | .26" - .25"<br>(6.3-6.7) | .03" - .15"<br>(0.7 - 3.9) | 7.87" (200) | 2.09" (53)    | .40" (10) | Black | 500       |

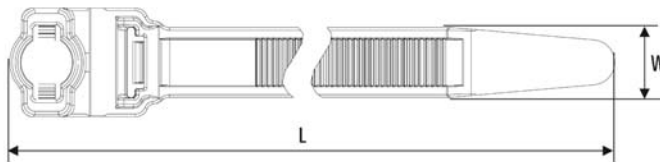
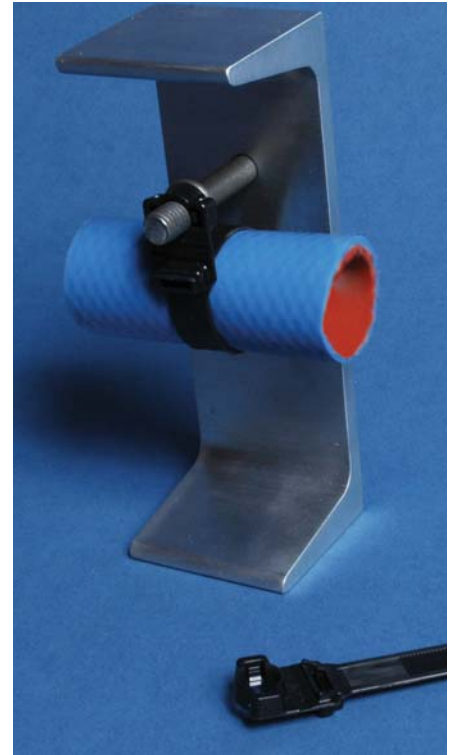
Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Wide Strap Heavy Duty Stud Mount Cable Ties

The wide strap stud mount cable tie minimizes pinching on soft bundles and features a low profile head to provide compact bundling. A thinner strap provides increased flexibility for improved ergonomics. Available with a 1/4" and 3/8" stud mount, the wide strap tie utilizes a strong hinge between the stud mount and head to provide superior holding ability on a threaded stud.

- Wide strap to minimize pinching of soft hoses and convoluted tubing
- Clamping rails to increase grip on round bundles
- Wide variation of bundle diameters: .375" - 4.125" (9.5mm - 104.7mm)
- Flexible strap
- Flexible hinge
- Mount provides low insertion and high extraction forces

| Material Data         |                                                                        | RoHS |
|-----------------------|------------------------------------------------------------------------|------|
| Material              | <b>Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS)</b> |      |
| Operating Temperature | <b>-40 °F to +230 °F (-40 °C to +110 °C) continuous</b>                |      |
| Flammability          | <b>UL94 HB</b>                                                         |      |



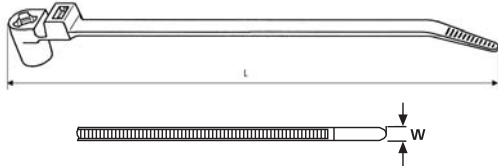
| Product Selection                    |           |        |                       |       |            |          |               |          |           |        |       |           |
|--------------------------------------|-----------|--------|-----------------------|-------|------------|----------|---------------|----------|-----------|--------|-------|-----------|
| Article No.                          | Part No.  | Type   | Min. Tensile Strength |       | Length (L) |          | Max. Ø Bundle |          | Width (W) |        | Color | Pkg. Qty. |
|                                      |           |        | lbs. (N)              |       | in. (mm)   |          | in. (mm)      |          | in. (mm)  |        |       |           |
| Wide Strap Ties with 1/4" Stud Mount |           |        |                       |       |            |          |               |          |           |        |       |           |
| 157-00400                            | 157-00400 | WSS250 | 120 lbs               | (534) | 9.7"       | (246.38) | 2.25"         | (57.15)  | .5"       | (12.7) | Black | 300       |
| 157-00401                            | 157-00401 | WSI250 | 120 lbs               | (534) | 12.7"      | (322.58) | 3.25"         | (82.55)  | .5"       | (12.7) | Black | 300       |
| 157-00402                            | 157-00402 | WSR250 | 120 lbs               | (534) | 15.7"      | (398.78) | 4.125"        | (104.78) | .5"       | (12.7) | Black | 300       |
| Wide Strap Ties with 3/8" Stud Mount |           |        |                       |       |            |          |               |          |           |        |       |           |
| WSS38                                |           |        |                       |       |            |          |               |          |           |        |       |           |
| 157-00406                            | 157-00406 | WSS380 | 120 lbs               | (534) | 9.7"       | (246.38) | 2.25"         | (57.15)  | .5"       | (12.7) | Black | 60        |
| 157-00403                            | 157-00403 | WSS380 | 120 lbs               | (534) | 9.7"       | (246.38) | 2.25"         | (57.15)  | .5"       | (12.7) | Black | 300       |
| WSI38                                |           |        |                       |       |            |          |               |          |           |        |       |           |
| 157-00407                            | 157-00407 | WSI380 | 120 lbs               | (534) | 12.7"      | (322.58) | 3.25"         | (82.55)  | .5"       | (12.7) | Black | 60        |
| 157-00404                            | 157-00404 | WSI380 | 120 lbs               | (534) | 12.7"      | (322.58) | 3.25"         | (82.55)  | .5"       | (12.7) | Black | 300       |
| WSR38                                |           |        |                       |       |            |          |               |          |           |        |       |           |
| 157-00408                            | 157-00408 | WSR380 | 120 lbs               | (534) | 15.7"      | (398.78) | 4.125"        | (104.78) | .5"       | (12.7) | Black | 60        |
| 157-00405                            | 157-00405 | WSR380 | 120 lbs               | (534) | 15.7"      | (398.78) | 4.125"        | (104.78) | .5"       | (12.7) | Black | 300       |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties

### Stud Mount Ties

The stud mount tie mounts and secures a cable bundle in one component. The stud mount tie is designed for use on a 1/4" - 20 UNC threaded stud or the exposed threads of a machine screw.



| Material Data         |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS)</b> |
| Operating Temperature | <b>-40 °F to +230 °F (-40 °C to +110 °C) continuous</b>                |
| Flammability          | <b>UL94 HB</b>                                                         |



| Product Selection |                      |         | Stud Ø      | Min. Tensile Strength | Length (L)   | Max. Ø Bundle | Width (W)  | Color | Pkg. Qty. |
|-------------------|----------------------|---------|-------------|-----------------------|--------------|---------------|------------|-------|-----------|
| Article No.       | Part No.             | Type    | in. (mm)    | lbs. (N)              | in. (mm)     | in. (mm)      | in. (mm)   |       |           |
| 157-01300         | <b>T120RSM0HIRK2</b> | T120RSM | .25" (6.25) | 120 lbs (535)         | 15.94" (405) | 3.98" (101)   | .30" (7.6) | Black | 50        |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### Standoff Stud Mount Tie

This tie is easily mounted on the top of the stud, the additional height gained by this design gives the bundle added clearance from the panel.



| Material Data         |                                                         |
|-----------------------|---------------------------------------------------------|
| Material              | <b>Polyamide 6.6 heat stabilized (PA66HS)</b>           |
| Operating Temperature | <b>-40 °F to +221 °F (-40 °C to +105 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                          |

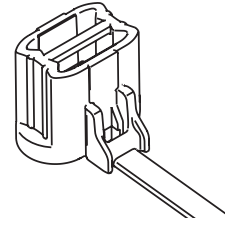


| Product Selection |                  |             | Stud Ø   | Min. Tensile Strength | Length (L)  | Max. Ø Bundle | Width (W)   | Color | Pkg. Qty. |
|-------------------|------------------|-------------|----------|-----------------------|-------------|---------------|-------------|-------|-----------|
| Article No.       | Part No.         | Type        | in. (mm) | lbs. (N)              | in. (mm)    | in. (mm)      | in. (mm)    |       |           |
| 155-30602         | <b>155-30602</b> | T50SSBS50TE | .20" (5) | 45 lbs (200)          | 6.30" (160) | 1.38" (35)    | .181" (4.6) | Black | 500       |

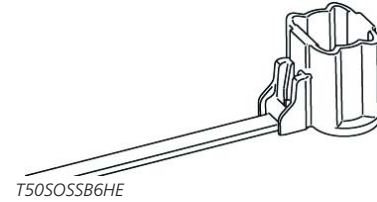
Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Oval Shaped Variable Stud Mount Ties

The special oval shape provides for an approximate .20" (5.5mm) lateral adjustment, allowing for any misalignment of the stud or incorrect positioning of the tie on the cables. The "soft push" mount allows it to be installed onto a weld stud without the use of any tools.



T50SOSSB5HEC



T50SOSSB6HE

| Material Data         |                                                  |
|-----------------------|--------------------------------------------------|
| Material              | Polyamide 6.6 heat stabilized (PA66HS)           |
| Operating Temperature | -40 °F to +221 °F (-40 °C to +105 °C) continuous |
| Flammability          | UL94 V2                                          |

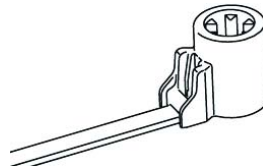
RoHS

| Product Selection |           | Type         | Stud Ø |      | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |      | Width (W) |       | Color | Pkg. Qty. |
|-------------------|-----------|--------------|--------|------|-----------------------|-------|------------|-------|---------------|------|-----------|-------|-------|-----------|
| Article No.       | Part No.  |              | in.    | (mm) | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm) | in.       | (mm)  |       |           |
| 155-05400         | 155-05400 | T50SOSSB5HEC | .20"   | (5)  | 38 lbs                | (170) | 6.30"      | (160) | 1.38"         | (35) | .18"      | (4.6) | Black | 500       |
| 155-46302         | 155-46302 | T50SOSSB6HE  | .24"   | (6)  | 38 lbs                | (170) | 6.30"      | (160) | 1.38"         | (35) | .18"      | (4.6) | Black | 500       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Stud Mount Tie with Outside Serrations

Providing an especially secure hold and the ability to mount the cables very close to the stud, this tie is outside serrated preventing damage to the insulation of the cable.



T50SOSSB5SE

| Material Data         |                                                  |
|-----------------------|--------------------------------------------------|
| Material              | Polyamide 6.6 heat stabilized (PA66HS)           |
| Operating Temperature | -40 °F to +221 °F (-40 °C to +105 °C) continuous |
| Flammability          | UL94 V2                                          |

RoHS

| Product Selection |           | Type        | Stud Ø |      | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |      | Width (W) |       | Color | Pkg. Qty. |
|-------------------|-----------|-------------|--------|------|-----------------------|-------|------------|-------|---------------|------|-----------|-------|-------|-----------|
| Article No.       | Part No.  |             | in.    | (mm) | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm) | in.       | (mm)  |       |           |
| 155-12300         | 155-12300 | T50SOSSB5SE | .20"   | (5)  | 50 lbs                | (225) | 6.30"      | (160) | 1.38"         | (35) | .18"      | (4.6) | Black | 500       |

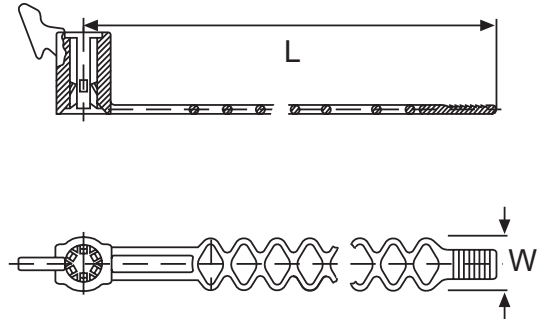
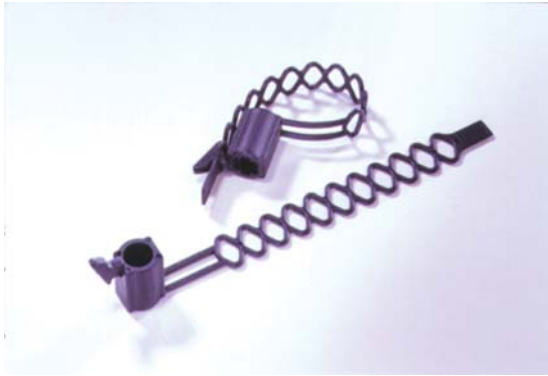
Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Cable Ties

## Ladder Style Stud Mount Ties

Ladder style tie mounts easily onto #10-24" (5 mm) stud. Unique latch allows for easy re-entry to bundles.



## Material Data

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



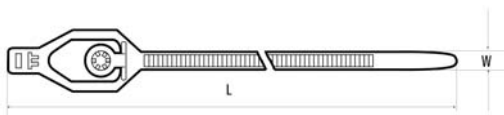
## Product Selection

| Article No. | Part No.         | Type   | Stud Ø   |      | Length (L) |       | Max. Ø Bundle |      | Width (W) |      | Color | Pkg. Qty. |
|-------------|------------------|--------|----------|------|------------|-------|---------------|------|-----------|------|-------|-----------|
|             |                  |        | in.      | (mm) | in.        | (mm)  | in.           | (mm) | in.       | (mm) |       |           |
| 150-28100   | <b>150-28100</b> | FBB100 | # 10-24" | (5)  | 4"         | (110) | .91"          | (23) | .40"      | (10) | Black | 500       |
| 150-28140   | <b>150-28140</b> | FBB140 |          |      | 5.59"      | (142) | 1.50"         | (38) | .40"      | (10) | Black | 500       |
| 150-28180   | <b>150-28180</b> | FBB185 |          |      | 7.87"      | (200) | 1.97"         | (50) | .40"      | (10) | Black | 500       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Flexible Head Stud Mount Tie

Flexible head wraps around cable bundle for easy installation.



## Material Data

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



## Product Selection

| Product Selection |           |        |           |      |                       |            |       |               |           |      |       |           |      |
|-------------------|-----------|--------|-----------|------|-----------------------|------------|-------|---------------|-----------|------|-------|-----------|------|
| Article No.       | Part No.  | Type   | Stud Ø    |      | Min. Tensile Strength | Length (L) |       | Max. Ø Bundle | Width (W) |      | Color | Pkg. Qty. |      |
|                   |           |        | in.       | (mm) | lbs. (N)              | in.        | (mm)  | in.           | (mm)      | in.  |       |           | (mm) |
| 111-07110         | 111-07110 | T5ORS5 | #10 - 24" | (5)  | 50 lbs (225)          | 7.48"      | (190) | 1.58"         | (40)      | .18" | (4.6) | Black     | 100  |

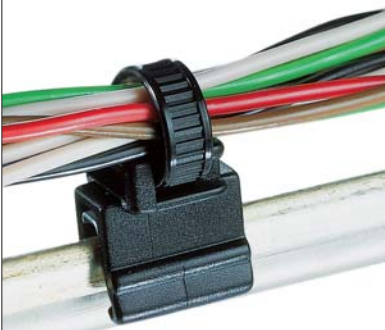
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Cable Ties and Edge Clips

HellermannTyton's edge clips are designed specifically to route bundles by securing them to the edge of a plastic or metal sheet without the need for a mounting hole. The clip is easy to secure and the extraction force is high due to the integrated metal clamp that holds the edge clip in place. Edge clips are available in three configurations: a two piece clip and tie assembly, a one piece clip and tie combination and a edge clip and tape bar combination. When noted (\*), cable ties are outside serrated which can reduce bundle chafing.

### Two Piece Edge Clip and Cable Tie Assemblies



T50ROSEC4A - the cable bundle runs parallel with the edge.

#### Material Data- Cable Tie

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Material              | <b>Polyamide 6.6 heat stabilized (PA66HS)</b>           |
| Color                 | <b>Black</b>                                            |
| Operating Temperature | <b>-40 °F to +221 °F (-40 °C to +105 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                          |

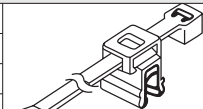
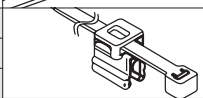
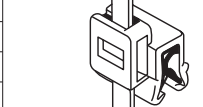
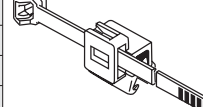
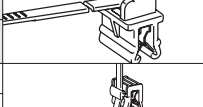


#### Material Data - Edge Clip

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS)</b> |
| Color                 | <b>Black</b>                                                           |
| Operating Temperature | <b>-40 °F to +230 °F (-40 °C to +110 °C) continuous</b>                |
| Flammability          | <b>UL94 HB</b>                                                         |



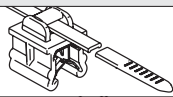
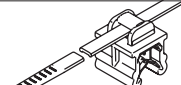
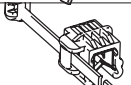
#### Product Selection

| Product Selection                        |                    |             | Min. Tensile Strength | Length (L) | Max. Ø Bundle | Pkg. Qty. | Drawing                                                                               |
|------------------------------------------|--------------------|-------------|-----------------------|------------|---------------|-----------|---------------------------------------------------------------------------------------|
| Article No.                              | Part No.           | Type        |                       |            |               |           |                                                                                       |
| Panel Thickness, — .039" - .117" (1-3mm) |                    |             |                       |            |               |           |                                                                                       |
| 150-76090                                | <b>150-76090</b>   | T30REC4A    | 30 lbs (135)          | 5.9" (150) | 1.3" (33)     | 500       |  |
| 150-76093                                | <b>150-76093 *</b> | T50SOSEC4A  | 50 lbs (225)          | 5.9" (150) | 1.2" (31)     | 500       |                                                                                       |
| 150-76091                                | <b>150-76091</b>   | T50REC4A    | 50 lbs (225)          | 8" (202)   | 1.8" (45)     | 500       |                                                                                       |
| 150-76099                                | <b>150-76099 *</b> | T50ROSEC4A  | 50 lbs (225)          | 7.9" (200) | 1.8" (45)     | 500       |                                                                                       |
| 150-76080                                | <b>150-76080</b>   | T30REC4B    | 50 lbs (135)          | 5.9" (150) | 1.3" (33)     | 500       |                                                                                       |
| 156-00109                                | <b>156-00109 *</b> | T50SOSEC4B  | 50 lbs (225)          | 6.5" (165) | 1.2" (31)     | 500       |  |
| 150-76079                                | <b>150-76079 *</b> | T50ROSEC4B  | 50 lbs (225)          | 7.9" (200) | 1.8" (45)     | 500       |                                                                                       |
| 150-40593                                | <b>150-40593 *</b> | T50SOSEC5A  | 50 lbs (225)          | 5.9" (150) | 1.2" (31)     | 500       |                                                                                       |
| 150-40592                                | <b>150-40592</b>   | T50REC5A    | 50 lbs (225)          | 8" (202)   | 1.8" (45)     | 500       |  |
| 150-40591                                | <b>150-40591</b>   | T50ROSEC5A  | 50 lbs (225)          | 7.9" (200) | 1.8" (45)     | 500       |                                                                                       |
| 156-01007                                | <b>156-01007</b>   | T50RDHEC5A  | 50 lbs (225)          | 8.3" (210) | 1.8" (45)     | 500       |                                                                                       |
| 156-05000                                | <b>156-05000</b>   | T30REC5B    | 30 lbs (135)          | 5.9" (150) | 1.3" (33)     | 500       |  |
| 150-40583                                | <b>150-40583 *</b> | T50SOSEC5B  | 50 lbs (225)          | 5.9" (150) | 1.2" (31)     | 500       |                                                                                       |
| 150-40582                                | <b>150-40582</b>   | T50REC5B    | 50 lbs (225)          | 8.0" (202) | 1.8" (45)     | 500       |                                                                                       |
| 150-40581                                | <b>150-40581 *</b> | T50ROSEC5B  | 50 lbs (225)          | 7.9" (200) | 1.8" (45)     | 500       |  |
| 155-37104                                | <b>155-37104</b>   | T18REC9     | 18 lbs (80)           | 3.9" (100) | .75" (19)     | 500       |                                                                                       |
| 156-00019                                | <b>156-00019 *</b> | T50SOSEC9SD | 50 lbs (225)          | 5.9" (150) | 1.2" (31)     | 500       |                                                                                       |
| 156-05903                                | <b>156-05903</b>   | T50ROSEC9   | 50 lbs (225)          | 7.9" (200) | 1.8" (45)     | 500       |  |
| 155-38304                                | <b>155-38304</b>   | T18R-EC10   | 18 lbs (80)           | 3.9" (100) | .79" (20)     | 500       |                                                                                       |
| 156-05904                                | <b>156-05904 *</b> | T50ROSEC10  | 50 lbs (225)          | 7.9" (200) | 1.8" (45)     | 500       |                                                                                       |
| 156-00017                                | <b>156-00017</b>   | T50SOSEC21  | 50 lbs (225)          | 5.9" (150) | 1.3" (33)     | 500       |  |
| 156-00010                                | <b>156-00010</b>   | T50ROSEC21  | 50 lbs (225)          | 7.9" (200) | 1.8" (45)     | 500       |                                                                                       |
| 156-00018                                | <b>156-00018</b>   | T50SOSEC22  | 50 lbs (225)          | 5.9" (150) | 1.3" (33)     | 500       |                                                                                       |
| 156-00011                                | <b>156-00011</b>   | T50ROSEC22  | 50 lbs (225)          | 7.9" (200) | 1.8" (45)     | 500       |                                                                                       |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. \* outside serrated cable tie

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Two Piece Edge Clip and Cable Tie Assemblies *continued*

| Product Selection                        |           |            |                       |       |            |       |               |      |           |                                                                                     |
|------------------------------------------|-----------|------------|-----------------------|-------|------------|-------|---------------|------|-----------|-------------------------------------------------------------------------------------|
| Article No.                              | Part No.  | Type       | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |      | Pkg. Qty. | Drawing                                                                             |
|                                          |           |            | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm) |           |                                                                                     |
| Panel Thickness — .117" - .234" (3-6 mm) |           |            |                       |       |            |       |               |      |           |                                                                                     |
| 156-04600                                | 156-04600 | T18ROSEC19 | 18 lbs                | (80)  | 3.9"       | (100) | .79"          | (20) | 500       |  |
| 156-04601                                | 156-04601 | T50SOSEC19 | 50 lbs                | (225) | 5.9"       | (150) | 1.2"          | (31) | 500       |                                                                                     |
| 156-04602                                | 156-04602 | T50ROSEC19 | 50 lbs                | (225) | 7.9"       | (200) | 1.8"          | (45) | 500       |                                                                                     |
| 156-00016                                | 156-00016 | T50SOSEC20 | 50 lbs                | (225) | 5.9"       | (150) | 1.3"          | (33) | 500       |  |
| 156-00020                                | 156-00020 | T50ROSEC20 | 50 lbs                | (225) | 7.9"       | (200) | 1.8"          | (45) | 500       |                                                                                     |
| 156-00006                                | 156-00006 | T50ROSEC23 | 50 lbs                | (225) | 7.9"       | (200) | 1.8"          | (45) | 500       |  |
| 156-00007                                | 156-00007 | T50ROSEC24 | 50 lbs                | (225) | 7.9"       | (200) | 1.8"          | (45) | 500       |  |

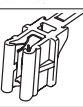
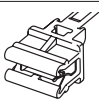
Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## One Piece Edge Clip and Cable Tie Combinations

The plastic area of the edge clips and the cable ties are molded together.

| Material Data         |                                                  | RoHS |
|-----------------------|--------------------------------------------------|------|
| Material              | Polyamide 6.6 heat stabilized (PA66HS)           |      |
| Color                 | Black                                            |      |
| Operating Temperature | -40 °F to +221 °F (-40 °C to +105 °C) continuous |      |
| Flammability          | UL94 HB                                          |      |

| Product Selection                        |           |             |                       |       |            |       |               |      |           |                                                                                       |
|------------------------------------------|-----------|-------------|-----------------------|-------|------------|-------|---------------|------|-----------|---------------------------------------------------------------------------------------|
| Article No.                              | Part No.  | Type        | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |      | Pkg. Qty. | Drawing                                                                               |
|                                          |           |             | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm) |           |                                                                                       |
| Panel Thickness — .039" - .117" (1-3 mm) |           |             |                       |       |            |       |               |      |           |                                                                                       |
| 133-00059                                | 133-00059 | T40XEC5SP-E | 40 lbs                | (178) | 4.05"      | (103) | .59"          | (15) | 500       |  |
| 148-00200                                | 148-00200 | T50SOSEC12E | 50 lbs                | (225) | 6.30"      | (160) | 1.38"         | (35) | 500       |  |
| 126-00000                                | 126-00000 | T50SOSEC13E | 50 lbs                | (225) | 6.30"      | (160) | 1.38"         | (35) | 500       |  |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Edge Clip and Tape Clip Combination

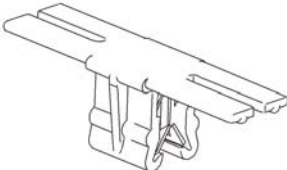
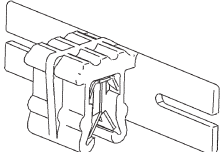
These clips can be secured to cables with cable ties or tape.

Material Data - Cable Tie and Tape Clip Combination

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS)</b> |
| Color                 | <b>Black</b>                                                           |
| Operating Temperature | <b>-40 °F to +230 °F (-40 °C to +110 °C) continuous</b>                |
| Flammability          | <b>UL94 HB</b>                                                         |



Product Selection

|                                          |           |      | Length (L) |        | Width (W) |        | Pkg. Qty. | Drawing                                                                               |
|------------------------------------------|-----------|------|------------|--------|-----------|--------|-----------|---------------------------------------------------------------------------------------|
| Article No.                              | Part No.  | Type | in.        | (mm)   | in.       | (mm)   |           |                                                                                       |
| Panel Thickness — .039" - .117" (1-3 mm) |           |      |            |        |           |        |           |                                                                                       |
| 151-03404                                | 151-03404 | EC14 | 1.57"      | (40.0) | .39"      | (10.0) | 500       |   |
| 151-03401                                | 151-03401 | EC15 | 1.57"      | (40.0) | .39"      | (10.0) | 500       |  |
| 151-03402                                | 151-03402 | EC16 | 1.57"      | (40.0) | .39"      | (10.0) | 500       |  |
| 151-03403                                | 151-03403 | EC17 | 1.57"      | (40.0) | .39"      | (10.0) | 500       |  |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties

### Button Head Ties

The button head tie is a two piece tie providing for parallel entry and exit through the head. The strap contains serrations on both sides and has two opposed pawls recessed within a domed head.

This design allows the strap to be directed clockwise or counter-clockwise prior to insertion into the head, enabling bi-directional looping.



### New and Improved Features

The button head tie offers many new and improved features for added durability and installation ease.

**Standoff tabs** — prevent tie head from seating in button during strap insertion

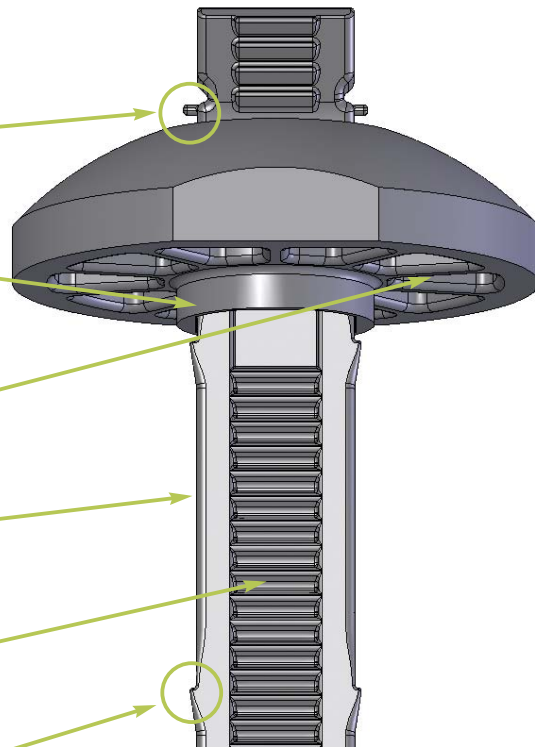
**Pilot bushing** - protects the strap from abrasion on the mounting hole edge

**Ribs** - increased ribs added to the bottom of the button head for added durability

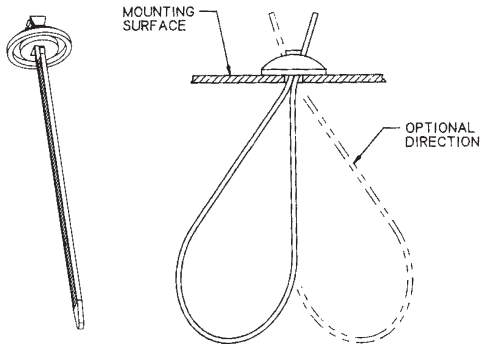
**Strap** - more radiused edges for added flexibility

**Serrations** - redesigned serrations and wedge design provide optimal strength when seated in the head

**Retainers** — lower retainers on BT130 help prevent the strap from backing out of the mounting hole and holds HellermannTyton's saddle mounts in place during assembly.

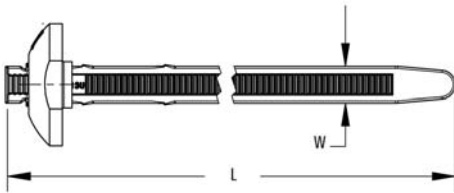


## Button Head Ties *continued*



### Material Data

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Cable Tie Material    | <b>Polyamide 6.6 high impact modified, heat stabilized (PA66HIRHS)</b> |
| Button Head Material  | <b>Polyamide 6.6 heat stabilized (PA66HS)</b>                          |
| Operating Temperature | <b>-40 °F to +221 °F (-40 °C to +105 °C) continuous</b>                |
| Color                 | <b>Black</b>                                                           |
| Flammability          | <b>UL94 HB</b>                                                         |



| Product Selection                                        |           |          | Min. Tensile Strength |       | Length (L) |         | Max. Ø Bundle |        | Width (W) |       | Color | Pkg. Qty. |
|----------------------------------------------------------|-----------|----------|-----------------------|-------|------------|---------|---------------|--------|-----------|-------|-------|-----------|
| Article No.                                              | Part No.  | Type     |                       |       |            |         |               |        |           |       |       |           |
|                                                          |           |          | lbs.                  | (N)   | in.        | (mm)    | in.           | (mm)   | in.       | (mm)  |       |           |
| BT105 Button Head Ties                                   |           |          |                       |       |            |         |               |        |           |       |       |           |
| 132-00010                                                | 132-00010 | BT105R   | 105 lbs               | (467) | 9.63"      | (244.4) | 2.62"         | (66.7) | .22"      | (5.6) | Black | 50        |
| 132-00011                                                | 132-00011 | BT105L   | 105 lbs               | (467) | 15"        | (381.5) | 4.33"         | (110)  | .22"      | (5.6) | Black | 50        |
| BT105 Button Head Ties with Pilot Bushings               |           |          |                       |       |            |         |               |        |           |       |       |           |
| 132-00006                                                | 132-00006 | BT105RP  | 105 lbs               | (467) | 9.63"      | (244.4) | 2.62"         | (66.7) | .22"      | (5.6) | Black | 50        |
| 132-00007                                                | 132-00007 | BT105LP  | 105 lbs               | (467) | 15"        | (381.5) | 4.33"         | (110)  | .22"      | (5.6) | Black | 50        |
| BT130 Button Head Ties with Retainers and Pilot Bushings |           |          |                       |       |            |         |               |        |           |       |       |           |
| 132-00008                                                | 132-00008 | BT130RDP | 130 lbs               | (578) | 10.51"     | (267.0) | 2.87"         | (73)   | .30"      | (7.6) | Black | 50        |
| 132-00009                                                | 132-00009 | BT130LDP | 130 lbs               | (578) | 15"        | (381.5) | 4.33"         | (110)  | .30"      | (7.6) | Black | 50        |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties

### EL-TY (Extended Length Ties)

HellermannTyton's El-Ty is a high strength strapping system used for supporting, securing, fastening, and spacing cables, as well as a variety of other applications requiring extra-long, extremely durable strapping.

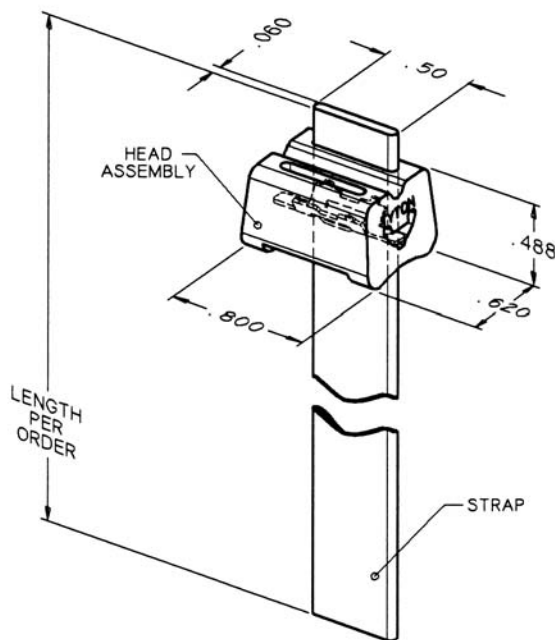
The El-Ty consists of a smooth strap and a separate, compact plastic head which encloses a stainless steel gripper. The stackable spacer accepts cable ties up to 1/2" wide for a versatile, easy to install spacing system.



Material Data- Strap and Head

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | <b>Polyacetal (POM)</b>                         |
| Color                 | <b>Black</b>                                    |
| Operating Temperature | <b>-40 °F to +185 °F<br/>(-40 °C to +85 °C)</b> |
| Flammability          | <b>UL94 HB</b>                                  |

RoHS

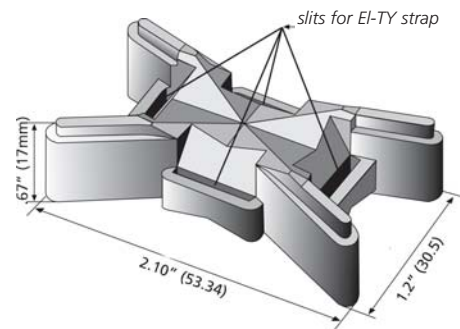


El-Ty Strap and Locking Head

Material Data- Spacer

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Material              | <b>Polypropylene,<br/>UV-resistant (PP)</b>                 |
| Color                 | <b>Black</b>                                                |
| Operating Temperature | <b>-40 °F to +239 °F (-40 °C to<br/>+115 °C) continuous</b> |
| Flammability          | <b>UL94 HB</b>                                              |

RoHS



El-Ty Spacer

Product Selection

| Article No. | Part No.          | Type       | Description                                   | Color | Pkg. Qty. |
|-------------|-------------------|------------|-----------------------------------------------|-------|-----------|
| 111-30000   | <b>TELS-1</b>     | TELS1      | 1 - 50 ft reel of strap and 30 heads          | Black | 1         |
| 111-31000   | <b>TELS-H</b>     | TELSH      | Double entry and locking heads                | Black | 25        |
| 111-32108   | <b>TELS-13</b>    | TELS-13    | 10 - 13.5" straps and 10 double locking heads | Black | 1         |
| 111-32110   | <b>TELS-27</b>    | TELS-27    | 10 - 27" straps and 10 double locking heads   | Black | 1         |
| 111-32111   | <b>TELS-5K</b>    | TELS-5K    | 5 - 50 ft. reels and 150 heads                | Black | 1         |
| 111-32107   | <b>TELS-10K</b>   | TELS-10K   | 10 - 50 ft. reels and 300 heads               | Black | 1         |
| 111-32000   | <b>TELS-SPK2</b>  | TELS-SPK2  | EL-TY Spacer                                  | Black | 50        |
| 111-32106   | <b>TELS-SPOOL</b> | TELS-SPOOL | 50 ft. reel of strap                          | Black | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Aerial Support Spacer Ties

Aerial support spacer ties are two piece ties designed for standard spacing applications. The strap is molded from special high impact polyamide 6.6. The support spacer and head are made from a high density outdoor black polypropylene. Both materials offer resistance to sunlight, saltwater, and harsh chemical environments.

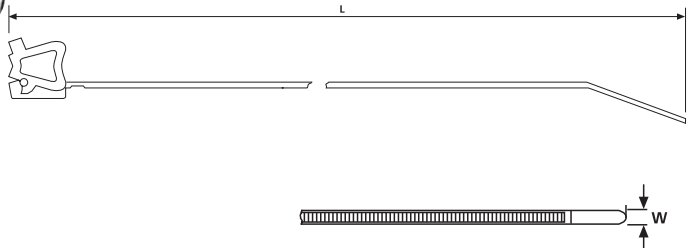
### Material Data- Strap

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 high impact modified (PA66HIR)</b>         |
| Color                 | <b>Black</b>                                                |
| Operating Temperature | <b>-40 °F to +230 °F<br/>(-40 °C to +110 °C) continuous</b> |
| Flammability          | <b>UL94 HB</b>                                              |



### Material Data-Spacer/Head

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Material              | <b>Polypropylene, UV-resistant (PP)</b>                     |
| Color                 | <b>Black</b>                                                |
| Operating Temperature | <b>-40 °F to +239 °F<br/>(-40 °C to +115 °C) continuous</b> |
| Flammability          | <b>UL94 HB</b>                                              |



### Product Selection

| Article No. | Part No.         | Type      | Min. Tensile Strength |       | Length (L) |         | Max. Ø Bundle |        | Width (W) |        | Color | Pkg. Qty. |
|-------------|------------------|-----------|-----------------------|-------|------------|---------|---------------|--------|-----------|--------|-------|-----------|
|             |                  |           | lbs.                  | (N)   | in.        | (mm)    | in.           | (mm)   | in.       | (mm)   |       |           |
| 111-98501   | <b>TAS100RWS</b> | TAS100RWS | 100 lbs               | (445) | 8.25"      | (209.6) | 1.75"         | (44.5) | .50"      | (12.7) | Black | 100       |
| 111-98500   | <b>TAS100MWS</b> | TAS100MWS | 100 lbs               | (445) | 10.7"      | (272.3) | 2.75"         | (70)   | .50"      | (12.7) | Black | 100       |
| 148-00022   | <b>TAS100LWS</b> | TAS100LWS | 100 lbs               | (445) | 16"        | (420)   | 4.5"          | (115)  | .50"      | (12.7) | Black | 100       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.  
Installation tools - MK9, MK9HT, MK9P.

## Kabelrap Bundling System

The patented Kabelrap bundling system offers a very high bundling strength and is particularly resistant to salt water, oils, greases, and hydraulic fluids. Special hand tool required for installation.



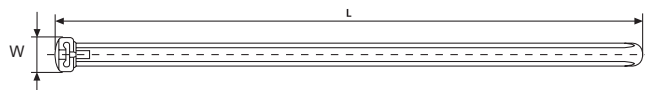
Required Tool - 121-00680



Kabelrap Application

### Material Data

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 UV-resistant (PA66UV)</b>             |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



### Product Selection

| Article No. | Part No.         | Type   | Min. Tensile Strength |       | Length (L) |       | Max. Ø Bundle |      | Width (W) |      | Color | Pkg. Qty. |
|-------------|------------------|--------|-----------------------|-------|------------|-------|---------------|------|-----------|------|-------|-----------|
|             |                  |        | lbs.                  | (N)   | in.        | (mm)  | in.           | (mm) | in.       | (mm) |       |           |
| 121-61860   | <b>121-61860</b> | KR6/18 | 110 lbs               | (490) | 7.25"      | (183) | 1.5"          | (39) | .24"      | (6)  | Black | 50        |
| 121-63560   | <b>121-63560</b> | KR6/35 | 110 lbs               | (490) | 14"        | (356) | 3.75"         | (93) | .25"      | (6)  | Black | 50        |
| 121-82160   | <b>121-82160</b> | KR8/21 | 175 lbs               | (785) | 8.25"      | (210) | 1.75"         | (47) | .31"      | (8)  | Black | 50        |
| 121-83360   | <b>121-83360</b> | KR8/33 | 175 lbs               | (785) | 13.25"     | (337) | 3.37"         | (86) | .31"      | (8)  | Black | 50        |

Required Installation Tool - 121-00680. Black is the standard color. Natural is available based upon minimums, custom terms and lead times.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Cable Ties

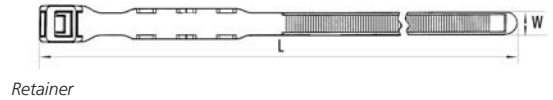
## Parallel Entry Ties

The parallel entry tie features a very low profile head, which enables the installed tie to lie flat on the bundle. Its sleek design enhances safety and fulfills the requirements of many diverse applications. The parallel entry tie features outside serrations to allow the smooth side of the tie to rest on a bundle, reducing any potential of wear due to abrasion from vibrations or movement. The parallel entry tie also offers an optional custom designed feature for foam applications, such as playground equipment. With child safety in mind, the patented retainer bumps on the strap allow the tie to grip into foam padded equipment eliminating slippage. The retainers also contain the tail of the tie eliminating the need to cut any excess material. This feature eliminates the potential for any sharp edges. Only a smooth surface is evident. The "PER" designation in the part number indicates the retainer feature.

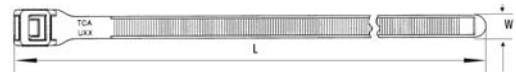


Retainer (PER) Version

| Material Data         |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 UV-resistant (PA66UV)</b>             |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



Retainer



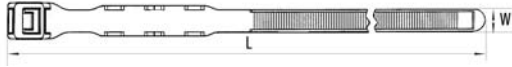
No Retainer

| Product Selection |                     |        | Min. Tensile Strength |         | Length (L) |         | Max. Ø Bundle |         | Width (W) |       | Color        | Pkg. Qty. |
|-------------------|---------------------|--------|-----------------------|---------|------------|---------|---------------|---------|-----------|-------|--------------|-----------|
| Article No.       | Part No.            | Type   |                       |         |            |         |               |         |           |       |              |           |
|                   |                     |        | lbs.                  | (N)     | in.        | (mm)    | in.           | (mm)    | in.       | (mm)  |              |           |
| <b>PE130S</b>     |                     |        |                       |         |            |         |               |         |           |       |              |           |
| 112-00700         | <b>PE130S0UVC2</b>  | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Black        | 100       |
| 112-00701         | <b>PE130S14UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Watermelon   | 100       |
| 112-00702         | <b>PE130S20UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Custom Blue  | 100       |
| 112-00703         | <b>PE130S22UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Lavender     | 100       |
| 112-00704         | <b>PE130S23UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Raspberry    | 100       |
| 112-00705         | <b>PE130S35UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Candy        | 100       |
| 112-00706         | <b>PE130S36UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Caramel      | 100       |
| 112-00707         | <b>PE130S37UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Cobalt Blue  | 100       |
| 112-00708         | <b>PE130S38UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Forest Green | 100       |
| 112-00709         | <b>PE130S39UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Grape        | 100       |
| 112-00710         | <b>PE130S40UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Rose Pink    | 100       |
| 112-00711         | <b>PE130S41UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Lemon Yellow | 100       |
| 112-00712         | <b>PE130S42UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Sky Blue     | 100       |
| 112-00713         | <b>PE130S43UVC2</b> | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Charcoal     | 100       |
| 112-00714         | <b>PE130S4UVC2</b>  | PE130S | 130 lbs               | (578.3) | 13.5"      | (342.9) | 4.0"          | (101.6) | .36"      | (9.1) | Yellow       | 100       |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

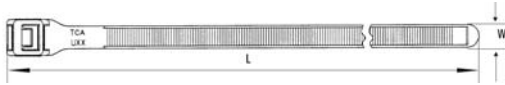


## Parallel Entry Ties *continued*



Retainer

| Material Data         |                                             |
|-----------------------|---------------------------------------------|
| Material              | <b>Polyamide 6.6 UV-resistant (PA66UV)</b>  |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C)</b> |
| Flammability          | <b>UL94 V2</b>                              |

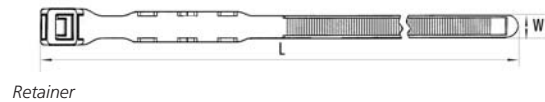


No Retainer

| Product Selection |                     |        | Min. Tensile Strength |         | Length (L) |         | Max. Ø Bundle |         | Width (W) |       | Color        | Pkg. Qty. |
|-------------------|---------------------|--------|-----------------------|---------|------------|---------|---------------|---------|-----------|-------|--------------|-----------|
| Article No.       | Part No.            | Type   | lbs.                  | (N)     | in.        | (mm)    | in.           | (mm)    | in.       | (mm)  |              |           |
| <b>PE130R</b>     |                     |        |                       |         |            |         |               |         |           |       |              |           |
| 112-00600         | <b>PE130R0UVC2</b>  | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Black        | 100       |
| 112-00601         | <b>PE130R14UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Watermelon   | 100       |
| 112-00602         | <b>PE130R17UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Tan          | 100       |
| 112-00603         | <b>PE130R1AUVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Chocolate    | 100       |
| 112-00604         | <b>PE130R20UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Custom Blue  | 100       |
| 112-00605         | <b>PE130R21UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Custom Green | 100       |
| 112-00606         | <b>PE130R22UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Lavender     | 100       |
| 112-00607         | <b>PE130R23UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Raspberry    | 100       |
| 112-00608         | <b>PE130R31UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Aquamarine   | 100       |
| 112-00609         | <b>PE130R35UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Candy        | 100       |
| 112-00610         | <b>PE130R36UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Caramel      | 100       |
| 112-00611         | <b>PE130R37UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Cobalt Blue  | 100       |
| 112-00612         | <b>PE130R38UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Forest Green | 100       |
| 112-00613         | <b>PE130R39UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Grape        | 100       |
| 112-00614         | <b>PE130R40UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Rose Pink    | 100       |
| 112-00615         | <b>PE130R41UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Lemon Yellow | 100       |
| 112-00616         | <b>PE130R42UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Sky Blue     | 100       |
| 112-00617         | <b>PE130R43UVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Charcoal     | 100       |
| 112-00618         | <b>PE130R4UVC2</b>  | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Yellow       | 100       |
| 112-00619         | <b>PE130R8AUVC2</b> | PE130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .36"      | (9.0) | Light Grey   | 100       |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties

Parallel Entry Ties *continued*

## Material Data

|                       |                                      |
|-----------------------|--------------------------------------|
| Material              | Polyamide 6.6 UV-resistant (PA66UV)  |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) |
| Flammability          | continuous                           |
|                       | UL94 V2                              |



## Product Selection

|             |               |         | Min. Tensile Strength |         | Length (L) |         | Max. Ø Bundle |         | Width (W) |        | Pkg. Qty.    |     |
|-------------|---------------|---------|-----------------------|---------|------------|---------|---------------|---------|-----------|--------|--------------|-----|
| Article No. | Part No.      | Type    | lbs.                  | (N)     | in.        | (mm)    | in.           | (mm)    | in.       | (mm)   |              |     |
| PER130R     |               |         |                       |         |            |         |               |         |           |        |              |     |
| 112-00800   | PER130R0UVC2  | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Black        | 100 |
| 112-00802   | PER130R14UVC2 | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Watermelon   | 100 |
| 112-00803   | PER130R20UVC2 | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Custom Blue  | 100 |
| 112-00804   | PER130R21UVC2 | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Custom Green | 100 |
| 112-00805   | PER130R23UVC2 | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Raspberry    | 100 |
| 112-00806   | PER130R31UVC2 | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Aquamarine   | 100 |
| 112-00807   | PER130R4UVC2  | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Yellow       | 100 |
| 112-00808   | PER130R6AUVC2 | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Light Blue   | 100 |
| 112-00809   | PER130R7UVC2  | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Purple       | 100 |
| 112-00810   | PER130R8AUVC2 | PER130R | 130 lbs               | (578.3) | 16.25"     | (413.0) | 4.84"         | (123.0) | .49"      | (12.4) | Light Grey   | 100 |
| PE130I      |               |         |                       |         |            |         |               |         |           |        |              |     |
| 112-00500   | PE130I0UVC2   | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Black        | 100 |
| 112-00501   | PE130I10UVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | White        | 100 |
| 112-00502   | PE130I14UVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Watermelon   | 100 |
| 112-00503   | PE130I17UVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Tan          | 100 |
| 112-00504   | PE130I20UVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Custom Blue  | 100 |
| 112-00505   | PE130I21UVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Custom Green | 100 |
| 112-00506   | PE130I22UVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Lavender     | 100 |
| 112-00507   | PE130I23UVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Raspberry    | 100 |
| 112-00508   | PE130I31UVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Aquamarine   | 100 |
| 112-00509   | PE130I32UVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Butterscotch | 100 |
| 112-00510   | PE130I4UVC2   | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Yellow       | 100 |
| 112-00511   | PE130I6AUVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Light Blue   | 100 |
| 112-00512   | PE130I8AUVC2  | PE130I  | 130 lbs               | (578.3) | 21"        | (533.0) | 6.22"         | (158.0) | .35"      | (9.0)  | Light Grey   | 100 |

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Stainless Steel Cable Ties

HellermannTyton's stainless steel ties are designed to secure hoses, cables, poles, pipes, and more when harsh environmental conditions may adversely affect the bundling application. Used where corrosion, vibration, weathering, radiation, and temperature extremes are a concern, HellermannTyton's stainless steel ties can be used in virtually any indoor, outdoor, and underground application.

### MK9SST Stainless Steel Cable Tie Installation Tool

| Product Selection |               |        |                                                                                                                                                                                                                                                                                                         |                                               |           |
|-------------------|---------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------|
| Article No.       | Part No.      | Type   | Description                                                                                                                                                                                                                                                                                             | Cable Tie Series                              | Pkg. Qty. |
| 110-95000         | <b>MK9SST</b> | MK9SST | Adapted for use with stainless steel ties, the MK9 Stainless Steel tool retains the same design features as the MK9 series. The MK9SST accommodates all HellermannTyton stainless steel ties. Comes standard with padded foam grips for comfort and control and a hook for hanging on a belt or tether. | All MBT Series for both 304 and 316 materials | 1         |

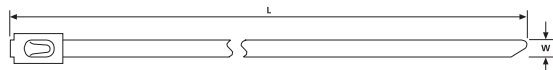
#### 304 Material

Grade 304 material is commonly used for stainless steel bundling applications and suits most general purpose requirements. It features the ability to withstand most environmental conditions, particularly in applications where vibration, general weathering, radiation and temperature extremes are a concern.

- Self locking, ball bearing mechanism for quick and easy installation, either by hand or by tensioning tool
- Fully enclosed head does not allow dirt or grit to interfere with locking mechanism
- High tensile strength option for added strength and safety on heavy duty applications



HellermannTyton's MK9SST tool is durable and lightweight offering superior stainless steel cable tie installation.



| Material Data         |                                                |
|-----------------------|------------------------------------------------|
| Material              | <b>Stainless Steel Type SS304 (SS304)</b>      |
| Operating Temperature | <b>-112 °F to +1000 °F (-80 °C to +538 °C)</b> |



| Product Selection            |          |         |                       |             |               |            |           |
|------------------------------|----------|---------|-----------------------|-------------|---------------|------------|-----------|
| Article No.                  | Part No. | Type    | Min. Tensile Strength | Length (L)  | Max. Ø Bundle | Width (W)  | Pkg. Qty. |
|                              |          |         | lbs. (N)              | in. (mm)    | in. (mm)      | in. (mm)   |           |
| 150 lb. Stainless Steel Ties |          |         |                       |             |               |            |           |
| 111-93058                    | MBT5S-S  | MBT5SS  | 150 lbs (670)         | 5.0" (127)  | 1" (25)       | .18" (4.6) | 100       |
| 111-93088                    | MBT8S-S  | MBT8SS  | 150 lbs (670)         | 7.9" (201)  | 2" (50)       | .18" (4.6) | 100       |
| 111-93148                    | MBT14S-S | MBT14SS | 150 lbs (670)         | 14.3" (362) | 4" (102)      | .18" (4.6) | 100       |
| 111-93208                    | MBT20S-S | MBT20SS | 150 lbs (670)         | 20.5" (521) | 6" (152)      | .18" (4.6) | 100       |
| 111-93278                    | MB27S-S  | MBT27SS | 150 lbs (670)         | 26.8" (681) | 8" (203)      | .18" (4.6) | 100       |
| 111-93338                    | MBT33S-S | MBT33SS | 150 lbs (670)         | 33" (838)   | 10" (254)     | .18" (4.6) | 100       |
| 250 lb. Stainless Steel Ties |          |         |                       |             |               |            |           |
| 111-94088                    | MBT8H-S  | MBT8HS  | 250 lbs (1115)        | 7.9" (201)  | 2" (50)       | .31" (7.9) | 50        |
| 111-94148                    | MBT14H-S | MBT14HS | 250 lbs (1115)        | 14.3" (362) | 4" (102)      | .31" (7.9) | 50        |
| 111-94208                    | MBT20H-S | MBT20HS | 250 lbs (1115)        | 20.5" (521) | 6" (152)      | .31" (7.9) | 50        |
| 111-94278                    | MBT27H-S | MBT27HS | 250 lbs (1115)        | 26.8" (681) | 8" (203)      | .31" (7.9) | 50        |
| 111-94338                    | MBT33H-S | MBT33HS | 250 lbs (1115)        | 33" (838)   | 10" (254)     | .31" (7.9) | 50        |

Installation tools for the above cable ties - MK9SST Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. Stainless steel ties and materials should be tested thoroughly under end use conditions to determine suitability for the application.

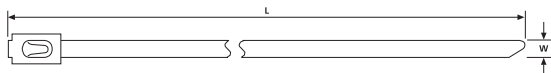
Stainless Steel Cable Ties *continued***316 Material**

Grade 316 material is highly resistant to corrosion and widely used in marine environments where chemicals, salts, acids, and temperature extremes may affect the bundling application. MBT stainless steel ties in 316 steel material are also available with a nylon 11 protective coating. This coating creates a barrier and protectant from chemical reactions of dissimilar metals.



- Self locking, ball bearing mechanism for quick and easy installation, either by hand or by tensioning tool
- Fully enclosed head does not allow dirt or grit to interfere with locking mechanism
- High tensile strength option available for added strength and safety on heavy duty applications

| Material Data         |                                                |
|-----------------------|------------------------------------------------|
| Material              | <b>Stainless Steel Type SS316 (SS316)</b>      |
| Operating Temperature | <b>-112 °F to +1000 °F (-80 °C to +538 °C)</b> |



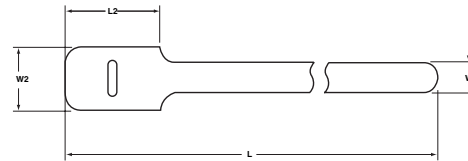
| Product Selection                   |               |        | Min. Tensile Strength | Length (L)  | Max. Ø Bundle | Width (W)  | Pkg. Qty. |
|-------------------------------------|---------------|--------|-----------------------|-------------|---------------|------------|-----------|
| Article No.                         | Part No.      | Type   | lbs. (N)              | in. (mm)    | in. (mm)      | in. (mm)   |           |
| <b>150 lb. Stainless Steel Ties</b> |               |        |                       |             |               |            |           |
| 111-93959                           | <b>MBT5S</b>  | MBT5S  | 150 lbs (670)         | 5.0" (127)  | 1.0" (25.4)   | .18" (4.6) | 100       |
| 111-93089                           | <b>MBT8S</b>  | MBT8S  | 150 lbs (670)         | 7.9" (201)  | 2.0" (50)     | .18" (4.6) | 100       |
| 111-93149                           | <b>MBT14S</b> | MBT14S | 150 lbs (670)         | 14.3" (362) | 4.0" (102)    | .18" (4.6) | 100       |
| 111-93209                           | <b>MBT20S</b> | MBT20S | 150 lbs (670)         | 20.5" (521) | 6.0" (152)    | .18" (4.6) | 100       |
| 111-93279                           | <b>MBT27S</b> | MBT27S | 150 lbs (670)         | 26.8" (681) | 8.0" (203)    | .18" (4.6) | 100       |
| 111-93339                           | <b>MBT33S</b> | MBT33S | 150 lbs (670)         | 33.0" (838) | 10.0" (254)   | .18" (4.6) | 100       |
| <b>250 lb. Stainless Steel Ties</b> |               |        |                       |             |               |            |           |
| 111-94089                           | <b>MBT8H</b>  | MBT8H  | 250 lbs (1115)        | 7.9" (201)  | 2.0" (50.8)   | .31" (7.9) | 50        |
| 111-94149                           | <b>MBT14H</b> | MBT14H | 250 lbs (1115)        | 14.3" (362) | 4.0" (102)    | .31" (7.9) | 50        |
| 111-94209                           | <b>MBT20H</b> | MBT20H | 250 lbs (1115)        | 20.5" (521) | 6.0" (152)    | .31" (7.9) | 50        |
| 111-94279                           | <b>MBT27H</b> | MBT27H | 250 lbs (1115)        | 26.8" (681) | 8.0" (203)    | .31" (7.9) | 50        |
| 111-94339                           | <b>MBT33H</b> | MBT33H | 250 lbs (1115)        | 33.0" (838) | 10.0" (254)   | .31" (7.9) | 50        |

Installation tools for the above cable ties - MK9SST Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. Stainless steel ties and materials should be tested thoroughly under end use conditions to determine suitability for the application.

## Grip Tie Straps

The Grip Tie is a low profile, one piece fastening device. Constructed of polyethylene hook and nylon loop and laminated back to back, the Grip Tie features quick release for repetitive access to cable and wire. It can be opened and closed numerous times without failure. The Grip Tie is reusable, adjustable, releasable, and easy to install.

Available in rolls and straps in 6", 8", 11" and 15" sizes. Grip Ties are available in a variety of colors and are versatile enough for applications ranging from network installations to bundling power cords. Grip Ties are also customizable with your company name (minimum quantities apply).



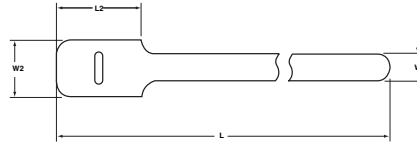
### Product Selection

|              |             |          | Min. Tensile Strength | Length (L) | Max. Ø Bundle | Width (W)     | Width (W2)   | Length (L2) |        | Pkg. Qty. |
|--------------|-------------|----------|-----------------------|------------|---------------|---------------|--------------|-------------|--------|-----------|
| Article No.  | Part No.    | Type     | lbs. (N)              | in. (mm)   | in. (mm)      | in. (mm)      | in. (mm)     | in. (mm)    | Color  |           |
| 6" Grip Ties |             |          |                       |            |               |               |              |             |        |           |
| 854-44316    | GT.375X60C2 | GT.375X6 | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .375" (9.525) | .75" (19.05) | 1.5" (38.1) | Black  | 100       |
| 854-44339    | GT.50X60P2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 10        |
| 854-44336    | GT.50X60C2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44342    | GT.50X62P2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Red    | 10        |
| 854-44341    | GT.50X62C2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44344    | GT.50X63P2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Orange | 10        |
| 854-44343    | GT.50X63C2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44346    | GT.50X64P2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Yellow | 10        |
| 854-44345    | GT.50X64C2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44348    | GT.50X65P2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Green  | 10        |
| 854-44347    | GT.50X65C2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44350    | GT.50X66P2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Blue   | 10        |
| 854-44349    | GT.50X66C2  | GT.50X6  | 40 lbs (177.93)       | 6" (152.4) | 1" (25.4)     | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 8" Grip Ties |             |          |                       |            |               |               |              |             |        |           |
| 854-44355    | GT.50X80P2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Black  | 10        |
| 854-44353    | GT.50X80C2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44358    | GT.50X82P2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Red    | 10        |
| 854-44357    | GT.50X82C2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44360    | GT.50X83P2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Orange | 10        |
| 854-44359    | GT.50X83C2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44362    | GT.50X84P2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Yellow | 10        |
| 854-44361    | GT.50X84C2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44364    | GT.50X85P2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Green  | 10        |
| 854-44363    | GT.50X85C2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |
| 854-44366    | GT.50X86P2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) | Blue   | 10        |
| 854-44365    | GT.50X86C2  | GT.50X8  | 40 lbs (177.93)       | 8" (203.2) | 1.75" (44.45) | .5" (12.7)    | 1" (25.4)    | 1.5" (38.1) |        | 100       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Grip Ties

### Grip Tie Straps *continued*



| Product Selection |             |          |                       |             |                |              |             |             |        |           |  |
|-------------------|-------------|----------|-----------------------|-------------|----------------|--------------|-------------|-------------|--------|-----------|--|
| Article No.       | Part No.    | Type     | Min. Tensile Strength | Length (L)  | Max. Ø Bundle  | Width (W)    | Width (W2)  | Length (L2) | Color  | Pkg. Qty. |  |
|                   |             |          | lbs. (N)              | in. (mm)    | in. (mm)       | in. (mm)     | in. (mm)    | in. (mm)    |        |           |  |
| 11" Grip Ties     |             |          |                       |             |                |              |             |             |        |           |  |
| 854-44320         | GT.50X110P2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) | Black  | 10        |  |
| 854-44317         | GT.50X110C2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) |        | 100       |  |
| 854-44323         | GT.50X112P2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) | Red    | 10        |  |
| 854-44322         | GT.50X112C2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) |        | 100       |  |
| 854-44325         | GT.50X113P2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) | Orange | 10        |  |
| 854-44324         | GT.50X113C2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) |        | 100       |  |
| 854-44327         | GT.50X114P2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) | Yellow | 10        |  |
| 854-44326         | GT.50X114C2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) |        | 100       |  |
| 854-44329         | GT.50X115P2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) | Green  | 10        |  |
| 854-44328         | GT.50X115C2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) |        | 100       |  |
| 854-44331         | GT.50X116P2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) | Blue   | 10        |  |
| 854-44330         | GT.50X116C2 | GT.50X11 | 40 lbs (177.93)       | 11" (279.4) | 2.63" (66.802) | .5" (12.7)   | 1" (25.4)   | 1.5" (38.1) |        | 100       |  |
| 15" Grip Ties     |             |          |                       |             |                |              |             |             |        |           |  |
| 854-44371         | GT.75X150P2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) | Black  | 10        |  |
| 854-44369         | GT.75X150C2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) |        | 100       |  |
| 854-44374         | GT.75X152P2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) | Red    | 10        |  |
| 854-44373         | GT.75X152C2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) |        | 100       |  |
| 854-44376         | GT.75X153P2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) | Orange | 10        |  |
| 854-44375         | GT.75X153C2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) |        | 100       |  |
| 854-44377         | GT.75X154C2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) | Yellow | 100       |  |
| 854-44378         | GT.75X154P2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) |        | 10        |  |
| 854-44380         | GT.75X155P2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) | Green  | 10        |  |
| 854-44379         | GT.75X155C2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) |        | 100       |  |
| 854-44382         | GT.75X156P2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) | Blue   | 10        |  |
| 854-44381         | GT.75X156C2 | GT.75X15 | 50 lbs (222.41)       | 15" (381)   | 3.88" (98.552) | .75" (19.05) | 1.5" (38.1) | 2.5" (63.5) |        | 100       |  |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### Grip Tie Rolls

For custom-cut lengths, HellermannTyton offers the hook and loop strap on a five yard and 25 yard roll. Ideal for job site applications, desired lengths can be cut on the spot.



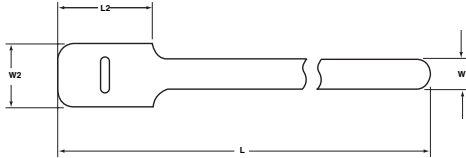
| Product Selection |            |           | Width (W) |         | Color  | Pkg. Qty.        |
|-------------------|------------|-----------|-----------|---------|--------|------------------|
| Article No.       | Part No.   | Type      | in.       | (mm)    |        |                  |
| 854-44384         | GT.75X1800 | GT.75X180 | .75"      | (19.05) | Black  | 180" (5 yds.)    |
| 854-44388         | GT.75X1802 | GT.75X180 | .75"      | (19.05) | Red    | 180" (5 yds.)    |
| 854-44389         | GT.75X1803 | GT.75X180 | .75"      | (19.05) | Orange | 180" (5 yds.)    |
| 854-44390         | GT.75X1804 | GT.75X180 | .75"      | (19.05) | Yellow | 180" (5 yds.)    |
| 854-44391         | GT.75X1805 | GT.75X180 | .75"      | (19.05) | Green  | 180" (5 yds.)    |
| 854-44392         | GT.75X1806 | GT.75X180 | .75"      | (19.05) | Blue   | 180" (5 yds.)    |
| 854-44395         | GT.75X6000 | GT.75X600 | .75"      | (19.05) | Black  | 600" (16.6 yds.) |
| 854-44396         | GT.75X9000 | GT.75X900 | .75"      | (19.05) | Black  | 900" (25 yds.)   |
| 854-44397         | GT.75X9004 | GT.75X900 | .75"      | (19.05) | Yellow | 900" (25 yds.)   |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Write-on Grip Ties

In situations where instant identification is needed, HellermannTyton provides Grip Ties with a white write-on area. This smudge-free surface is ideal for fast and easy identification with a ballpoint pen or felt-tip marker. The write-on area is approximately 3/8"(H) x 1-1/4"(W). It is positioned in the center of the black 6", 8" and 11" straps, as well as spaced every 12" on the Grip Tie rolls.

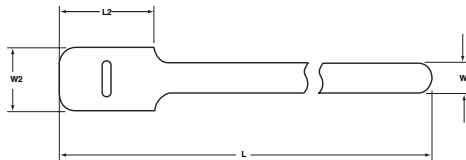


| Product Selection |              |            | Min. Tensile Strength |          | Length (L) |          | Max. Ø Bundle |         | Width (W) |         | Width (W2) |        | Length (L2) |        | Color | Pkg. Qty. |
|-------------------|--------------|------------|-----------------------|----------|------------|----------|---------------|---------|-----------|---------|------------|--------|-------------|--------|-------|-----------|
| Article No.       | Part No.     | Type       | lbs. (N)              |          | in. (mm)   |          | in. (mm)      |         | in. (mm)  |         | in. (mm)   |        | in. (mm)    |        |       |           |
| 854-44340         | GT.50X60P2W  | GT.50X6W   | 40 lbs                | (177.93) | 6"         | (152.4)  | 1"            | (25.4)  | .5"       | (12.7)  | 1"         | (25.4) | 1.5"        | (38.1) | Black | 10        |
| 854-44338         | GT.50X60C2W  | GT.50X6W   | 40 lbs                | (177.93) | 6"         | (152.4)  | 1"            | (25.4)  | .5"       | (12.7)  | 1"         | (25.4) | 1.5"        | (38.1) | Black | 100       |
| 854-44356         | GT.50X80P2W  | GT.50X8W   | 40 lbs                | (177.93) | 8"         | (203.2)  | 1.75"         | (44.45) | .5"       | (12.7)  | 1"         | (25.4) | 1.5"        | (38.1) | Black | 10        |
| 854-44354         | GT.50X80C2W  | GT.50X8W   | 40 lbs                | (177.93) | 8"         | (203.2)  | 1.75"         | (44.45) | .5"       | (12.7)  | 1"         | (25.4) | 1.5"        | (38.1) | Black | 100       |
| 854-44321         | GT.50X110P2W | GT.50X11W  | 40 lbs                | (177.93) | 11"        | (279.4)  | 2.63"         | (66.8)  | .5"       | (12.7)  | 1"         | (25.4) | 1.5"        | (38.1) | Black | 10        |
| 854-44319         | GT.50X110C2W | GT.50X11W  | 40 lbs                | (177.93) | 11"        | (279.4)  | 2.63"         | (66.8)  | .5"       | (12.7)  | 1"         | (25.4) | 1.5"        | (38.1) | Black | 10        |
| 854-44386         | GT.75X1800W  | GT.75X180W | -                     | -        | 180"       | (5 Yds.) | -             | -       | .75"      | (19.05) | -          | -      | -           | -      | Black | 180"      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Grip Ties for Plenum Applications

HellermannTyton offers UL94V-2 flame rated Grip Ties for use in air handling spaces. These Grip Ties are UL Listed in accordance with the National Electrical Code regulations. They are available in three lengths as well as a 180" roll.



| Product Selection |               |           | Min. Tensile Strength |          | Length (L) |         | Max. Ø Bundle |        | Width (W) |         | Width (W2) |        | Length (L2) |        | Color  | Pkg. Qty. |
|-------------------|---------------|-----------|-----------------------|----------|------------|---------|---------------|--------|-----------|---------|------------|--------|-------------|--------|--------|-----------|
| Article No.       | Part No.      | Type      | lbs. (N)              |          | in. (mm)   |         | in. (mm)      |        | in. (mm)  |         | in. (mm)   |        | in. (mm)    |        |        |           |
| 854-44352         | GT.50X6MP2V2  | GT.50X6   | 40 lbs                | (177.93) | 6"         | (152.4) | 1"            | (25.4) | .5"       | (12.7)  | 1"         | (25.4) | 1.5"        | (38.1) | Maroon | 10        |
| 854-44368         | GT.50X8MP2V2  | GT.50X8   | 40 lbs                | (177.93) | 8"         | (203.2) | 1.91"         | (48.5) | .5"       | (12.7)  | 1"         | (25.4) | 1.5"        | (38.1) | Maroon | 10        |
| 854-44334         | GT.50X12MP2V2 | GT.50X12  | 40 lbs                | (177.93) | 12"        | (304.8) | 3.18"         | (80.7) | .5"       | (12.7)  | 1"         | (25.4) | 1.5"        | (38.1) | Maroon | 10        |
| 854-44394         | GT.75X180MV2  | GT.75X180 | -                     | -        | -          | -       | -             | -      | .75"      | (19.05) | -          | -      | -           | -      | Maroon | 180"      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



# Cable Tie Mounts

## Cable Tie Mounts

HellermannTyton offers a wide variety of mounting bases suited for many applications. Mounting bases are used in conjunction with cable ties to stabilize and secure wiring bundles, both indoors and outdoors. These mounting bases can be secured to a surface using rubber based adhesive, acrylic adhesive, or also can be screw mounted.

## Cable Tie Mounting Bases

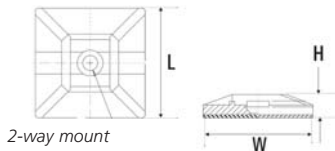
HellermannTyton's 4-way mounting bases are available in four sizes to accommodate T18 through T150 series cable ties. Insertion of ties can be made from all four sides. Each mount may be secured with two screws (four screws for the MB2.5 mount), with adhesive backing, or both, for ease of application and stability.

For applications where higher temperatures, certain chemicals, or UV radiation are a concern and an adhesive is the preferred method for securing, the acrylic adhesive 4-way mounting bases are recommended. The 2-way mounting bases may be secured with one screw, with adhesive backing, or both, and allow ties to be inserted from two sides.

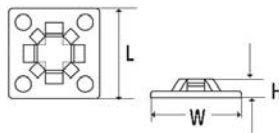


Adhesive mounts are supplied in pairs connected together on an adhesive liner.

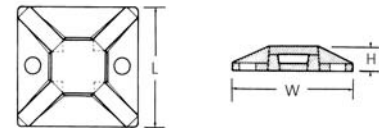
| Material Data         |                                                            |
|-----------------------|------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                                |
| Operating Temperature | <b>-40 °F to +185 °F<br/>(-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2 (excluding adhesive)</b>                        |



2-way mount



4-way, MB2.5 mount



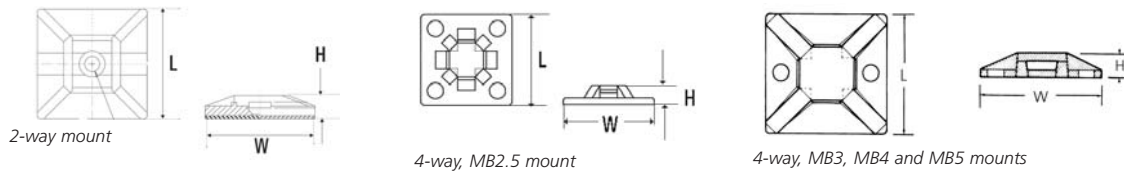
4-way, MB3, MB4 and MB5 mounts

## Cable Tie Mounting Bases - Screw Mount

**US**  
File# E64139

| Product Selection  |           |       |                  |           |                |                |              |      |            |      |       |           |
|--------------------|-----------|-------|------------------|-----------|----------------|----------------|--------------|------|------------|------|-------|-----------|
| Article No.        | Part No.  | Type  | Cable Tie Series | Mounting  | Length (L)     |                | Width (W)    |      | Height (H) |      | Color | Pkg. Qty. |
|                    |           |       |                  |           | in.            | (mm)           | in.          | (mm) | in.        | (mm) |       |           |
| 2- Way Screw Mount |           |       |                  |           |                |                |              |      |            |      |       |           |
| 151-29104          | MB45H10C2 | MB45H | T18 - T50        | # 6 Screw | 1.115" (28.32) | 1.115" (28.32) | .202" (5.13) |      | White      | 100  |       |           |
| 151-00323          | MB45H10H4 | MB45H |                  |           | 1.115" (28.32) | 1.115" (28.32) | .202" (5.13) |      | White      | 500  |       |           |
| 151-29100          | MB45H0C2  | MB45H |                  |           | 1.115" (28.32) | 1.115" (28.32) | .202" (5.13) |      | Black      | 100  |       |           |
| 151-29101          | MB45H0H4  | MB45H |                  |           | 1.115" (28.32) | 1.115" (28.32) | .202" (5.13) |      | Black      | 500  |       |           |
| 4- Way Screw Mount |           |       |                  |           |                |                |              |      |            |      |       |           |
| 151-28901          | MB2.510C2 | MB2.5 | T18              | # 3 Screw | .625" (15.88)  | .625" (15.88)  | .130" (3.3)  |      | White      | 100  |       |           |
| 151-28902          | MB2.510M4 | MB2.5 |                  |           | .625" (15.88)  | .625" (15.88)  | .130" (3.3)  |      | White      | 1000 |       |           |
| 151-00285          | MB2.50C2  | MB2.5 |                  |           | .625" (15.88)  | .625" (15.88)  | .130" (3.3)  |      | Black      | 100  |       |           |
| 151-00286          | MB2.50M4  | MB2.5 |                  |           | .625" (15.88)  | .625" (15.88)  | .130" (3.3)  |      | Black      | 1000 |       |           |
| 151-28302          | MB310C2   | MB3   | T18, T30         | #4 Screw  | .75" (19.0)    | .75" (19.0)    | .15" (3.8)   |      | White      | 100  |       |           |
| 151-28305          | MB310M4   | MB3   |                  |           | .75" (19.0)    | .75" (19.0)    | .15" (3.8)   |      | White      | 1000 |       |           |
| 151-00136          | MB30C2    | MB3   |                  |           | .75" (19.0)    | .75" (19.0)    | .15" (3.8)   |      | Black      | 100  |       |           |
| 151-28301          | MB30M4    | MB3   |                  |           | .75" (19.0)    | .75" (19.0)    | .15" (3.8)   |      | Black      | 1000 |       |           |
| 151-28802          | MB410C2   | MB4   | T18 - T50        | #8 Screw  | 1.12" (28.5)   | 1.12" (28.5)   | .19" (4.8)   |      | White      | 100  |       |           |
| 151-00319          | MB410H4   | MB4   |                  |           | 1.12" (28.5)   | 1.12" (28.5)   | .19" (4.8)   |      | White      | 500  |       |           |
| 151-00320          | MB40C2    | MB4   |                  |           | 1.12" (28.5)   | 1.12" (28.5)   | .19" (4.8)   |      | Black      | 100  |       |           |
| 151-28801          | MB40H4    | MB4   |                  |           | 1.12" (28.5)   | 1.12" (28.5)   | .19" (4.8)   |      | Black      | 500  |       |           |
| 151-00324          | MB510C2   | MB5   | T18 - T150       | #8 Screw  | 1.485" (37.7)  | 1.485" (37.7)  | .245" (6.2)  |      | White      | 100  |       |           |
| 151-28504          | MB510F4   | MB5   |                  |           | 1.485" (37.7)  | 1.485" (37.7)  | .245" (6.2)  |      | White      | 250  |       |           |
| 151-28500          | MB50C2    | MB5   |                  |           | 1.485" (37.7)  | 1.485" (37.7)  | .245" (6.2)  |      | Black      | 100  |       |           |
| 151-28501          | MB50F4    | MB5   |                  |           | 1.485" (37.7)  | 1.485" (37.7)  | .245" (6.2)  |      | Black      | 250  |       |           |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Cable Tie Mounting Bases *continued*

## Cable Tie Mounting Bases - Rubber-Based Adhesive

CALUS  
File# E64139

| Product Selection                         |            |        |                  |          |                |                |              |       |           |
|-------------------------------------------|------------|--------|------------------|----------|----------------|----------------|--------------|-------|-----------|
| Article No.                               | Part No.   | Type   | Cable Tie Series | Mounting | Length (L)     | Width (W)      | Height (H)   | Color | Pkg. Qty. |
|                                           |            |        |                  |          | in. (mm)       | in. (mm)       | in. (mm)     |       |           |
| 2- Way Mount with Rubber - Based Adhesive |            |        |                  |          |                |                |              |       |           |
| 151-29203                                 | MB4SHA10C2 | MB4SHA | T18 - T50        | Adhesive | 1.115" (28.32) | 1.115" (28.32) | .232" (5.89) | White | 100       |
| 151-29206                                 | MB4SHA10H4 | MB4SHA |                  |          | 1.115" (28.32) | 1.115" (28.32) | .232" (5.89) | White | 500       |
| 151-29200                                 | MB4SHA0C2  | MB4SHA |                  |          | 1.115" (28.32) | 1.115" (28.32) | .232" (5.89) | Black | 100       |
| 4- Way Mount with Rubber - Based Adhesive |            |        |                  |          |                |                |              |       |           |
| 151-29002                                 | MB2.5A10C2 | MB2.5A | T18              | Adhesive | .625" (15.88)  | .625" (15.88)  | .160" (4.1)  | White | 100       |
| 151-00298                                 | MB2.5A10M4 | MB2.5A |                  |          | .625" (15.88)  | .625" (15.88)  | .160" (4.1)  | White | 1000      |
| 151-29000                                 | MB2.5A0C2  | MB2.5A |                  |          | .625" (15.88)  | .625" (15.88)  | .160" (4.1)  | Black | 100       |
| 151-29001                                 | MB2.5A0M4  | MB2.5A |                  |          | .625" (15.88)  | .625" (15.88)  | .160" (4.1)  | Black | 1000      |
| 151-28718                                 | MB3A10C2   | MB3A   | T18, T30         | Adhesive | .75" (19.0)    | .75" (19.0)    | .18" (4.6)   | White | 100       |
| 151-28721                                 | MB3A10M4   | MB3A   |                  |          | .75" (19.0)    | .75" (19.0)    | .18" (4.6)   | White | 1000      |
| 151-28710                                 | MB3A0C2    | MB3A   |                  |          | .75" (19.0)    | .75" (19.0)    | .18" (4.6)   | Black | 100       |
| 151-28713                                 | MB3A0M4    | MB3A   |                  |          | .75" (19.0)    | .75" (19.0)    | .18" (4.6)   | Black | 1000      |
| 151-28421                                 | MB4A10C2   | MB4A   | T18 - T50        | Adhesive | 1.12" (28.0)   | 1.12" (28.0)   | .22" (5.6)   | White | 100       |
| 151-00321                                 | MB4A10H4   | MB4A   |                  |          | 1.12" (28.0)   | 1.12" (28.0)   | .22" (5.6)   | White | 500       |
| 151-28403                                 | MB4A0C2    | MB4A   |                  |          | 1.12" (28.0)   | 1.12" (28.0)   | .22" (5.6)   | Black | 100       |
| 151-28406                                 | MB4A0H4    | MB4A   |                  |          | 1.12" (28.0)   | 1.12" (28.0)   | .22" (5.6)   | Black | 500       |
| 151-28529                                 | MB5A10C2   | MB5A   | T18 - T150       | Adhesive | 1.485" (37.7)  | 1.485" (37.7)  | .275" (6.9)  | White | 100       |
| 151-00427                                 | MB5A10F4   | MB5A   |                  |          | 1.485" (37.7)  | 1.485" (37.7)  | .275" (6.9)  | White | 250       |
| 151-28602                                 | MB5A0C2    | MB5A   |                  |          | 1.485" (37.7)  | 1.485" (37.7)  | .275" (6.9)  | Black | 100       |
| 151-28605                                 | MB5A0F4    | MB5A   |                  |          | 1.485" (37.7)  | 1.485" (37.7)  | .275" (6.9)  | Black | 250       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Tie Mounting Bases - Acrylic Adhesive

| Product Selection                    |            |      |                  |          |               |               |             |       |           |
|--------------------------------------|------------|------|------------------|----------|---------------|---------------|-------------|-------|-----------|
| Article No.                          | Part No.   | Type | Cable Tie Series | Mounting | Length (L)    | Width (W)     | Height (H)  | Color | Pkg. Qty. |
|                                      |            |      |                  |          | in. (mm)      | in. (mm)      | in. (mm)    |       |           |
| 4 - Way Screw Mount Acrylic Adhesive |            |      |                  |          |               |               |             |       |           |
| 151-00331                            | MB3A10A2C2 | MB3A | T18, T30         | Adhesive | .75" (19.0)   | .75" (19.0)   | .18" (4.6)  | White | 100       |
| 151-28717                            | MB3A10A2H4 | MB3A |                  |          | .75" (19.0)   | .75" (19.0)   | .18" (4.6)  | White | 500       |
| 151-28711                            | MB3A0A2C2  | MB3A |                  |          | .75" (19.0)   | .75" (19.0)   | .18" (4.6)  | Black | 100       |
| 151-28709                            | MB3A0A2H4  | MB3A |                  |          | .75" (19.0)   | .75" (19.0)   | .18" (4.6)  | Black | 500       |
| 151-28420                            | MB4A10A2C2 | MB4A | T18 - T50        | Adhesive | 1.12" (28.5)  | 1.12" (28.5)  | .23" (5.9)  | White | 100       |
| 151-00322                            | MB4A10A2H4 | MB4A |                  |          | 1.12" (28.5)  | 1.12" (28.5)  | .23" (5.9)  | White | 500       |
| 151-28402                            | MB4A0A2C2  | MB4A |                  |          | 1.12" (28.5)  | 1.12" (28.5)  | .23" (5.9)  | Black | 100       |
| 151-28405                            | MB4A0A2H4  | MB4A |                  |          | 1.12" (28.5)  | 1.12" (28.5)  | .23" (5.9)  | Black | 500       |
| 151-28607                            | MB5A10A2C2 | MB5A | T18 - T150       | Adhesive | 1.485" (37.7) | 1.485" (37.7) | .275" (6.9) | White | 100       |
| 151-28610                            | MB5A10A2F4 | MB5A |                  |          | 1.485" (37.7) | 1.485" (37.7) | .275" (6.9) | White | 250       |
| 151-28600                            | MB5A0A2C2  | MB5A |                  |          | 1.485" (37.7) | 1.485" (37.7) | .275" (6.9) | Black | 100       |
| 151-28604                            | MB5A10A2F4 | MB5A |                  |          | 1.485" (37.7) | 1.485" (37.7) | .275" (6.9) | Black | 250       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

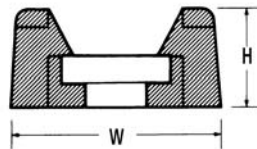
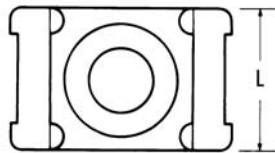
## Cable Tie Mounts

## Cable Tie Mounts

The CTM series is designed to provide stability to wire bundles. These mounts can accommodate miniature, intermediate, or standard cross-section cable ties. Each mount is secured with a single screw.



| Material Data         |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                         |



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File# E64139

## Product Selection

| Product Selection |          |      |                  |               |               |               |              |       |           |
|-------------------|----------|------|------------------|---------------|---------------|---------------|--------------|-------|-----------|
| Article No.       | Part No. | Type | Cable Tie Series | Mounting      | Length (L)    | Width (W)     | Height (H)   | Color | Pkg. Qty. |
|                   |          |      |                  |               | in. (mm)      | in. (mm)      | in. (mm)     |       |           |
| 151-30303         | CTM010C2 | CTM0 | T18 - T50        | # 6 Screw     | .578" (14.68) | .375" (9.52)  | .266" (6.76) | White | 100       |
| 151-30305         | CTM010M4 |      |                  |               | .578" (14.68) | .375" (9.52)  | .266" (6.76) | White | 1000      |
| 151-30300         | CTM00C2  |      |                  |               | .578" (14.68) | .375" (9.52)  | .266" (6.76) | Black | 100       |
| 151-30301         | CTM00M4  |      |                  |               | .578" (14.68) | .375" (9.52)  | .266" (6.76) | Black | 1000      |
| 151-30404         | CTM110C2 | CTM1 |                  | # 8 Screw     | .579" (14.71) | .370" (9.40)  | .266" (6.76) | White | 100       |
| 151-30406         | CTM110M4 |      |                  |               | .579" (14.71) | .370" (9.40)  | .266" (6.76) | White | 1000      |
| 151-30400         | CTM10C2  |      |                  |               | .579" (14.71) | .370" (9.40)  | .266" (6.76) | Black | 100       |
| 151-30402         | CTM10M4  |      |                  |               | .579" (14.71) | .370" (9.40)  | .266" (6.76) | Black | 1000      |
| 151-30504         | CTM210C2 | CTM2 | T18 -T120        |               | .857" (21.77) | .605" (15.37) | .372" (9.45) | White | 100       |
| 151-30506         | CTM210M4 |      |                  |               | .857" (21.77) | .605" (15.37) | .372" (9.45) | White | 1000      |
| 151-30500         | CTM20C2  |      |                  |               | .857" (21.77) | .605" (15.37) | .372" (9.45) | Black | 100       |
| 151-30501         | CTM20M4  |      |                  |               | .857" (21.77) | .605" (15.37) | .372" (9.45) | Black | 1000      |
| 151-30605         | CTM310C2 | CTM3 |                  | #10 Screw     | .858" (21.79) | .609" (15.47) | .374" (9.50) | White | 100       |
| 151-30607         | CTM310M4 |      |                  |               | .858" (21.79) | .609" (15.47) | .374" (9.50) | White | 1000      |
| 151-30600         | CTM30C2  |      |                  |               | .858" (21.79) | .609" (15.47) | .374" (9.50) | Black | 100       |
| 151-30603         | CTM30M4  |      |                  |               | .858" (21.79) | .609" (15.47) | .374" (9.50) | Black | 1000      |
| 151-30703         | CTM410C2 | CTM4 | #.25" Screw      | .864" (21.95) | .616" (15.65) | .372" (9.45)  | White        | 100   |           |
| 151-30705         | CTM410M4 |      |                  | .864" (21.95) | .616" (15.65) | .372" (9.45)  | White        | 1000  |           |
| 151-30700         | CTM40C2  |      |                  | .864" (21.95) | .616" (15.65) | .372" (9.45)  | Black        | 100   |           |
| 151-30702         | CTM40M4  |      |                  | .864" (21.95) | .616" (15.65) | .372" (9.45)  | Black        | 1000  |           |

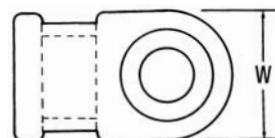
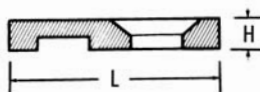
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Low Profile Cable Tie Mounts

Low profile mounts are intended for use in securing bundles where space is limited. Each mount is fastened with a single screw.



| Material Data         |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



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| Product Selection |               |      |                  |           | Length (L)    | Width (W)     | Height (H)   | Color   | Pkg. Qty. |
|-------------------|---------------|------|------------------|-----------|---------------|---------------|--------------|---------|-----------|
| Article No.       | Part No.      | Type | Cable Tie Series | Mounting  | in. (mm)      | in. (mm)      | in. (mm)     |         |           |
| 151-00226         | <b>MB19C2</b> | MB1  | T18              | #2 Screw  | .500" (12.70) | .312" (7.92)  | .130" (3.30) | Natural | 100       |
| 151-00294         | <b>MB19M4</b> |      |                  |           | .500" (12.70) | .312" (7.92)  | .130" (3.30) | Natural | 1000      |
| 151-00295         | <b>MB10C2</b> |      |                  |           | .500" (12.70) | .312" (7.92)  | .130" (3.30) | Black   | 100       |
| 151-00296         | <b>MB10M4</b> |      |                  |           | .500" (12.70) | .312" (7.92)  | .130" (3.30) | Black   | 1000      |
| 151-00227         | <b>MB29C2</b> | MB2  | T18 - T50        | # 8 Screw | .807" (20.50) | .490" (12.45) | .130" (3.30) | Natural | 100       |
| 151-00297         | <b>MB29M4</b> |      |                  |           | .807" (20.50) | .490" (12.45) | .130" (3.30) | Natural | 1000      |
| 151-28210         | <b>MB20C2</b> |      |                  |           | .807" (20.50) | .490" (12.45) | .130" (3.30) | Black   | 100       |
| 151-28202         | <b>MB20M4</b> |      |                  |           | .807" (20.50) | .490" (12.45) | .130" (3.30) | Black   | 1000      |

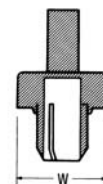
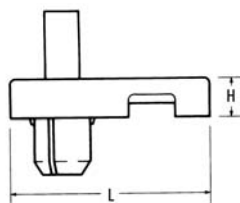
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Low Profile Rivet Mounts

The low profile rivet mount is designed to secure wiring bundles and fastens with the drive rivet through a predrilled hole. This mount is ideal for use in applications where space is limited.



| Material Data         |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



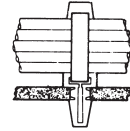
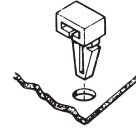
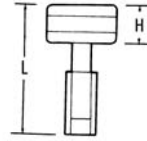
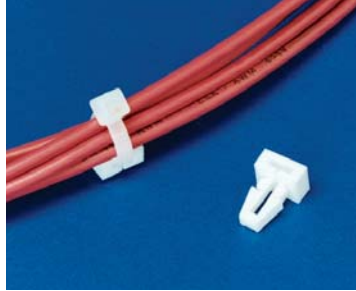
| Product Selection |                  |        |                  |  | Mounting Hole Ø | Max. Panel Thickness | Length (L)    | Width (W)     | Height (H)   | Color   | Pkg. Qty. |
|-------------------|------------------|--------|------------------|--|-----------------|----------------------|---------------|---------------|--------------|---------|-----------|
| Article No.       | Part No.         | Type   | Cable Tie Series |  | in. (mm)        | in. (mm)             | in. (mm)      | in. (mm)      | in. (mm)     |         |           |
| 151-27000         | <b>LKCRF19C2</b> | LKCRF1 | T18 -            |  | .250" (6.35)    | .134" (3.4)          | .938" (23.82) | .470" (11.94) | .157" (3.99) | Natural | 100       |
| 151-27009         | <b>LKCRF19H4</b> | LKCRF1 | T50              |  | .250" (6.35)    | .134" (3.4)          | .938" (23.82) | .470" (11.91) | .157" (3.99) | Natural | 500       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Tie Mounts

### Push Mounts

Intended for use in a predrilled hole, this push mount accepts T18 through T50 series cable ties. Once inserted through the hole, the mount locks into place.



#### Material Data

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



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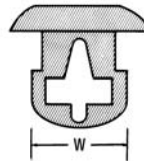
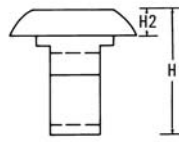
#### Product Selection

| Article No. | Part No.  | Type  | Cable Tie Series | Mounting Hole Ø | Max. Panel Thickness | Length (L)    | Width (W)     | Height (H)   | Color | Pkg. Qty. |
|-------------|-----------|-------|------------------|-----------------|----------------------|---------------|---------------|--------------|-------|-----------|
|             |           |       |                  | in. (mm)        | in. (mm)             | in. (mm)      | in. (mm)      | in. (mm)     |       |           |
| 151-40106   | TM1SF10C2 | TM1SF | T18 - T50        | .25" (6.3)      | .134" (3.4)          | .616" (15.65) | .401" (10.19) | .181" (4.60) | White | 100       |
| 151-00328   | TM1SF10M4 | TM1SF |                  | .25" (6.3)      | .134" (3.4)          | .616" (15.65) | .401" (10.19) | .181" (4.60) | White | 1000      |
| 151-40100   | TM1SF0C2  | TM1SF |                  | .25" (6.3)      | .134" (3.4)          | .616" (15.65) | .401" (10.19) | .181" (4.60) | Black | 100       |
| 151-40101   | TM1SF0M4  | TM1SF |                  | .25" (6.3)      | .134" (3.4)          | .616" (15.65) | .401" (10.19) | .181" (4.60) | Black | 1000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### Push Button Mounts

The push button mounts are used where the back of the panel is accessible.



#### Material Data

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Material              | Polyamide 6.6 (PA66)                            |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) continuous |
| Flammability          | UL94 V2                                         |



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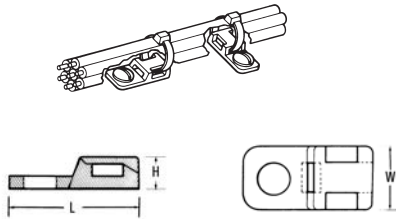
#### Product Selection

| Article No. | Part No. | Type | Cable Tie Series | Mounting Hole Ø | Max. Panel Thickness | Width (W)   | Height (H)   | Height (H2) | Color | Pkg. Qty. |
|-------------|----------|------|------------------|-----------------|----------------------|-------------|--------------|-------------|-------|-----------|
|             |          |      |                  | in. (mm)        | in. (mm)             | in. (mm)    | in. (mm)     | in. (mm)    |       |           |
| 151-00230   | PBM10C2  | PBM  | T18 - T50        | .25" (6.4)      | .122" (3.1)          | .26" (6.60) | .40" (10.16) | .08" (2.03) | White | 100       |
| 151-00231   | PBM10M4  | PBM  |                  | .25" (6.4)      | .122" (3.1)          | .26" (6.60) | .40" (10.16) | .08" (2.03) | White | 1000      |
| 151-00228   | PBM0C2   | PBM  |                  | .25" (6.4)      | .122" (3.1)          | .26" (6.60) | .40" (10.16) | .08" (2.03) | Black | 100       |
| 151-00229   | PBM0M4   | PBM  |                  | .25" (6.4)      | .122" (3.1)          | .26" (6.60) | .40" (10.16) | .08" (2.03) | Black | 1000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Tie Anchor Mounts

Cable ties may be inserted from any of the four sides of the CTAM. This feature allows the mount to be placed either parallel or perpendicular to the wires.



| Material Data         |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                                      |
| Operating Temperature | <b>-40 °F to +185 °F</b><br><b>(-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                                   |



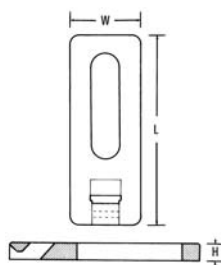
**cAUS**  
File# E64139

| Product Selection |                  |       |                  |           |                       |                        |                        |       |           |
|-------------------|------------------|-------|------------------|-----------|-----------------------|------------------------|------------------------|-------|-----------|
| Article No.       | Part No.         | Type  | Cable Tie Series | Mounting  | Width (W)<br>in. (mm) | Length (L)<br>in. (mm) | Height (H)<br>in. (mm) | Color | Pkg. Qty. |
| 151-31103         | <b>CTAM110C2</b> | CTAM1 | T18 - T50        | #8 screw  | .400" (10.16)         | .800" (20.32)          | .200" (5.08)           | White | 100       |
| 151-31106         | <b>CTAM110M4</b> | CTAM1 |                  |           | .400" (10.16)         | .800" (20.32)          | .200" (5.08)           | White | 1000      |
| 151-31101         | <b>CTAM10C2</b>  | CTAM1 |                  |           | .400" (10.16)         | .800" (20.32)          | .200" (5.08)           | Black | 100       |
| 151-00287         | <b>CTAM10M4</b>  | CTAM1 |                  |           | .400" (10.16)         | .800" (20.32)          | .200" (5.08)           | Black | 1000      |
| 151-31203         | <b>CTAM210C2</b> | CTAM2 |                  | #10 screw | .400" (10.16)         | .800" (20.32)          | .200" (5.08)           | White | 100       |
| 151-31205         | <b>CTAM210M4</b> | CTAM2 |                  |           | .400" (10.16)         | .800" (20.32)          | .200" (5.08)           | White | 1000      |
| 151-31201         | <b>CTAM20C2</b>  | CTAM2 |                  |           | .400" (10.16)         | .800" (20.32)          | .200" (5.08)           | Black | 100       |
| 151-31202         | <b>CTAM20M4</b>  | CTAM2 |                  |           | .400" (10.16)         | .800" (20.32)          | .200" (5.08)           | Black | 1000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Tie Anchor Plates

These plates have slotted mounting holes to provide for easier alignment of mount and bundles. Once aligned, they are fastened securely by tightening the applied screw. The CTAP2 allows an additional screw for maximum stability. Both plates are used perpendicularly to the wire bundle.



| Material Data         |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                                      |
| Operating Temperature | <b>-40 °F to +185 °F</b><br><b>(-40 °C to +85 °C) continuous</b> |
| Flammability          | <b>UL94 V2</b>                                                   |



**cAUS**  
File# E64139

| Product Selection |                  |       |                  |           |                       |                        |                        |       |           |
|-------------------|------------------|-------|------------------|-----------|-----------------------|------------------------|------------------------|-------|-----------|
| Article No.       | Part No.         | Type  | Cable Tie Series | Mounting  | Width (W)<br>in. (mm) | Length (L)<br>in. (mm) | Height (H)<br>in. (mm) | Color | Pkg. Qty. |
| 151-30100         | <b>CTAP110C2</b> | CTAP1 | T18 - T50        | #10 screw | .50" (12.7)           | 1.34" (34.04)          | .15" (3.81)            | White | 100       |
| 151-00288         | <b>CTAP110M4</b> | CTAP1 |                  |           | .50" (12.7)           | 1.34" (34.04)          | .15" (3.81)            | White | 1000      |
| 151-00289         | <b>CTAP10C2</b>  | CTAP1 |                  |           | .50" (12.7)           | 1.34" (34.04)          | .15" (3.81)            | Black | 100       |
| 151-00290         | <b>CTAP10M4</b>  | CTAP1 |                  |           | .50" (12.7)           | 1.34" (34.04)          | .15" (3.81)            | Black | 1000      |
| 151-30200         | <b>CTAP210C2</b> | CTAP2 |                  |           | .50" (12.7)           | 2.13" (54.1)           | .14" (3.5)             | White | 100       |
| 151-00308         | <b>CTAP210H4</b> | CTAP2 |                  |           | .50" (12.7)           | 2.13" (54.1)           | .14" (3.5)             | White | 500       |
| 151-00291         | <b>CTAP20C2</b>  | CTAP2 |                  |           | .50" (12.7)           | 2.13" (54.1)           | .14" (3.5)             | Black | 100       |
| 151-00292         | <b>CTAP20M4</b>  | CTAP2 |                  |           | .50" (12.7)           | 2.13" (54.1)           | .14" (3.5)             | Black | 500       |

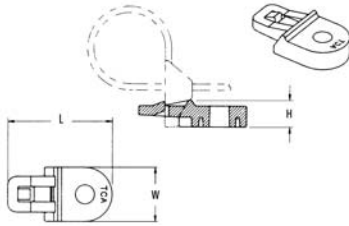
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



# Cable Tie Mounts

## Lashing Tie Mounts

The lashing tie mount is designed to snap into the T250 lashing tie. The tie head is assembled perpendicular to the mount. The strap is parallel to the mount when inserted into the head. The lashing tie mount is recommended for indoor or outdoor wall mount cable applications.



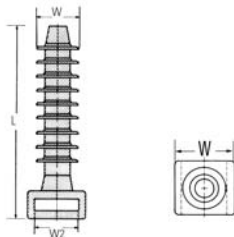
| Material Data         |                                      | RoHS |
|-----------------------|--------------------------------------|------|
| Material              | Polyamide 6.6 UV-resistant (PA66UV)  |      |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) |      |
| Flammability          | continuous                           |      |
| UL94 V2               |                                      |      |

| Product Selection |           |        |                  |            | Width (W)     | Length (L)    | Height (H)   | Color | Pkg. Qty. |
|-------------------|-----------|--------|------------------|------------|---------------|---------------|--------------|-------|-----------|
| Article No.       | Part No.  | Type   | Cable Tie Series | Mounting   | in. (mm)      | in. (mm)      | in. (mm)     |       |           |
| 151-00358         | LTM2500C2 | LTM250 | T250             | .25" screw | .733" (18.62) | 1.46" (37.08) | .378" (9.60) | Black | 100       |
| 151-00293         | LTM2500H4 | LTM250 |                  |            | .733" (18.62) | 1.46" (37.08) | .378" (9.60) | Black | 500       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Masonry Mounts

Masonry mounts provide a permanent method of attaching wire and cable to masonry surfaces. HellermannTyton's masonry mounts simply tap into predrilled holes and can be used for indoor and outdoor applications.



| Material Data         |                                      | RoHS |
|-----------------------|--------------------------------------|------|
| Material              | Polyamide 6.6 (PA66)                 |      |
| Operating Temperature | -40 °F to +185 °F (-40 °C to +85 °C) |      |
| Flammability          | continuous                           |      |
| UL94 V2               |                                      |      |

| Product Selection |          |       |                  |  | Mounting Hole Ø | Min. Depth   | Length (L)     | Width (W)    | Width (W2)   | Width (W3)   | Color | Pkg. Qty. |
|-------------------|----------|-------|------------------|--|-----------------|--------------|----------------|--------------|--------------|--------------|-------|-----------|
| Article No.       | Part No. | Type  | Cable Tie Series |  | in. (mm)        | in. (mm)     | in. (mm)       | in. (mm)     | in. (mm)     | in. (mm)     |       |           |
| 151-29800         | MMB00C2  | MMB0  | T18 - T50        |  | .188" (4.7)     | 1.0" (25.4)  | 1.185" (30.1)  | .355" (9.02) | .218" (5.54) | .236" (5.99) | Black | 100       |
| 151-00325         | MMB00M4  | MMB0  |                  |  | .188" (4.7)     |              | 1.185" (30.1)  | .355" (9.02) | .218" (5.54) | .236" (5.99) | Black | 1000      |
| 151-00116         | MMB.50C2 | MMB.5 |                  |  | .25" (6.25)     |              | 1.244" (31.60) | .375" (9.53) | .220" (5.59) | .308" (7.82) | Black | 100       |
| 151-30001         | MMB.50M4 | MMB.5 |                  |  | .25" (6.25)     |              | 1.244" (31.60) | .375" (9.53) | .220" (5.59) | .308" (7.82) | Black | 1000      |
| 151-00326         | MMB10C2  | MMB1  |                  |  | .312" (8.0)     | 1.5" (38.10) | 1.71" (43.49)  | .508" (12.9) | .374" (9.50) | .362" (9.19) | Black | 100       |
| 151-00327         | MMB10H4  | MMB1  |                  |  | .312" (8.0)     |              | 1.71" (43.49)  | .508" (12.9) | .374" (9.50) | .362" (9.19) | Black | 500       |

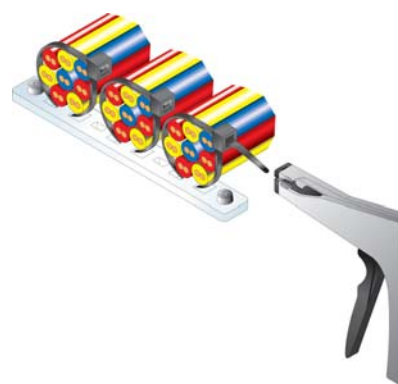
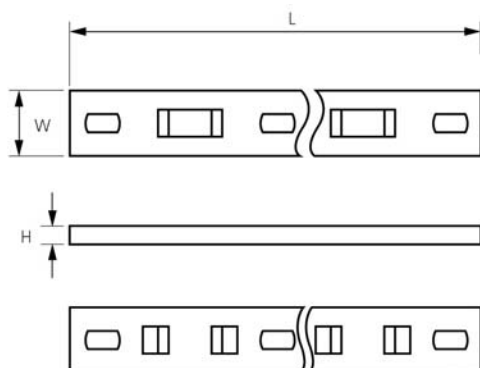
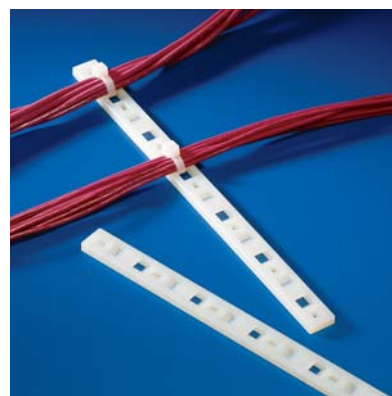
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Cable Tie Mounting Plates

Allowing multiple cables to be run in parallel, these mounting plates are secured with two screws. The cables are attached to the mounting plate by using a cable tie through any combination of the available slots.

| Material Data         |                                                        |
|-----------------------|--------------------------------------------------------|
| Material              | <b>Polyamide 6.6 (PA66)</b>                            |
| Operating Temperature | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b> |
| Color                 | <b>Natural</b>                                         |
| Flammability          | <b>UL94 V2</b>                                         |



| Product Selection |                    |          | Cable Tie Series | Mounting       | Width (W) |        | Length (L) |         | Height (H) |        | Pkg. Qty. |
|-------------------|--------------------|----------|------------------|----------------|-----------|--------|------------|---------|------------|--------|-----------|
| Article No.       | Part No.           | Type     |                  |                | in.       | (mm)   | in.        | (mm)    | in.        | (mm)   |           |
| 154-00000         | <b>MP1M3.NN3P</b>  | MP1M3    | T18 - T50        | # 6 (M3) screw | .50"      | (12.7) | 1.75"      | (44.4)  | .125"      | (3.2)  | 100       |
| 154-00100         | <b>MP1M5.NN3P</b>  | MP1M5    |                  | #10 (M5) screw | .50"      | (12.7) | 1.75"      | (44.4)  | .125"      | (3.2)  | 100       |
| 151-24219         | <b>MP2M3.NN3P</b>  | MP2M3    |                  | # 6 (M3) screw | .50"      | (12.7) | 3.00"      | (76.2)  | .125"      | (3.2)  | 100       |
| 154-00300         | <b>MP2M5.NN3P</b>  | MP2M5    |                  | #10 (M5) screw | .50"      | (12.7) | 3.00"      | (76.2)  | .125"      | (3.2)  | 100       |
| 151-24319         | <b>MP3M3.NN3P</b>  | MP3M3    |                  | # 6 (M3) screw | .50"      | (12.7) | 4.25"      | (108.0) | .125"      | (3.2)  | 100       |
| 154-00500         | <b>MP3M5.NN3P</b>  | MP3M5    |                  | #10 (M5) screw | .50"      | (12.7) | 4.25"      | (108.0) | .125"      | (3.2)  | 100       |
| 151-24419         | <b>MP4M3.NN3P</b>  | MP4M3    |                  | # 6 (M3) screw | .50"      | (12.7) | 5.50"      | (139.8) | .125"      | (3.2)  | 100       |
| 154-00700         | <b>MP4M5.NN3P</b>  | MP4M5    |                  | #10 (M5) screw | .50"      | (12.7) | 5.50"      | (139.8) | .125"      | (3.2)  | 100       |
| 151-24519         | <b>MP5M3.NN3P</b>  | MP5M3    |                  | # 6 (M3) screw | .50"      | (12.7) | 6.75"      | (171.6) | .125"      | (3.2)  | 100       |
| 154-00900         | <b>MP5M5.NN3P</b>  | MP5M5    |                  | #10 (M5) screw | .50"      | (12.7) | 6.75"      | (171.6) | .125"      | (3.2)  | 100       |
| 154-00018         | <b>MSMP5/69C2</b>  | MSMP5/6  |                  | # 6 (M3) screw | .618"     | (15.7) | 8.08"      | (205.3) | .21"       | (5.33) | 100       |
| 154-01200         | <b>MSMP5/109C2</b> | MSMP5/10 |                  | #10 (M5) screw | .618"     | (15.7) | 8.08"      | (205.3) | .21"       | (5.33) | 100       |
| 154-01302         | <b>MSMP6/69C2</b>  | MSMP6/7  |                  | # 6 (M3) screw | .618"     | (15.7) | 9.58"      | (243.3) | .21"       | (5.33) | 100       |
| 154-01300         | <b>MSMP6/109C2</b> | MSMP6/10 |                  | #10 (M5) screw | .618"     | (15.7) | 9.58"      | (243.3) | .21"       | (5.33) | 100       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Tie Tools

### Mechanical Cable Tie Tools



Ranging from the high performance Mark 7 and Mark 9 series tools to pocket-sized twist tools, HellermannTyton offers a range of mechanical tools which can be used with any HellermannTyton cable tie. When using these tools, the cable tie is hand applied and then manually tensioned and cut-off, without the use of an extraneous power source.

### MARK 7 AND MARK 9 TOOLS

Specifically developed for maximum ergonomic and performance values, the Mark 7 and Mark 9 series tools combine reduced hand effort and durable components to ensure efficient assembly and a longer life cycle. The Mark 7 tools are used with T18 through T50 series HellermannTyton cable ties. The Mark 9 tools can be used with nearly every HellermannTyton cable tie. Able to accommodate ties to .530" in width, the Mark 9 is used with HellermannTyton's T18 series cable ties to the heavy duty ties, including the T250 series, Wide Strap series and EL-TY. High tension versions of both the Mark 7 and Mark 9 tools (MK7HT and MK79HT) offer the same design features as their standard counterparts but with higher cut-off tension capabilities. The Mark 9 and Mark 7 high tension tools both offer a 5/8" stroke.



MK7 & MK9

## Mark 7 and Mark 9 Features

- An easy to read display speeds adjustment and verification.
- Thumb tab on larger tension knob for easy adjustment.
- On the Mark 7, a larger knob sets the three variable tension levels (minimum, intermediate, and standard). The smaller knob fine tunes within the tension range.
- The larger knob on the Mark 9 sets to two variable tension levels (standard and heavy). The smaller knob fine tunes the tension setting.
- Housings are manufactured from a high impact, glass reinforced nylon.
- A double wall linkage adds more strength.
- Tough chromium steel components ensure longevity.
- MK7 & MK9 are military specified.
- Single and dual lock-out features available for tensioning ranges.
- Cable tie tension and cut-off tools reduce operator fatigue and speed assembly.
- The Mark 7 features a one inch stroke, while the Mark 9 has a 5/8 inch stroke. Both reduce trigger cycles required to install cable ties.
- Ergonomic design on both tools ideally fit the operator's hand. Removable padded hand grips further reduce impact to the hand.
- Low friction bearing mechanisms reduce hand effort and provide a smooth stroke.
- Extremely light, the Mark 7 weighs only 10 ounces. The Mark 9 weighs just 13 ounces.
- Quick tension adjustability for flush cut-off.



MK7

## Mark 7 Tool

| Product Selection |                    |             |                                                                                                                                    |                                                |           |
|-------------------|--------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------|
| Article No.       | Part No.           | Type        | Description                                                                                                                        | Cable Tie Series                               | Pkg. Qty. |
| 110-07500         | <b>MK7</b>         | MK7         | Durable and lightweight, the Mark 7 tool is user friendly and adjustable, with top-of-the-line design features.                    | T18 thru T50 Series<br>CTT20 thru CTT60 Series | 1         |
| 110-07000         | <b>MK7HT</b>       | MK7HT       | The Mark 7 High Tension tool has the same design features as the MK7, although this tool offers an increased tension range.        | T30 thru T50 Series<br>CTT20 thru CTT60 Series | 1         |
| 110-08000         | <b>MK7LK</b>       | MK7LK       | The Mark 7 Lock-Out tool has the same design features as the MK7, although this tool offers complete lock-out of tension settings. | T30 thru T50 Series<br>CTT20 thru CTT60 Series | 1         |
| 110-00448         | <b>MK7BLADEKIT</b> | MK7BLADEKIT | Service kit for MK7 tool includes replacement blade, screw for nose piece, and instruction card.                                   |                                                | 1         |
| 110-00449         | <b>MK7-449</b>     | MK7-449     | Replacement blade for MK7 series tools.                                                                                            |                                                | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.  
Minimum order quantity for the MK7-449 is 5.

## Cable Tie Tools

## Mark 9 Tool



MK9



MK9SST

| Product Selection |                    |             |                                                                                                                                                                                               |                                                                                        |           |
|-------------------|--------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------|
| Article No.       | Part No.           | Type        | Description                                                                                                                                                                                   | Cable Tie Series                                                                       | Pkg. Qty. |
| 110-09500         | <b>MK9</b>         | MK9         | The Mark 9 tool has the same design features as the MK7 series tools. The MK9 accommodates heavy duty cable ties.                                                                             | T18* thru T250 Series<br>CTT20 thru CTT175 Series<br>EL-TY Series<br>Wide Strap Series | 1         |
| 110-09000         | <b>MK9HT</b>       | MK9HT       | The Mark 9 High Tension tool has the same design features as the MK9, but offers an increased tension range.                                                                                  | T18* thru T250 Series<br>CTT20 thru CTT175 Series<br>EL-TY Series<br>Wide Strap Series | 1         |
| 110-09700         | <b>MK9RE</b>       | MK9RE       | The MK9 Rounded Edge tool has the same design features as the MK9 although it has a special nose piece that leaves a 2mm round tail.                                                          | T18* thru T250 Series<br>CTT20 thru CTT175 Series<br>EL-TY Series<br>Wide Strap Series | 1         |
| 110-09600         | <b>MK9REF</b>      | MK9REF      | The Mark 9 Reduced Effort tool has a reduced effort trigger mechanism for operators with small hands. It has a shorter pawl stroke.                                                           | T18* thru T250 Series<br>CTT20 thru CTT175 Series<br>EL-TY Series<br>Wide Strap Series | 1         |
| 110-95000         | <b>MK9SST</b>      | MK9SST      | Adapted for use with stainless steel ties, the MK9 Stainless Steel tool retains the same design features as the MK9 series. The MK9SST accommodates all HellermannTyton stainless steel ties. | All MBT Series for both 304 and 316 materials                                          | 1         |
| 110-00220         | <b>MK9BLADEKIT</b> | MK9BLADEKIT | Service kit for the MK9 tool includes replacement blade, screw for nose piece, and instruction card.                                                                                          |                                                                                        | 1         |
| 110-00221         | <b>MK9-221</b>     | MK9-221     | Replacement blade for MK9 series                                                                                                                                                              |                                                                                        | 1         |
| 110-05114         | <b>MK9SS-114</b>   | MK9SS-114   | Replacement blade for MK9SST series tools                                                                                                                                                     |                                                                                        | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. \* Does not include T18S series ties .08" wide.

## Other Mechanical Cable Tie Tools

| Product Selection |             |      |                                                                                                                                                                                  |                                                |           |
|-------------------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------|
| Article No.       | Part No.    | Type | Description                                                                                                                                                                      | Cable Tie Series                               | Pkg. Qty. |
| 110-21000         | <b>TWT1</b> | TWT  | The TytonTwyster is a lightweight and economical twist tool. Offers speed and efficiency. Fits into a pocket. (Color Orange)                                                     | T18 thru T50 Series<br>CTT20 thru CTT60 Series | 1         |
| 110-22000         | <b>TWT2</b> | TWT  | The TytonTwyster is a lightweight and economical twist tool. Offers speed and efficiency. Fits into a pocket. (Color Blue)                                                       | T120 thru T150 Series<br>CTT175 Series         | 1         |
| 110-11150         | <b>T150</b> | T150 | The T150 Tool is a heavy duty installer controlled tool for use in the field. Pliers action provides mechanical advantage. Padded foam grip handles provide comfort and control. | T150 Series<br>CTT175 Series                   | 1         |
| 110-11250         | <b>T250</b> | T250 | The T250 has the same design features as the T150 Tool, but can tension and cutoff a wider tie.                                                                                  | T150 thru T250 Series<br>CTT175 Series         | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Power Assisted Cable Tie Tools

HellermannTyton's Mark 7 and Mark 9 power assisted (MK7P & MK9P) tools utilize pneumatic power to tension and cut-off HellermannTyton cable ties. The MK7P and MK9P tools feature an ergonomic design while offering time/labor savings and ease of use benefits derived from pneumatic power. These tools feature a non-slip, comfortable grip, soft touch trigger, and one touch tensioning/cut-off capability. HellermannTyton's pneumatic cable tie tools are lightweight, high performance, and suited for extended use.

### Product Features

#### - Ergonomic

The ergonomic design of the pneumatic cable tie tools incorporates a comfortable grip, low weight, and easy trigger depression to reduce installer effort and strain while installing cable ties.

#### - Operation

MK7P & MK9P speed assembly. Just one pulse of the soft touch trigger assembly actuates an immediate tension and cut-off of the cable tie.

- Cable tie waste is ejected to the side after the cable tie is applied, ensuring smooth operation of the tool.
- Uses dry or lubricated air.
- Operates between 90 PSI and 105 PSI maximum.
- Supplied with a 6 inch lead which comes with a male quick connect fitting with a female coupler for 1/8" flow.

#### - Design

HellermannTyton's pneumatic tools are manufactured with tough, chromium steel components and high impact, glass reinforced nylon housings for maximum durability.

#### - Tensioning

An easy to read indicator verifies tension settings. The tools feature an easy dial-in tension adjustment, along with a lock-out capability. The tension adjustment on the MK7P and the MK9P is designed with an operator friendly, positive "click" design for easy use. The tension can readily be locked out to allow the tension adjustment to remain at a constant setting that can only be changed by approved personnel. The fine adjust tension knob has a unique lever feature used to reduce adjustment torque.



MK9P

## Cable Tie Tools

### Mark 7 Pneumatic

The Mark 7 Pneumatic (MK7P) is built to perform in demanding production and manufacturing environments. Heavy duty precision parts ensure repeatability in the tensioning process. The MK7P fits comfortably in the operator's hand, reducing hand, arm and wrist fatigue. Due to its ergonomic features, HellermannTyton's MK7P makes it easier for the installer to consistently apply cable ties while maintaining correct tension and flush cut-off. Safety is enhanced, as the MK7P can eliminate sharp edges of a cut-off cable tie.



MK7P

| Material Data      |                                |
|--------------------|--------------------------------|
| Power Supply       | <b>Dry or lubricated air</b>   |
| Cycle Time         | <b>4 strokes per second</b>    |
| Weight             | <b>16oz</b>                    |
| Pawl Travel Stroke | <b>1.0" (2.54 cm)</b>          |
| Tension Force      | <b>60 to 170 N, adjustable</b> |

| Product Selection |                 |                   |                                                                                                                                                                        |                                                |           |
|-------------------|-----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------|
| Article No.       | Part No.        | Type              | Description                                                                                                                                                            | Cable Tie Series                               | Pkg. Qty. |
| 110-07101         | <b>MK7P</b>     | MK7P              | Includes Mark 7 Pneumatic tool and quick connect fittings. Ergonomic tool uses pneumatic power and accomplishes rapid tension and cut-off with one trigger depression. | T18 thru T50 Series<br>CTT20 thru CTT60 Series | 1         |
| 110-07111         | <b>MK7P-342</b> | Replacement Blade | MK7P Replacement Blade                                                                                                                                                 |                                                | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Minimum order quantity for MK7P-342 is 5.

## MK9 Pneumatic

The Mark 9 Pneumatic (MK9P) is constructed with heavy duty parts to ensure that it performs optimally in demanding environments. It is ideally designed to apply heavy-duty ties (T50-T250), clamp and button head ties.

Like the MK7P, HellermannTyton's MK9P incorporates the next level of ergonomic improvement with its low weight, comfortable grip and easy trigger depression. Very durable, the pneumatic MK9P features adjustable, easy to read tension settings. Lock-out features are available.

The MK9P is available with lower air attachment (standard) or can be ordered with an upper air attachment.

| Material Data      |                                |
|--------------------|--------------------------------|
| Power Supply       | <b>Dry or Lubricated Air</b>   |
| Cycle Time         | <b>2 strokes per second</b>    |
| Weight             | <b>32oz</b>                    |
| Pawl Travel Stroke | <b>1.25" (3.175 cm)</b>        |
| Tension Force      | <b>60 to 170 N, adjustable</b> |

| Product Selection |                 |          |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      |           |
|-------------------|-----------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------|
| Article No.       | Part No.        | Type     | Description                                                                                                                                                                                                                                                                                                                                                            | Cable Tie Series                                                                     | Pkg. Qty. |
| 110-09101         | <b>MK9P</b>     | MK9P     | Includes Mark 9 Pneumatic tool and quick connect fittings. Included is a 1/8" flow quick disconnect fitting and a 10" whip and 1/8" male fitting. Ergonomic tool uses pneumatic power and accomplishes rapid tension and cut-off with one trigger depression.                                                                                                          | T50 thru T250 Series<br>CTT20 thru CTT175 Series<br>EL-TY Series<br>Button Head Ties | 1         |
| 110-09112         | <b>MK9PUA</b>   | MK9P     | Includes Mark 9 Pneumatic tool with upper air option for top air connection. Supplied with a 1/8" flow quick disconnect fitting and a 10" whip and 1/8" quick disconnect fitting. Includes a hanger for an optional overhead tool balancer (not included). Ergonomic tool uses pneumatic power and accomplishes rapid tension and cut-off with one trigger depression. | T50 thru T250 Series<br>CTT20 thru CTT175 Series<br>EL-TY Series<br>Button Head Ties | 1         |
| 110-09111         | <b>MK9P-109</b> | MK9P-109 | MK9P Replacement Blade                                                                                                                                                                                                                                                                                                                                                 |                                                                                      | 1**       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

\*\*Minimum order quantity of MK9P-109 is 5.



MK9PUA (Upper Air)



MK9P

## Common Accessories for MK7P and MK9P

HellermannTyton offers a portable kit that incorporates carbon dioxide (CO<sub>2</sub>) as the primary air source. This unique feature will allow for greater flexibility and the elimination of air line to the tool.

| Product Selection |             |             |                                                                                                      |           |
|-------------------|-------------|-------------|------------------------------------------------------------------------------------------------------|-----------|
| Article No.       | Part No.    | Type        | Description                                                                                          | Pkg. Qty. |
| 110-09002         | MKPCOKIT    | MKPCOKIT    | MKPCOKIT is a complete kit that includes the belt, holster, hose/regulator, pouch and 16oz air tank. | 1         |
| 110-09003         | MKPCOTANK   | MKPCOTANK   | Standard 16oz air tank for CO2 air supply to tool.                                                   | 1         |
| 110-09004         | MKPCOTANK20 | MKPCOTANK20 | Special 20oz canister tank for CO2 feature.                                                          | 1         |
| 110-09005         | MKPCOHOSE   | MKPCOHOSE   | Hose attachment from air tank to the tool with regulator.                                            | 1         |
| 110-09006         | MKPCOBELT   | MKPCOBELT   | Adjustable belt for air tank and pouch and tool holster for MK7P or MK9P tools.                      | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Automatic Cable Tie Systems

HellermannTyton's automatic cable tie tool systems are compact, fast, reliable, and versatile, accommodating a variety of wiring harness, and bundling and securing requirements. These tool systems are designed to provide significant labor and cost savings through process improvements, lower installed costs and greater consistency, quality and ergonomic benefits.

### Product Features

#### - Fast

Cable ties are installed quickly with one easy trigger depression, increasing productivity while decreasing labor costs.

#### - Reliable

HellermannTyton's automatic cable tie systems have been tested to perform extremely consistently without interruption to work flow.

#### - Ergonomic

The ergonomic design of the automatic cable tie tool systems feature a comfortable grip, low weight, and easy trigger depression to reduce installer effort and strain while installing cable ties.

#### - Easy to Use - Providing Valuable Operator Feedback

Equipped with a self-diagnostic LED information panel, the automatic cable tie systems easily guide the user through the cycles of cable tie installations.

#### - Automation

The automatic cable tie systems can be implemented into fully automated applications to further increase productivity and decrease labor costs.

#### - Flexible Manufacturing/Versatility

HellermannTyton's automatic cable tie tool systems support principles of flexible manufacturing requirements and environments. The systems can be used in handheld, bench mount and overhead assembly configurations. The versatile overhead assembly option provides the ultimate integration to the customer's manufacturing area. HellermannTyton's automatic tools are powered by a standard 110 AC 24V (AT2000) and 110 AC 27 V (AT2060) electrical outlet that converts to a low DC voltage to the tool. All power systems offer the installer the mobility needed to tackle different harnessing requirements.

#### - Uniform Fastening Quality

HellermannTyton's automatic cable tie systems feature adjustable tension control to deliver consistent levels of cable tie fastening.

#### - Range

HellermannTyton offers the widest range of automatic cable tie tool systems which cover cable tie tensile strengths of 18, 30, and 50 pounds with bundle diameters between 1/16" to over 3".



ATS3080



An LED panel shows the status of the tool.

#### Product Selection

| Article No. | Part No. | Max. Ø Bundle |
|-------------|----------|---------------|
| 120-00000   | AT2000   | .75" (20 mm)  |
| 103-00000   | AT2060   | 1.25" (31 mm) |
| 102-00000   | ATS3080  | 3.14" (80 mm) |

**AT2000****For bundles up to 3/4"**

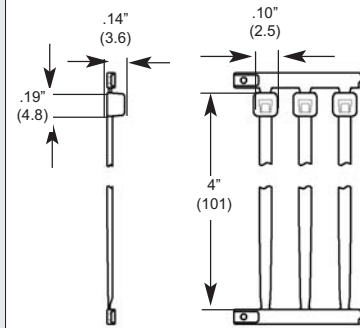
HellermannTyton's AT2000 completely installs cables ties on bundles up to 3/4" in diameter. This automatic cable tie tool is highly reliable and offers ergonomic benefits including low weight, easy trigger depression, a comfortable hand grip and correct balance—all which reduce operator strain. The AT2000 possesses an LED panel which makes it easier to maintain and operate the tool.

**AT2000 Technical Specifications**

|               |                                                    |
|---------------|----------------------------------------------------|
| Power Supply  | <b>Electrical, with Power Pack or Battery Pack</b> |
| Cycle Time    | <b>0.8 s</b>                                       |
| Weight        | <b>2.6lbs</b>                                      |
| Installation  | <b>Handheld, bench mount or overhead</b>           |
| Tension Force | <b>Adjustable</b>                                  |

**AT2000 Cable Tie Specifications**

|                                      |                                                         |
|--------------------------------------|---------------------------------------------------------|
| <b>Operating Temperature</b>         |                                                         |
| Natural Polyamide 6.6                | <b>-40 °F to +185 °F (-40 °C to +85 °C) continuous</b>  |
| Heat stabilized, black Polyamide 6.6 | <b>-40 °F to +221 °F (-40 °C to +105 °C) continuous</b> |
| Natural, Stanyl Polyamide 4.6        | <b>-40 °F to +275 °F (-40 °C to +135 °C) continuous</b> |
| Reel Diameter                        | <b>17.7 " (450)</b>                                     |
| Reel Width                           | <b>5.20 " (132)</b>                                     |



AT2000 Cable Ties

**CT** US  
 File# E64139
**Product Selection**

| Article No. | Part No.         | Type          | Description                                                           | Min. Tensile Strength | Max. Ø Bundle | Pkg. Qty. |
|-------------|------------------|---------------|-----------------------------------------------------------------------|-----------------------|---------------|-----------|
|             |                  |               |                                                                       | lbs. (N)              | in. (mm)      |           |
| 120-00000   | <b>AT2000</b>    | Autotool 2000 | Includes AT2000 tool, power supply, power cord, tool cord, and manual |                       |               | 1         |
| 120-00060   | <b>120-00060</b> | Control Box   | Control Box for linking AT2000 to automation                          |                       |               | 1         |

**Natural Cable Ties**

|           |                  |                  |                                                 |             |           |                                                                     |
|-----------|------------------|------------------|-------------------------------------------------|-------------|-----------|---------------------------------------------------------------------|
| 120-40009 | <b>T18RA50</b>   | T18RA50-N66-NA   | Cable ties on bandolier for use with the AT2000 | 18 lbs (80) | .75" (20) | 20,000 per carton includes:<br>50 per bandolier<br>500 per package  |
| 120-46009 | <b>T18RA3500</b> | T18RA3500-N66-NA | Cable ties on reel for use with the AT2000      | 18 lbs (80) | .75" (20) | 14,000 per carton includes:<br>3,500 per reel<br>4 reels per carton |
| 120-05009 | <b>T18RA5000</b> | T18RA5000-N66-NA | Cable ties on reel for use with the AT2000      | 18 lbs (80) | .75" (20) | 10,000 per carton includes:<br>5,000 per reel<br>2 reels per carton |

**Black, Heat Stabilized Cable Ties**

|           |                     |                  |                                                 |             |           |                                                                     |
|-----------|---------------------|------------------|-------------------------------------------------|-------------|-----------|---------------------------------------------------------------------|
| 120-40010 | <b>T18RA50HSW</b>   | T18RA50-HSW-BK   | Cable ties on bandolier for use with the AT2000 | 18 lbs (80) | .75" (20) | 20,000 per carton includes:<br>50 per bandolier<br>500 per package  |
| 120-05010 | <b>T18RA5000HSW</b> | T18RA5000-HSW-BK | Cable ties on reel for use with the AT2000      | 18 lbs (80) | .75" (20) | 10,000 per carton includes:<br>5,000 per reel<br>2 reels per carton |

**Natural, Stanyl Cable Ties**

|           |                    |                 |                                            |             |           |                                                                     |
|-----------|--------------------|-----------------|--------------------------------------------|-------------|-----------|---------------------------------------------------------------------|
| 120-04609 | <b>T18RA5000HR</b> | T18RA5000HR-N46 | Cable ties on reel for use with the AT2000 | 18 lbs (80) | .75" (20) | 10,000 per carton includes:<br>5,000 per reel<br>2 reels per carton |
|-----------|--------------------|-----------------|--------------------------------------------|-------------|-----------|---------------------------------------------------------------------|

V/O rated ties can be made available for the AT2000. Various tie colors available upon request (Contact HellermannTyton for lead time). Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

For information on AT2000's Bench Mount System and Overhead Suspension Assembly see page 75–76.

For information on Wire Retainers for Harness Boards and AT2000's battery pack see page 77.

## Cable Tie Tools

## AT2060

HellermannTyton's AT2060 automatically installs cable ties for bundles up to 1-1/4". The many ergonomic benefits include easy trigger depression and low weight that reduces operator effort and strain. Operation and maintenance of the tool are enhanced by the self-diagnostic LED panel located on the AT2060.



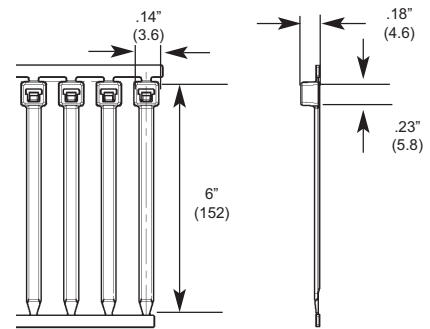
AT2060 Technical Specifications

|               |                    |
|---------------|--------------------|
| Power Supply  | <b>Electrical</b>  |
| Cycle Time    | <b>1.2 seconds</b> |
| Weight        | <b>3.9lbs</b>      |
| Pawl Travel   | <b>1.25"</b>       |
| Stroke        | <b>(3.175 cm)</b>  |
| Tension Force | <b>Adjustable</b>  |

AT2060 Cable Tie Specifications

|                                       |                                                        |
|---------------------------------------|--------------------------------------------------------|
| <b>Operating Temperature</b>          |                                                        |
| Natural Polyamide 6.6                 | <b>-40 °F to +185 °F</b><br><b>(-40 °C to +85 °C)</b>  |
| Heat stabilized, black, Polyamide 6.6 | <b>-40 °F to +221 °F</b><br><b>(-40 °C to +105 °C)</b> |
| Reel Diameter                         | <b>17.7 " (450)</b>                                    |
| Reel Width                            | <b>7.197 " (182.8)</b>                                 |
| Reel Weight                           | <b>7 lbs</b>                                           |

RoHS



| Product Selection |               |        |                                                                                                  | Min. Tensile Strength | Max. Ø Bundle | Pkg. Qty. |
|-------------------|---------------|--------|--------------------------------------------------------------------------------------------------|-----------------------|---------------|-----------|
| Article No.       | Part No.      | Type   |                                                                                                  | lbs. (N)              | in. (mm)      |           |
| 103-00000         | <b>AT2060</b> | AT2060 | Includes AT2060 tool, power supply, power cord, tool cord, and maintenance and operation manual. |                       |               | 1         |

## Natural Cable Ties

|           |                  |           |                                                        |                 |            |                                                                    |
|-----------|------------------|-----------|--------------------------------------------------------|-----------------|------------|--------------------------------------------------------------------|
| 103-00002 | <b>T30RA30</b>   | T30RA     | Cable ties on a bandolier for use with the AT2060 tool | 30 lbs (133.44) | 1.25" (31) | 6,000 per carton includes:<br>30 per bandolier<br>600 per bag      |
| 103-00001 | <b>T30RA3000</b> | T30RA3000 | Cable ties on a reel for use with the AT2060 tool      | 30 lbs (133.44) | 1.25" (31) | 6,000 per carton includes:<br>3,000 per reel<br>2 reels per carton |

## Black, Heat Stabilized Cable Ties

|           |                    |       |                                                        |                 |            |                                                                    |
|-----------|--------------------|-------|--------------------------------------------------------|-----------------|------------|--------------------------------------------------------------------|
| 103-00003 | <b>T30RA300HS</b>  | T30RA | Cable ties on a bandolier for use with the AT2060 tool | 30 lbs (133.44) | 1.25" (31) | 6,000 per carton includes:<br>30 per bandolier<br>600 per bag      |
| 103-00004 | <b>T30RA3000HS</b> | T30RA | Cable ties on a reel for use with the AT2060 tool      | 30 lbs (133.44) | 1.25" (31) | 6,000 per carton includes:<br>3,000 per reel<br>2 reels per carton |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. V/O rated ties and 4/6 ties for high temperatures can be made available for the AT2060. Various colors available upon request (Contact HellermannTyton for lead time).

For information on AT2060's Bench Mount System and Overhead Suspension Assembly see page 75-76

For information on Wire Retainers for Harness Boards see page 77

## AT2000 & AT2060 Bench Mount System

HellermannTyton offers a portable bench mount system which works with the AT2000 and AT2060 tool systems. It is extremely easy to set up and use. Within seconds, the AT2000 or the AT2060 can be converted from a handheld tool to a bench mount system. With the touch of the foot pedal, the cable tie is applied.



AT2000 and AT2060 Bench Mount System

| Product Selection |               |                 |                                                             |           |
|-------------------|---------------|-----------------|-------------------------------------------------------------|-----------|
| Article No.       | Part No.      | Type            | Description                                                 | Pkg. Qty. |
| 120-00040         | AT2BENCHMOUNT | Bench Mount Kit | Includes foot pedal, tie reel stand and tool mounting stand | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## AT2000 or AT2060 Overhead Suspension Assembly

HellermannTyton's overhead suspension assembly system holds the AT2000 or AT2060, reel of cable ties, and power source. The overhead assembly is available in several configurations in a variety of mounting options and is easily integrated into various manufacturing environments. The modular design allows for easy additions or modifications of the system design.

The overhead assembly system provides additional ergonomic advantages to the AT2000 and AT2060. The system features overhead hanging, a trolley slide which allows for mobility within the frame, and an adjustable counter balance. These features allow for low operator strain and easy use. Since the assembly integrates the automatic cable tie systems and reel of ties, continuous feed is achieved. Reloading of cable ties is greatly reduced, further optimizing efficiencies.

*The picture shows just one configuration of an overhead assembly.*



The HellermannTyton team of tool systems specialists will assist in the custom design of a system to specially accommodate individual manufacturing sites and production needs. The modular features and inherent ergonomic benefits improve production and make operation more efficient.

Contact HellermannTyton for more information. Fasteners for unit assembly are included. Permanent mounting fasteners are not included.



*Mobile Trolley Unit Configuration*

## AT2000 Battery Pack

HellermannTyton's battery pack powers the AT2000 and is worn by the operator, allowing for complete mobility.

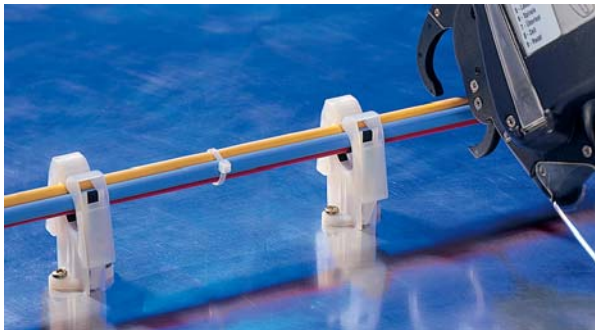


| Product Selection |                   |                 |                                           |           |
|-------------------|-------------------|-----------------|-------------------------------------------|-----------|
| Article No.       | Part No.          | Type            | Description                               | Pkg. Qty. |
| 120-00030         | <b>AT06500030</b> | Battery Pack    | Battery with belt clip and connector cord | 1         |
| 120-00010         | <b>AT06500020</b> | Battery Charger | Charging unit for battery                 | 1         |

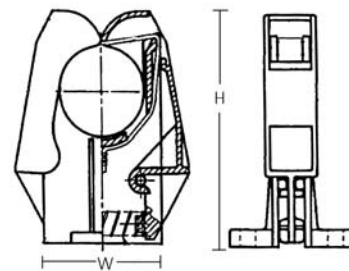
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Wire Retainer for Harness Boards

Designed for use in harness board assemblies, these wire retainers stand-off wire and cable bundles for easier cable tie application. Wires are individually inserted, and bundles are preformed, making harnessing easier.



Wire Retainer for Harness Boards



| Product Selection |              |      |                        |  | Height (H) | Width (W)  | Max. Ø Bundle | Pkg. Qty. |
|-------------------|--------------|------|------------------------|--|------------|------------|---------------|-----------|
| Article No.       | Part No.     | Type | Description            |  |            |            |               |           |
| 120-00080         | <b>HH-20</b> | HH20 | Harness Board Assembly |  | 2.12" (54) | 1.22" (31) | .83" (20)     | 25        |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Cable Tie Tools

### AutoTool System 3080 For bundles up to 3.14"

HellermannTyton's ATS3080 automatically installs cable ties for bundles up to 3.14" in diameter with one trigger depression. This innovative system utilizes strap and closures (ordered separately) to achieve a waste free system. The ATS3080 uses only the required strap length required for the diameter. The strap is outside serrated so that it will not damage sensitive wire and cable bundles.

This well balanced tool has ergonomic benefits that include low weight and a comfortable hand grip which reduces operator strain and injury while installing cable ties. The ATS3080 possesses a LED panel that provides critical operational feedback that makes it easier to maintain and operate the tool.

The ATS3080 has three jaw diameters available; 1.18" (30mm), 1.96" (50mm), and 3.14" (80mm). The jaws are easily interchanged and further tool adjustment between the three jaw diameters is unnecessary.



ATS3080 Technical Specifications

|               |                                        |
|---------------|----------------------------------------|
| Power Supply  | <b>Electrical</b>                      |
| Cycle Time    | <b>approx. 1.3 sec. (50 mm jaw)</b>    |
| Weight        | <b>3.2lbs</b>                          |
| Installation  | <b>Mobile, bench mount or overhead</b> |
| Tension Force | <b>Adjustable</b>                      |



Closures and strap for ATS3080



ATS3080 Cable Tie Specifications

|                                |                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------|
| Material                       | <b>Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV)</b> |
| Operating Temperature          | <b>-40 °C to +95 °C continuous, (+105 °C for 5000 h)</b>                        |
| Flammability                   | <b>UL94 HB</b>                                                                  |
| <b>Strap Reel Dimensions</b>   |                                                                                 |
| Reel Diameter                  | <b>15.25" (387 mm)</b>                                                          |
| Reel Width                     | <b>3.5" (88.9 mm)</b>                                                           |
| Reel Weight                    | <b>6lbs (2.72 kg)</b>                                                           |
| <b>Closure Reel Dimensions</b> |                                                                                 |
| Reel Diameter                  | <b>15.25" (387 mm)</b>                                                          |
| Reel Width                     | <b>3.5" (88.9 mm)</b>                                                           |
| Reel Weight                    | <b>3.5lbs (1.58 kg)</b>                                                         |







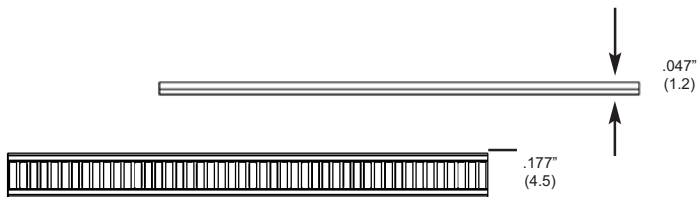
ATS3080 with mobile trolley unit



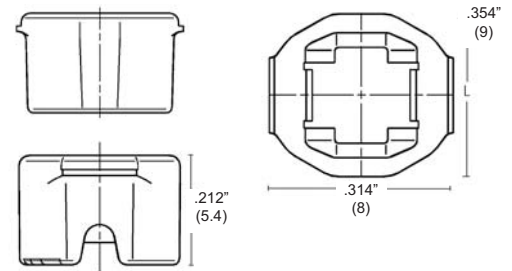
ATS3080 with overhead



ATS3080 with bench mount



Strap ATS3080



Closures ATS3080

## Product Selection

| Article No.                       | Part No.           | Type                     | Description                                                                                                                                               | Min Tensile Unlocking Strength (lbs) | Pkg. Qty. ft. (m) |
|-----------------------------------|--------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------|
| 102-00000                         | <b>ATS3080</b>     | ATS3080                  | Includes ATS3080 tool, power cord, tool cord, and maintenance and operation manual. Does not include power supply.                                        |                                      | 1                 |
| 102-00010                         | <b>ATS10200010</b> | Power Pack ATS3080       | Power Supply Unit for ATS3080<br>Input: 230/115 VAC, 50-60 Hz<br>Output: 48 VDC, max. 50W                                                                 |                                      | 1                 |
| <b>Natural Strap and Closures</b> |                    |                          |                                                                                                                                                           |                                      |                   |
| 102-66109                         | <b>ATS10266109</b> | Strap Natural ATS3080    | ATS3080 Strap                                                                                                                                             | 50 lbs                               | 1640 ft. (500)    |
| 102-66209                         | <b>ATS10266209</b> | Closures Natural ATS3080 | ATS3080 Closure                                                                                                                                           | 50 lbs                               | 5000 pcs          |
| <b>Black Strap and Closures</b>   |                    |                          |                                                                                                                                                           |                                      |                   |
| 102-66110                         | <b>ATS10266110</b> | Strap Black ATS3080      | ATS3080 Strap                                                                                                                                             | 50 lbs                               | 1640 ft. (500)    |
| 102-66210                         | <b>ATS10266210</b> | Closures Black ATS3080   | ATS3080 Closures                                                                                                                                          | 50 lbs                               | 5000 pcs          |
| 102-00040                         | <b>ATS10200040</b> | Bench Mount Kit          | Bench Mount Kit for ATS 3080<br>Integrated pneumatic system that coordinates tool and reels.<br>Foot pedal application, other actuation options available |                                      | 1                 |
| 102-00050                         | <b>ATS10200050</b> | Overhead Suspender       | Overhead Suspender ATS 3080                                                                                                                               |                                      | 1                 |
| 102-00030                         | <b>ATSTROLLEY</b>  | Trolley ATS 3080         | Trolley                                                                                                                                                   |                                      | 1                 |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Tie Tools

### Quick Tool

HellermannTyton's Quick Tool is an automatic bench mount system suited for high volume cable tie applications. This air powered tool accommodates a reel of 5,000 ties and, like HellermannTyton's other automated systems, can be integrated into further automation as well as fully incorporated into conveyor or assembly line applications.

#### Product Features

- The system is a one piece, bench top unit which increases efficiency through quick and reliable fastening.
- It can be installed where a 110 VAC electrical outlet and pneumatic air source are available.
- Provides consistent fastening tension.
- Controls fastening tension.
- Ties are available in two styles: standard and heat stabilized.
- Custom colors for Quick Tool ties are also available. Contact HellermannTyton for more information.



QS101 Cable Tie Specifications

|                                       |                                              |
|---------------------------------------|----------------------------------------------|
| <b>Operating Temperature</b>          |                                              |
| Natural                               | <b>-40 °F to +185 °F (-40 °C to +85 °C)</b>  |
| Polyamide 6.6                         |                                              |
| Heat stabilized, black, Polyamide 6.6 | <b>-40 °F to +221 °F (-40 °C to +105 °C)</b> |
| Reel Diameter                         | <b>18" (457 mm)</b>                          |
| Reel Width                            | <b>5.20" (132 mm)</b>                        |
| Reel Weight                           | <b>4.8 lbs (2.18 kg)</b>                     |



QS101 Technical Specifications

|               |                                          |
|---------------|------------------------------------------|
| Max. Ø Bundle | <b>0.630" (16.00 mm)</b>                 |
| Wattage       | <b>70W</b>                               |
| Power Supply  | <b>Electrical/Pneumatic Power</b>        |
| Cycle Time    | <b>1.2 Seconds</b>                       |
| Weight        | <b>40 lbs.</b>                           |
| Installation  | <b>Bench</b>                             |
| Tension Force | <b>Adjustable (9.92 lbs - 19.84 lbs)</b> |

Product Selection

| Article No. | Part No.     | Type  | Description                                                                       | Min Tensile Unlocking Strength (lbs) | Max. Ø Bundle<br>in.<br>(mm) | Width (W)<br>in.<br>(mm) | Length (L)<br>in.<br>(mm) | Pkg. Qty. |
|-------------|--------------|-------|-----------------------------------------------------------------------------------|--------------------------------------|------------------------------|--------------------------|---------------------------|-----------|
| 105-00000   | <b>QS101</b> | QS101 | Includes Quick Tool, power cord, maintenance and operation manual and foot pedal. |                                      |                              |                          |                           | 1         |

#### Natural Cable Ties

|           |               |        |                                                 |    |            |             |             |                                                         |
|-----------|---------------|--------|-------------------------------------------------|----|------------|-------------|-------------|---------------------------------------------------------|
| 105-00006 | <b>QTTIE9</b> | QTTIE9 | Cable ties on reel for use with the Quick Tool. | 18 | .63 " (16) | .10 " (2.5) | 4.0 " (101) | 10,000 per carton: 5,000 per reel<br>2 reels per carton |
|-----------|---------------|--------|-------------------------------------------------|----|------------|-------------|-------------|---------------------------------------------------------|

#### Black Heat Stabilized Cable Ties

|           |                 |          |                                                 |    |            |             |             |                                                         |
|-----------|-----------------|----------|-------------------------------------------------|----|------------|-------------|-------------|---------------------------------------------------------|
| 105-00001 | <b>QTTIEOHS</b> | QTTIEOHS | Cable ties on reel for use with the Quick Tool. | 18 | .63 " (16) | .10 " (2.5) | 4.0 " (101) | 10,000 per carton: 5,000 per reel<br>2 reels per carton |
|-----------|-----------------|----------|-------------------------------------------------|----|------------|-------------|-------------|---------------------------------------------------------|

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Various colored cable ties available upon request. Contact HellermannTyton for more information and lead times.