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### Trust Ty-Rap® Cable Ties to securely fasten your cables!

#### Installers Know and Trust Ty-Rap High-Performance Fastening Products from Thomas & Betts

Wire and cable bundling is an integral part of modern electrical and electronic installations. To finish your harnessing and bundling project as reliably, professionally looking and economically as possible, choose genuine Ty-Rap cable ties. These fastening systems include a full range of cable ties, identification ties, clamps, bases, harnessing aids and installing tools. Using Ty-Rap fastening systems for all fastening jobs, large and small, will speed and improve the reliability of harnessing and wire bundling while saving you money.



#### Harnessing

- Harness Board pre-wiring prior to installation
- Large OEMs — Automotive, Aerospace, Computers, Electronics, Copiers, Appliances and other Durable Goods

T&B fastening systems for large volume cable tying combine high-speed ergonomically designed tools, along with a wide selection of ties and harnessing aids to meet your application requirements. Accessories include various mounting bases, harnessing aids, retainers, clips, clamps, supports, posts, pins and guides that allow the wire to be quickly routed with or without the use of harness nails.

#### Other Applications

- HVAC
- Recreational
- Telecom & Utility
- Packaging



Ty-Rap cable ties are remarkably well suited for a variety of other non-electrical applications. Ty-Rap cable ties exceed UL 1565 requirements for smoke developed and heat release for use in air handling spaces. Ty-Rap cable ties meet international standards such as CSA and CE as well as UL,  Belcor, ADC and military specifications in North America. T&B also offers a complete stainless steel and Deltec® cable fastening system for demanding and weather-resistant applications. Choose genuine Ty-Rap cable ties for the rugged "Grip of Steel." Look for the oval head.



#### Point-to-Point and Long Distance Wiring

- Bundling & fastening cables between equipment
- Panel & Machine Tool Builders
- Industrial & Commercial Applications, Refineries, Office Buildings

Installers prefer the ease of use and exceptional durability of genuine Ty-Rap cable ties. Engineered for labor savings and high performance, Ty-Rap cable ties are commonly used in a variety of applications. Standoffs, bulkhead mounting bases, adhesive mounting bases and a wide variety of clamping devices will meet or exceed any requirements. Weatherable and special material Ty-Rap cable ties are exceptionally suited for years of service in extreme environments.

#### Cable Fastening Accessories

Choose from one of the largest assortments of mounting bases, clips and clamps, spacers, lashing straps, harness board accessories, braided wire protection sleeving, and accessories for your fastening needs. Use Thomas & Betts cable fastening accessories for the finishing touch on your next wiring project.

#### Tools

Ty-Rap installing tools properly complete the installation of the cable tie. Ties are cinched to the proper tension and the excess tail is cut off precisely flush with the head, leaving no sharp corners or ragged edges. Ty-Rap installing tools are lightweight with narrow noses and slim profiles for work in tight spaces or between harness board nails. The operation is quick, reliable and cost effective.



### Why Choose Genuine Ty-Rap® Cable Ties?

#### Oval, Low Profile Head

gives a professional, quality look to wire bundling projects. The classic-shaped head is designed to prevent snags on uneven surfaces and easier to pull through bulkheads. There are no sharp edges, so these ties are also easier on the installer's hands.



The **Turned-up Tail** orients the tie for easy assembly, making the ties easier to pick up on a flat surface.

**No-Slip Tail** provides easy grip during tensioning. Ty-Rap cable ties feature a unique friction surface designed to reduce slippage during installation.



For a whole bundle of reasons, trust only Genuine **Ty-Rap Cable Ties** by Thomas & Betts in your next wiring installation.



**"The Grip of Steel®" Non-Magnetic Stainless Steel Locking Device** insures both maximum strength and the right tightness every time. Because there are no notches, Ty-Rap Cable Ties provide an infinite number of locking positions while fastening the tie at the precise bundle diameter needed.

**Versatile Nylon 6.6 Material** provides high strength, a wide temperature range and prevents toxic or irritating emissions. Ty-Rap Cable Ties are also available in weather-resistant versions, heat-stabilized, flame-retardant, polypropylene, nylon 12, hook and loop, fluoropolymer, and stainless steel materials for a variety of extreme environments.

**Smooth, Notchless Body** reduces stress concentration points under tension, making the tie stronger and lower profile than notched body ties.

**Ribbed and Stippled Body** "grips" the bundle and prevents slippage. Rounded edges protect insulation, preventing sharp edges from damaging cables.



# Ty-Rap®

## Cable Ties

### Ty-Rap® Nylon 6.6 Cable Ties



TY523M — Tie body width .091"



TY524M — Tie body width .140"



TY525M — Tie body width .187"



TY527M — Tie body width .270"



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | BODY WIDTH IN./MM. | LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | MILITARY STANDARD PART NO. | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|--------------------|----------------|-------------------------------|----------------------------|--------------------------|----------------|----------------|
| TY523M             | TY23M              | .09/2.29           | 3.62/91.95     | .63/16.00                     | MS3367-4                   | 18/80.07                 | 100            | 1,000          |
| TY52315M           | TYB2315M           | .09/2.29           | 7.00/177.80    | 1.50/38.10                    | —                          | 18/80.07                 | 100            | 1,000          |
| TY5232M            | TY232M             | .09/2.29           | 8.00/203.20    | 2.00/50.80                    | —                          | 18/80.07                 | 100            | 1,000          |
| TY5234M            | TY234M             | .09/2.29           | 14.00/355.60   | 4.00/101.60                   | —                          | 18/80.07                 | 100            | 1,000          |
| TY524M             | TY24M              | .14/3.56           | 5.50/139.70    | 1.13/28.70                    | MS3367-5                   | 40/177.90                | 100            | 1,000          |
| TY5242M            | TY242M             | .14/3.56           | 8.19/208.03    | 2.00/50.80                    | —                          | 40/177.90                | 100            | 1,000          |
| TY526M             | TY26M              | .14/3.56           | 11.10/281.94   | 3.00/76.20                    | —                          | 30/133.40                | 100            | 1,000          |
| TY5244M            | TY244M             | .14/3.56           | 14.50/368.30   | 4.00/101.60                   | —                          | 30/133.40                | 100            | 1,000          |
| TY525M             | TY25M              | .19/4.83           | 7.31/185.67    | 1.75/44.45                    | MS3367-1                   | 50/222.40                | 100            | 1,000          |
| TY5253M            | TY253M             | .19/4.83           | 11.60/294.64   | 3.00/76.20                    | MS3367-7                   | 50/222.40                | 100            | 1,000          |
| TY528M             | TY28M              | .19/4.83           | 14.20/360.68   | 4.00/101.60                   | MS3367-2                   | 50/222.40                | 100            | 1,000          |
| TY5272M†           | TY272M†            | .27/6.86           | 8.75/222.250   | 2.00/50.80                    | —                          | 120/533.80               | 50             | 500            |
| TY527M†            | TY27M†             | .27/6.86           | 13.40/340.36   | 3.50/88.90                    | MS3367-3                   | 120/533.80               | 50             | 500            |
| TY5275M            | TY275M             | .27/6.86           | 18.00/457.20   | 5.00/127.00                   | —                          | 120/533.80               | 50             | 500            |
| TY5277M            | TY277M             | .27/6.86           | 24.30/617.22   | 7.00/177.80                   | —                          | 120/533.80               | 50             | 500            |
| TY529M             | TY29M              | .27/6.86           | 30.00/762.00   | 9.00/228.60                   | MS3367-6                   | 120/533.80               | 50             | 500            |
| TY53510M†          | —                  | .32/8.13           | 35.00/889.00   | 10.00/254.00                  | —                          | 175/778.40               | 50             | —              |
| TY54513M†          | —                  | .32/8.13           | 45.00/1143.00  | 13.00/330.20                  | —                          | 175/778.40               | 50             | —              |

Cable ties made from natural nylon 6.6 are excellent performers in most applications.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

† Recognized Models

• UL Listed Natural 6.6 Nylon Cable Ties are suitable for use in air handling spaces (plenums) in accordance with Section 300.22 (C) & (D) of the National Electrical Code.

• UL File No. E49405

• Natural nylon color

The colors you need in convenient packs!

### Ty-Rap® UV-Resistant Nylon 6.6 Cable Ties — Color Assortment



- Construction — UV-Stabilized nylon 6.6, 316 stainless steel locking device



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | DESCRIPTION                                                           | LENGTH IN./MM | TENSILE STRENGTH LBS./N. | STD. BULK QTY. |
|--------------------|--------------------|-----------------------------------------------------------------------|---------------|--------------------------|----------------|
| —                  | TY525M-CLRS        | Multi-Colored, UV-Stabilized Nylon, (10 each of standard ten colors)* | 7.31/185.67   | 50/222.40                | 100 Ties       |
| —                  | TY25M-X            | Black, UV-Stabilized Nylon                                            | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-1            | Brown, UV-Stabilized Nylon                                            | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-2            | Red, UV-Stabilized Nylon                                              | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-3            | Orange, UV-Stabilized Nylon                                           | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-4            | Yellow, UV-Stabilized Nylon                                           | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-5            | Green, UV-Stabilized Nylon                                            | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-6            | Blue, UV-Stabilized Nylon                                             | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-7            | Purple, UV-Stabilized Nylon                                           | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-8            | Gray, UV-Stabilized Nylon                                             | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-9            | White, UV-Stabilized Nylon                                            | 7.31/185.67   | 50/222.40                | 1,000 Ties     |
| —                  | TY25M-22           | Beige, UV-Stabilized Nylon                                            | 7.31/185.67   | 50/222.40                | 1,000 Ties     |

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Suitable for use in air handling spaces in accordance with Section 300.22 (C) & (D) of the National Electrical Code.

\* 100 standard ties in black, brown, red, orange, yellow, green, blue, purple, gray, and white (10 each)

Recommended tooling — ERG-50, WT1-TB

**Note:** The base catalog number for Ty-Rap® cable ties is for natural (non-colored) nylon without the UV-stabilizing additive, which is not suitable for outdoor use. For colored UV-stabilized nylon Ty-Rap® cable ties, add the following suffix numbers to the base catalog numbers. For example, TY25M is natural (non-colored) nylon for indoor use only, while TY25M-2 is red UV-stabilized nylon for indoor or outdoor use. (Consult customer service for ordering information.)

| COLOR | SUFFIX NO. | COLOR  | SUFFIX NO. | COLOR  | SUFFIX NO. | COLOR | SUFFIX NO. |
|-------|------------|--------|------------|--------|------------|-------|------------|
| Black | X          | Orange | 3          | Blue   | 6          | White | 9          |
| Brown | 1          | Yellow | 4          | Purple | 7          | Beige | 22         |
| Red   | 2          | Green  | 5          | Gray   | 8          |       |            |

### How to Order Colored Ty-Rap® Cable Ties and Accessories

Thomas & Betts

www.tnb.com

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

Technical Services  
Tel: 888.862.3289

# Ty-Rap®

## Cable Ties

Cable ties at your fingertips!

### Ty-Rap Tote® 4", 8" and 11"-14" Combination Length Cable Tie Dispensers

- Durable, lightweight polyester exterior and tough vinyl interior construction
- Rugged diamond-shaped cutout for easy access to cable ties (up to 8", 11"-14" lengths) and rectangular-shaped (for 4" length)
- Handy belt clip and chrome steel loop for easy attachment
- Resealable hook-and-loop flap for easy refill
- Includes 100 genuine Ty-Rap® cable ties



| STD PKG.<br>CAT. NO. | DESCRIPTION                                                       | STD. PKG. QTY. |
|----------------------|-------------------------------------------------------------------|----------------|
| TY-TOTE-25           | Ty-Rap Tote® 8" Cable Tie Dispenser (includes 1 pkg. TY525M)      | 1              |
| TY-TOTE-23           | Ty-Rap Tote® 4" Cable Tie Dispenser (includes 1 pkg. TY523M)      | 1              |
| TY-TOTE-28           | Ty-Rap Tote® 11"-14" Cable Tie Dispenser (includes 1 pkg. TY528M) | 1              |

Order only genuine Ty-Rap® Cable Ties to refill your dispenser!

### Ty-Rap® Nylon 6.6 Cable Ties — Weather Resistant



TY523MX X — Tie body width .091"

TY524MX — Tie body width .140"

TY525MX — Tie body width .187"

TY5272MX — Tie body width .270"

| STD. PKG.<br>CAT. NO. | BULK PKG.<br>CAT. NO. | BODY<br>WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | MAX. WIRE<br>BUNDLE DIA.<br>IN./MM. | MILITARY<br>STANDARD<br>PART NO. | TENSILE<br>STRENGTH<br>LBS./N. | STD.<br>PKG. QTY. | BULK<br>PKG. QTY. |
|-----------------------|-----------------------|--------------------------|-------------------|-------------------------------------|----------------------------------|--------------------------------|-------------------|-------------------|
| TY523MX               | TY23MX                | .09/2.29                 | 3.62/91.95        | .63/16.00                           | MS3367-4                         | 18/80.07                       | 100               | 1,000             |
| TY52315MX             | TYB2315MX             | .09/2.29                 | 7.00/177.80       | 1.50/38.10                          | —                                | 18/80.07                       | 100               | 1,000             |
| TY5232MX              | TY232MX               | .09/2.29                 | 8.00/203.20       | 2.00/50.80                          | —                                | 18/80.07                       | 100               | 1,000             |
| TY5234MX              | TY234MX               | .09/2.29                 | 14.00/355.60      | 4.00/101.60                         | —                                | 18/80.07                       | 100               | 1,000             |
| TY524MX               | TY24MX                | .14/3.56                 | 5.50/139.70       | 1.13/28.70                          | MS3367-5                         | 40/177.90                      | 100               | 1,000             |
| TY5242MX              | TY242MX               | .14/3.56                 | 8.19/208.03       | 2.00/50.80                          | —                                | 40/177.90                      | 100               | 1,000             |
| TY526MX               | TY26MX                | .14/3.56                 | 11.10/281.94      | 3.00/76.20                          | —                                | 30/133.40                      | 100               | 1,000             |
| TY5244MX              | TY244MX               | .14/3.56                 | 14.50/368.30      | 4.00/101.60                         | —                                | 30/133.40                      | 100               | 1,000             |
| TY525MX               | TY25MX                | .19/4.83                 | 7.31/185.67       | 1.75/44.45                          | MS3367-1                         | 50/222.40                      | 100               | 1,000             |
| TY5253MX              | TY253MX               | .19/4.83                 | 11.60/294.64      | 3.00/76.20                          | MS3367-7                         | 50/222.40                      | 100               | 1,000             |
| TY528MX               | TY28MX                | .19/4.83                 | 14.20/360.68      | 4.00/101.60                         | MS3367-2                         | 50/222.40                      | 100               | 1,000             |
| TY5272MX†             | TY272MX†              | .27/6.86                 | 8.75/222.250      | 2.00/50.80                          | —                                | 120/533.80                     | 50                | 500               |
| TY527MX†              | TY27MX†               | .27/6.86                 | 13.40/340.36      | 3.50/88.90                          | MS3367-3                         | 120/533.80                     | 50                | 500               |
| TY5275MX              | TY275MX               | .27/6.86                 | 18.00/457.20      | 5.00/127.00                         | —                                | 120/533.80                     | 50                | 500               |
| TY5277MX              | TY277MX               | .27/6.86                 | 24.30/617.22      | 7.00/177.80                         | —                                | 120/533.80                     | 50                | 500               |
| TY529MX*              | TY29MX*               | .27/6.86                 | 30.00/762.00      | 9.00/228.60                         | MS3367-6                         | 120/533.80                     | 50                | 500               |
| TY53510MX†            | —                     | .32/8.13                 | 35.00/889.00      | 10.00/254.00                        | —                                | 175/778.40                     | 50                | —                 |
| TY54513MX†            | —                     | .32/8.13                 | 45.00/1143.00     | 13.00/330.20                        | —                                | 175/778.40                     | 50                | —                 |

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

\* For military compliance of weather-resistant black 120-lb. ties, replace suffix X with O (i.e., TY27M-O).

† Not Listed or Recognized Models.

• UL File No. E49405

• Black color

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Technical Services  
Tel: 888.862.3289

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Ty-Rap®

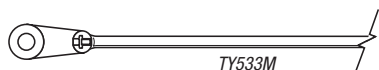
Cable Ties



TY533M



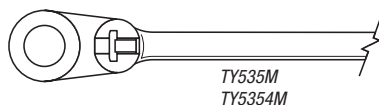
TYF535M



TY533M

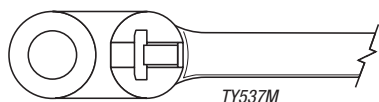


TY534M



TY535M

TY5354M



TY537M

Great for use with screws,  
nuts and bolts for secure fastening to surfaces.

## Ty-Rap® Nylon 6.6 Mounting Head Cable Ties



| STD.<br>CAT. NO. | BULK<br>CAT. NO. | BODY<br>WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | MAX. WIRE<br>BUNDLE DIA.<br>IN./MM. | MOUNTING<br>HOLE | TENSILE<br>STRENGTH<br>LBS./N. | STD.<br>PKG. QTY. | BULK<br>PKG. QTY. |
|------------------|------------------|--------------------------|-------------------|-------------------------------------|------------------|--------------------------------|-------------------|-------------------|
| TY533M           | TY33M            | .09/2.29                 | 4.00/101.60       | .63/16.00                           | #4               | 18/80.07                       | 100               | 1,000             |
| TY534M           | TY34M            | .14/3.56                 | 6.00/152.40       | 1.13/28.70                          | #8               | 40/177.90                      | 100               | 1,000             |
| TY535M           | TY35M            | .18/4.57                 | 7.80/198.12       | 1.75/44.45                          | #10              | 50/222.40                      | 100               | 1,000             |
| TY5354M          | TY354M           | .18/4.57                 | 14.60/370.84      | 4.00/101.60                         | #10              | 50/222.40                      | 100               | 1,000             |
| —                | TY635M           | .19/4.83                 | 7.80/198.12       | 1.77/44.96                          | .19              | 50/222.40                      | —                 | 1,000             |
| TYF535M          | TYF35M           | .19/4.83                 | 7.24/183.90       | 1.77/44.96                          | .19              | 50/222.40                      | 100               | 1,000             |
| TY537M           | TY37M            | .30/7.62                 | 13.90/353.06      | 3.50/88.90                          | ¼                | 120/533.80                     | 50                | 500               |

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

• Natural nylon color



## Ty-Rap® Nylon 6.6 Mounting Head Cable Ties — Weather Resistant

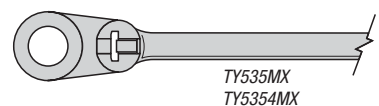
The MX series cable ties are recommended for outdoor use. The addition of carbon black provides good ultraviolet resistance and prolongs the useful life of the cable tie.



TY533MX

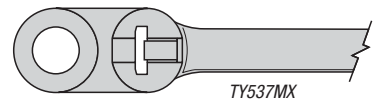


TY534MX



TY535MX

TY5354MX



TY537MX

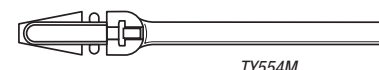
| STD.<br>CAT. NO. | BULK<br>CAT. NO. | BODY<br>WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | MAX. WIRE<br>BUNDLE DIA.<br>IN./MM. | MOUNTING<br>HOLE | TENSILE<br>STRENGTH<br>LBS./N. | STD.<br>PKG. QTY. | BULK<br>PKG. QTY. |
|------------------|------------------|--------------------------|-------------------|-------------------------------------|------------------|--------------------------------|-------------------|-------------------|
| TY533MX          | TY33MX           | .09/2.29                 | 4.00/101.60       | .63/16.00                           | #4               | 18/80.07                       | 100               | 1,000             |
| TY534MX          | TY34MX           | .14/3.56                 | 6.00/152.40       | 1.13/28.70                          | #8               | 40/177.90                      | 100               | 1,000             |
| TY535MX          | TY35MX           | .18/4.57                 | 7.80/198.12       | 1.75/44.45                          | #10              | 50/222.40                      | 100               | 1,000             |
| TY5354MX         | TY354MX          | .18/4.57                 | 14.60/370.84      | 4.00/101.60                         | #10              | 50/222.40                      | 100               | 1,000             |
| TY537MX          | TY37MX           | .30/7.62                 | 13.90/353.06      | 3.50/88.90                          | ¼                | 120/533.80                     | 50                | 500               |

• Black color

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).



TY538M



TY554M

## Ty-Rap® Nylon 6.6 Push Mount Cable Ties

For use in ⅜" and ¼" pre-drilled holes. Thickness panel .09 max. (TY554M)  
Range .04–156 (TY538M)



| STD.<br>CAT. NO. | BULK<br>CAT. NO. | BODY<br>WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | MAX. WIRE<br>BUNDLE DIA.<br>IN./MM. | MOUNTING<br>HOLE | TENSILE<br>STRENGTH<br>LBS./N. | STD.<br>PKG. QTY. | BULK<br>PKG. QTY. |
|------------------|------------------|--------------------------|-------------------|-------------------------------------|------------------|--------------------------------|-------------------|-------------------|
| TY554M           | TY54M            | .14/3.56                 | 5.96/151.38       | 1.13/28.70                          | ⅜                | 40/177.90                      | 100               | 1,000             |
| TY538M           | TY38M*           | .18/4.57                 | 7.80/198.12       | 1.75/44.45                          | ¼                | 50/222.40                      | 100               | 1,000             |

\*Nylon 6.6 UV weather resistant version available (TY38MX).

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

• Natural nylon color

Thomas & Betts

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

Technical Services  
Tel: 888.862.3289

Keep your cables clearly identified!

### Ty-Rap® Nylon 6.6 Identification Cable Ties

Self-locking Ty-Rap® identification ties are available in both single and multiple configurations. They can be marked with the special Thomas & Betts black or red marking pen (see **page D-8**) that immediately produces a permanent legend, or they can be heat stamped. Because the ties serve the dual purpose of tying and identifying, you will achieve extra economies. They can be applied with the standard Ty-Rap® tying tools used for regular ties.



| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM. | TOTAL LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | MILITARY STANDARD PART NO. | MARKING PAD SIZE IN./MM. W X H | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. | BULK PKG. QTY. |
|---------------|---------------|--------------------|----------------------|-------------------------------|----------------------------|--------------------------------|--------------------------|----------------|----------------|
| TY551M        | TY51M         | .09/2.29           | 3.60/91.44           | .63/16.00                     | MS3368-5                   | 1 x .313                       | 18/80.07                 | 100            | 500            |
| TY5512M       | TY512M*       | .09/2.29           | 8.30/210.82          | 2.00/50.80                    | —                          | 1 x .313                       | 18/80.07                 | 100            | 1,000          |
| TY553M        | TY53M         | .09/2.29           | 4.00/101.6           | .63/16.00                     | —                          | .813 x .359                    | 18/80.07                 | 100            | 500            |
| TY5532M       | TY532M        | .09/2.29           | 8.40/213.36          | 2.00/50.80                    | —                          | .813 x .359                    | 18/80.07                 | 100            | 1,000          |
| —             | TY153M        | .10/2.54           | 4.35/110.49          | .63/16.00                     | —                          | .781 x 1                       | 18/80.07                 | —              | 500            |
| TY546M        | TY46M         | .18/4.57           | 7.10/180.34          | 1.75/44.45                    | MS3368-1                   | .5 x .875                      | 50/222.40                | 100            | 1,000          |
| TY548M        | TY48M*        | .19/4.83           | 14.20/360.68         | 4.00/101.6                    | MS3368-2                   | .5 x 2.125                     | 50/222.40                | 100            | 1,000          |
| TY546MD       | TY46MD*       | .19/4.83           | 7.25/184.15          | 1.75/44.45                    | MS3368-3                   | 1.172 x 1                      | 50/222.40                | 50             | 500            |
| TY546MT       | TY46MT*       | .19/4.83           | 7.25/184.15          | 1.75/44.45                    | MS3368-4                   | 1.210 x 1                      | 50/222.40                | 100            | 500            |
| TY546MF       | TY46MF        | .19/4.83           | 7.25/184.15          | 1.75/44.45                    | —                          | 2.48 x 1                       | 50/222.40                | 50             | 250            |

\*Nylon 6.6 UV weather resistant version available (add suffix "x").

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

• Natural nylon color

### Custom Heat Stamping

Thomas & Betts' Custom Heat Stamping provides an economical way to fasten and identify cable bundles. Mark nylon cable ties, identification cable ties, and identification plates to suit your application.

- 1/16", 1/8", 3/16" characters available
- Standard type — Gothic Capitol
- Character sizes can be mixed from line to line on Identification cable ties
- Alphanumeric and sequential numbering available
- Six-digit sequential numbering available in 1/16" characters
- Eight-digit sequential numbering available in 1/16" and 3/16" characters
- The following colors of heat stamping are available — black, blue, green, red, yellow, orange, and white
- Special logos and different type styles can be accommodated when camera-ready artwork is provided
- Minimum order quantity is 3,000 pieces per part number and message



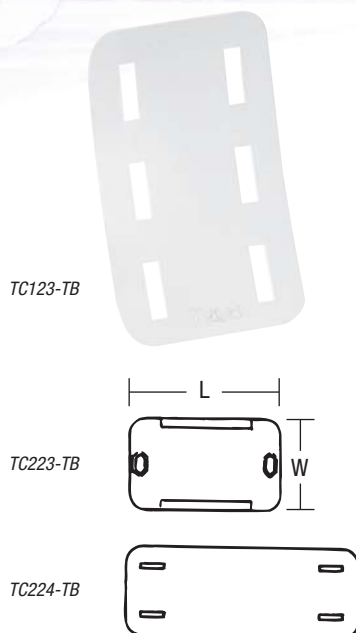
See E-Z-Code section I for all of your labeling needs.

EZL-100 Thermal label printer, see pages I-4.



Ty-Rap®

## Cable Ties



## Stay organized!

## Identification Tags

Ranging in length from 1.25" to 2.5", the identification plates are secured to the cable with Ty-Rap® ties. They are composed of .010"- and .015"-thick nylon 6,6,



and have a surface that can be marked easily. Thomas & Betts offers custom heat stamping of your plates at the factory.

| BULK PKG. CAT. NO. | WIDTH IN./MM | LENGTH IN./MM | THICKNESS IN./MM | MAX. CABLE TIE WIDTH IN./MM | # TIE SLOTS | BULK PKG. QTY. |
|--------------------|--------------|---------------|------------------|-----------------------------|-------------|----------------|
| TC123-TB           | .75/19.05    | 1.25/31.75    | .01/.25          | .19/4.83                    | 3           | 1,000          |
| TC124-TB           | .75/19.05    | 1.50/38.10    | .01/.25          | .19/4.83                    | 3           | 1,000          |
| TC125-TB           | .75/19.05    | 1.75/44.45    | .01/.25          | .19/4.83                    | 3           | 1,000          |
| TC126-TB           | .75/19.05    | 2.00/50.80    | .01/.25          | .19/4.83                    | 3           | 1,000          |
| TC128-TB           | .75/19.05    | 2.50/63.50    | .01/.25          | .19/4.83                    | 3           | 1,000          |
| TC223-TB           | .75/19.05    | 1.28/32.51    | .02/.51          | .19/4.83                    | 2           | 1,000          |
| TC224-TB           | .75/19.05    | 1.50/38.10    | .02/.51          | .19/4.83                    | 2           | 1,000          |
| TC225-TB           | .75/19.05    | 1.75/44.45    | .02/.51          | .19/4.83                    | 2           | 1,000          |
| TC226-TB           | .75/19.05    | 2.00/50.80    | .02/.51          | .19/4.83                    | 2           | 1,000          |
| TC228-TB           | .75/19.05    | 2.50/63.50    | .02/.51          | .19/4.83                    | 2           | 1,000          |

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

• Natural nylon color

## Mark and bundle simultaneously!

## Snap-On Identification Marker Tag

- Enables marking and bundling to be done in one operation
- The marking can be made with a Thomas & Betts permanent marking pen (black or red); catalog numbers: WT163M-1 (black), WT163M-3 (red)
- The identification tags are sold separately and can be conveniently snapped on the cable ties at the assembly location just before being installed on the bundle
- Made of natural nylon 6.6

Snaps onto the head of a conventional cable tie to convert it to an identification tie.

- When snapped onto the tie head, the tag is conveniently held in place until it is permanently fastened
- Offers maximized inventory control because the I.D. tag will accommodate different tie lengths and materials

| STD. CAT. NO. | BULK CAT. NO. | DESCRIPTION                                                                                     | MARKING PAD SIZE W x H (IN./MM) | STD. PKG. QTY. | BULK PKG. QTY. |
|---------------|---------------|-------------------------------------------------------------------------------------------------|---------------------------------|----------------|----------------|
| TC523         | TC23          | Snaps onto the heads of all miniature 18 lbs. (80.07 N.) series cable ties                      | 1 x .35/25.40 x 889.00          | 100            | 1,000          |
| TC524         | TC24          | Snaps onto the heads of all intermediate 30 (133.40 N.) & 40 (177.90 N.) lbs. series cable ties | 1 x .50/25.40 x 500.00          | 100            | 1,000          |
| TC525         | TC25          | Snaps onto the heads of all standard 50 lbs. series cable ties                                  | 1 x .50/25.40 x 500.00          | 100            | 1,000          |

• Natural nylon color

## Ty-Rap® Marking Pens

- Permanent ink
- Fine point tip

| CAT. NO. | COLOR INK | STD. PKG. QTY. |
|----------|-----------|----------------|
| WT163M-1 | Black     | 1              |
| WT163M-3 | Red       | 1              |

Thomas &amp; Betts

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### Striped-Colored TY-RAP® Cable Ties for Identification Telephone Cable Binder

Designed primarily for P.I.C. and station cable binder marking, these self-locking ties install without tools in less than 10 seconds. Compared to an installation time of 30–60 seconds using the twisted-wire method, the time saving is substantial. High-contrast color stripes extend to end of tail for instant, permanent identification of binder.



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | TIE COLOR | COLOR STRIPE | BODY WIDTH IN./MM | LENGTH IN./MM | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|-----------|--------------|-------------------|---------------|--------------------------|----------------|----------------|
| 696-40527-0C       | 696-40527-0        | Black     | —            | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-1-0C     | 696-40527-1-0      | Brown     | Black        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-1-2C     | 696-40527-1-2      | Brown     | Red          | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-1-4C     | 696-40527-1-4      | Brown     | Yellow       | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-1-7C     | 696-40527-1-7      | Brown     | Violet       | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-1-9C     | 696-40527-1-9      | Brown     | White        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-2C       | 696-40527-2        | Red       | —            | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-3-0C     | 696-40527-3-0      | Orange    | Black        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-3-2C     | 696-40527-3-2      | Orange    | Red          | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-3-4C     | 696-40527-3-4      | Orange    | Yellow       | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-3-7C     | 696-40527-3-7      | Orange    | Violet       | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-3-9C     | 696-40527-3-9      | Orange    | White        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-4C       | 696-40527-4        | Yellow    | —            | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-5-0C     | 696-40527-5-0      | Green     | Black        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-5-2C     | 696-40527-5-2      | Green     | Red          | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-5-4C     | 696-40527-5-4      | Green     | Yellow       | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-5-7C     | 696-40527-5-7      | Green     | Violet       | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-5-9C     | 696-40527-5-9      | Green     | White        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-6-0C     | 696-40527-6-0      | Blue      | Black        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-6-2C     | 696-40527-6-2      | Blue      | Red          | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-6-4C     | 696-40527-6-4      | Blue      | Yellow       | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-6-7C     | 696-40527-6-7      | Blue      | Violet       | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-6-9C     | 696-40527-6-9      | Blue      | White        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-8-0C     | 696-40527-8-0      | Slate     | Black        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-8-2C     | 696-40527-8-2      | Slate     | Red          | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-8-4C     | 696-40527-8-4      | Slate     | Yellow       | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |
| 696-40527-8-9C     | 696-40527-8-9      | Slate     | White        | .09/2.29          | 3.62/91.95    | 18/80.07                 | 50             | 1,000          |

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### Striped-Colored TY-RAP® Cable Tie Kits

| STD. PKG. CAT. NO. | DESCRIPTION                                                                 | STD. PKG. |
|--------------------|-----------------------------------------------------------------------------|-----------|
| 650-40587          | Pouch only                                                                  | 1         |
| 650-40587-1        | Pouch with TY-RAP® cable tie assortment 1 bag each of 50 each (1,250 total) | 1         |
| 650-40587C         | Cloth pouch only                                                            | 1         |
| 650-40587CF        | Cloth pouch with 1 bag of 50 each TY-RAP cable ties (1,250 total)           | 1         |
| 650-40587M         | Mini pouch only                                                             | 1         |
| 650-40587MF        | Mini pouch filled with assortment of TY-RAP cable ties (50 each)            | 1         |

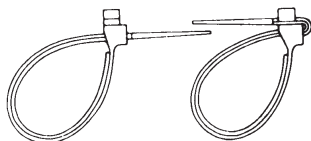


# Ty-Rap®

## Cable Ties

Use these ties again and again!

### Ty-Rap® Reusable Cable Ties



| STD. PKG. CAT. NO. | BODY WIDTH IN./MM. | LENGTH IN./MM. | BUNDLE DIA. IN./MM. | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. |
|--------------------|--------------------|----------------|---------------------|--------------------------|----------------|
| TYR505             | .18/4.57           | 7.50/190.50    | 1.75/1.75           | 50/222.40                | 100            |
| TYR508             | .18/4.57           | 14.30/363.22   | 4.00/101.60         | 50/222.40                | 100            |

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).  
• Natural nylon color



Secure wire bundles to masonry surfaces!

### Ty-Rap® Cable Tie for Masonry Surfaces



- Quickly secures wire bundles up to 1¼ inches in diameter to all masonry surfaces
- Equipped with a masonry plug that is driven into the drilled hole
- Once installed, the tail is looped through the head to provide a neat, safe, low-profile installation
- Constructed weather-resistant nylon

| STD. PKG. CAT. NO. | BODY WIDTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | MASONRY HOLE SIZE | PULLOUT FORCE LBS./N | STD. PKG. QTY. |
|--------------------|--------------------|-------------------------------|-------------------|----------------------|----------------|
| TY544MX            | .18/4.57           | 1.75/44.45                    | ¼                 | 25                   | 50             |

• For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).  
• Black color

Fast and safe!

### Ty-Rap® Cable Tie for Wooden Surfaces



- The Drive-Ty® cable tie gives you a fast, safe means of securing cables to wood surfaces

| STD. PKG. CAT. NO. | BODY WIDTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | PULLOUT FORCE LBS./N | STD. PKG. QTY. |
|--------------------|--------------------|-------------------------------|----------------------|----------------|
| TY545MX            | .18/4.57           | 1.5/38.10                     | 50/222               | 50             |

• For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).  
• Black color

Convenient one-piece design!

### Ty-Rap® Cable Tie for Panel and Chassis Mounting



- One-piece design, fast and convenient to use
- Clamping range of ⅞ to 2⅞ inches reduces your inventory — one clamp replaces many
- Visually attractive — head resembles rivet
- Locking grooves maintain tight grip
- Lowers your installed cost

| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM. | LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | HOLE SIZE IN./MM.  | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. | BULK PKG. QTY. |
|---------------|---------------|--------------------|----------------|-------------------------------|--------------------|--------------------------|----------------|----------------|
| TY541M        | TY41M         | .23/5.84           | 9.60/243.84    | 2.37/60.20                    | .32-.68/8.13-17.27 | 65/289.10                | 50             | 1,000          |
| 650-41600     | —             | .23/5.84           | 10.25/260.35   | 2.50/63.50                    | .32-.68/8.13-17.27 | 65/289.10                | 500            | 1,000          |
| 696-41848     | —             | .23/5.84           | 12.50/317.50   | 3.00/76.20                    | .32-.68/8.13-17.27 | 65/289.10                | 500            | 1,000          |

NOTE: Loop tie through hole in frame, around electrical, hydraulic, or air hoses to be clamped, and through head. Tighten and cut off with Ty-Rap tool. Visually looks like a rivet.

• For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).  
• Black color

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## Cable Ties — Material Selection Ordering Guide

### Select the cable ties you need for special environments!

Thomas & Betts offers Ty-Rap® cable ties and accessories in a wide variety of materials, each suited for specific environments. The purpose of this document is to assist you in choosing the best material for your particular application. The effects of weathering, flame, chemicals, extreme temperatures, and radiation on the different materials are clearly presented in the following tables to simplify this process. Once you have determined the most suitable material, you can choose from the wide variety of Ty-Rap® cable ties, identification ties, mounting bases, lashing ties, etc., offered by Thomas & Betts.

#### General — How to use Table 1:

Table 1 simplifies the material selection process by giving the relative performance ratings of the materials offered by Thomas & Betts. For example, if your application is in an extremely cold environment, four materials will answer your need: 1. Radiation resistant fluoropolymer, 2. Low smoke fluoropolymer, 3. Nylon 12, 4. Stainless steel. Then, cost may be your next most important criteria, so out of those four options, nylon 12 would be the most cost effective. However, if tensile strength is important, then stainless steel would be the better choice.

Refer to Tables 2 and 3 for more detailed information regarding physical properties of the materials and chemical resistance of the materials respectively.

It is extremely difficult to provide data on all the possible combinations or conditions that can occur. This information is based on data provided by the manufacturers of the specific materials listed and is provided only as a general guide. No specific recommendation is intended. As each application may differ, cable tie samples should be tested in the intended application by the user to determine suitability.

**Table 1 — Available Materials 5 = Most Suitable 1 = Least Suitable**

|                        | EXTRA<br>HIGH TEMP<br>4.6 NYLON | NATURAL<br>6.6 NYLON | WEATHER-<br>RESISTANT<br>6.6 NYLON | HEAT-<br>STABILIZED<br>U.V. 6.6<br>NYLON | HEAT-<br>STABILIZED<br>NATURAL<br>6.6 NYLON | FLAME-<br>RETARDANT<br>6.6 NYLON | WEATHER-<br>RESISTANT<br>NYLON 12 | WEATHER-<br>RESISTANT<br>POLY-<br>PROPYLENE | RADIATION<br>RESISTANT<br>FLUORO-<br>POLYMER | LOW-<br>SMOKE<br>FLUORO-<br>POLYMER | STAIN-<br>LESS<br>STEEL | DELTEC®<br>WEATHERABLE<br>ACETAL |
|------------------------|---------------------------------|----------------------|------------------------------------|------------------------------------------|---------------------------------------------|----------------------------------|-----------------------------------|---------------------------------------------|----------------------------------------------|-------------------------------------|-------------------------|----------------------------------|
| Ultraviolet Resistance | 1                               | 1                    | 4                                  | 4                                        | 1                                           | 1                                | 4                                 | 4                                           | 5                                            | 5                                   | 5                       | 4                                |
| Radiation Resistance   | 1                               | 1                    | 1                                  | 1                                        | 1                                           | 1                                | 1                                 | 1                                           | 4                                            | 4                                   | 5                       | 1                                |
| Low Temperature        | 3                               | 3                    | 3                                  | 4                                        | 3                                           | 2                                | 4                                 | 3                                           | 4                                            | 4                                   | 5                       | 4                                |
| High Temperature       | 4                               | 3                    | 3                                  | 3                                        | 4                                           | 3                                | 2                                 | 2                                           | 4                                            | 4                                   | 5                       | 2                                |
| Flammability           | 3                               | 3                    | 3                                  | 3                                        | 3                                           | 4                                | 1                                 | 1                                           | 4                                            | 4                                   | 5                       | 1                                |
| Tensile Strength       | 3                               | 3                    | 3                                  | 3                                        | 3                                           | 3                                | 2                                 | 1                                           | 3                                            | 3                                   | 5                       | 2                                |
| Relative Cost          | Med                             | Low                  | Low                                | Low                                      | Low                                         | Med                              | Med                               | Low                                         | High                                         | High                                | High                    | High                             |
| Chemical Resistance    | See Table 3 (Page D-12)         |                      |                                    |                                          |                                             |                                  |                                   |                                             |                                              |                                     |                         |                                  |

#### Flammability ratings for selecting Ty-Rap® cable ties

**NOTE:** Flammability ratings of Ty-Rap® cable tie materials are shown in Table 2. These tests for flammability of plastic material are intended to serve as a preliminary indication of acceptability with respect to flammability for particular applications.

#### UL 94 vertical burn test procedures

Test specimens of the material, with dimensions 5" x 1/2", with the thickness intended for use in the end product, are tested in both the manufactured condition and in the aged state. The test requires that the specimen be supported in a vertical fixture and a precisely controlled flame applied for a

10- second period. The flame is removed and the duration of flaming is noted. If the flame extinguishes, a second exposure to flame for 10 seconds is applied and duration of flaming is again noted. It is observed and recorded whether or not test specimens drip flaming particles that ignite a cotton swatch.

**Table 2 — Physical Properties of Ty-Rap® Cable Tie Materials**

|                                                                     | NATURAL<br>6.6 NYLON | WEATHER-<br>RESISTANT<br>6.6 NYLON | EXTRA<br>HIGH<br>TEMP<br>4.6 NYLON | HEAT-<br>STABILIZED<br>U.V. 6.6<br>NYLON | HEAT-<br>STABILIZED<br>NATURAL<br>6.6 NYLON | FLAME-<br>RETARDANT<br>6.6 NYLON | WEATHER-<br>RESISTANT<br>NYLON 12 | WEATHER-<br>RESISTANT<br>POLY-<br>PROPYLENE | FLUORO-<br>POLYMER<br>RADIATION<br>RESISTANCE | LOW-<br>SMOKE<br>DENSITY | STAIN-<br>LESS<br>STEEL | DELTEC®<br>WEATHERABLE<br>ACETAL |
|---------------------------------------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------------|---------------------------------------------|----------------------------------|-----------------------------------|---------------------------------------------|-----------------------------------------------|--------------------------|-------------------------|----------------------------------|
| Tensile Strength (Yield) @ 73° F (Dry-As-Molded) <sup>1</sup> [psi] | 12,000               | 12,000                             | 14,500                             | 11,500                                   | 12,000                                      | 11,000                           | 7,500                             | 4,600                                       | 6,700                                         | 6,600                    | 90,000                  | 10,000                           |
| Flammability Rating                                                 | UL94V-2              | UL94V-2                            | UL94V-2                            | UL94V-2                                  | UL94V-2                                     | UL94V-0                          | —                                 | —                                           | UL94V-0                                       | UL94V-0                  | —                       | UL94HB                           |
| Radiation Resistance [rads]                                         | 1 x 10 <sup>5</sup>  | 1 x 10 <sup>5</sup>                | 1 x 10 <sup>5</sup>                | 1 x 10 <sup>5</sup>                      | 1 x 10 <sup>5</sup>                         | 1 x 10 <sup>5</sup>              | 1 x 10 <sup>5</sup>               | 1 x 10 <sup>5</sup>                         | 2 x 10 <sup>8</sup>                           | 2 x 10 <sup>6</sup>      | 2 x 10 <sup>8</sup>     | 1 x 10 <sup>6</sup>              |
| Ultraviolet Light Resistance                                        | Poor                 | Good                               | Poor                               | Good                                     | Poor                                        | Poor                             | Good                              | Good                                        | Excellent                                     | Excellent                | Excellent               | Very Good                        |
| Water Absorption ( 24 hrs.) [%]                                     | 1.3                  | 1.2                                | 2.3                                | .25                                      | 1.4                                         | 1.4                              | 0.25                              | 0.1                                         | <.01                                          | <0.1                     | None                    | 0.25                             |
| Oxygen Index                                                        | 28                   | 28                                 | 27                                 | 26                                       | 31                                          | 34                               | —                                 | —                                           | 30                                            | 52                       | —                       | 21                               |
| Max. Continuous Use Temperature [F°/C°]                             | 185/85               | 185/85                             | 302/150                            | 221/105                                  | 221/105                                     | 185/85                           | 176/80                            | 194/90                                      | 302/150                                       | 284/140                  | 1000 / 537              | 194/90                           |
| Min. Continuous Use Temperature [F°/C°]88                           | -40/-40              | -40/-40                            | -40/-40                            | -40/-40                                  | -40/-40                                     | -40/-40                          | -40/-40                           | -65/-65                                     | -50/-46                                       | -50/-46                  | -112 /-80               | -85/-65                          |
| Color                                                               | Natural              | Black                              | Light Green                        | Black                                    | Green Tint                                  | White                            | Black                             | Black                                       | Aqua                                          | Maroon                   | Stainless               | Black                            |

<sup>1</sup> ASTM D638-878 except stainless steel, which is ASTM E8



## Material Selection Ordering Guide

### Materials classed UL 94V-0:

A material classed V-0 shall:

- A. Not have any specimens that burn with flaming combustion for more than 10 seconds after either application of the test flame.
- B. Not have a total flaming combustion time exceeding 50 seconds for the 10 flame applications for each set of five specimens.

C. Not have any specimens that burn with flaming or glowing combustion up to the holding fixture.

D. Not have any specimens that drip flaming particles that ignite the dry absorbent surgical cotton located 12" below the test specimen.

E. Not have any specimens with glowing combustion that persists for more than 30 seconds after the second removal of the test flame.

### Materials classed UL94V-1:

A material classed V-1 shall:

- A. Not have any specimens that burn with flaming combustion for more than 30 seconds after either application of the test flame.
- B. Not have a total flaming combustion time exceeding 250 seconds for the 10 flame applications for each set of five specimens.

## Chemical Resistance

Table 3 shows the resistance of Ty-Rap® cable tie materials to various chemicals. The table is designed to help you determine the cable tie material best suited for a particular chemical environment.

**Table 3 — Resistance of Available Materials to Various Chemicals Temp 70° F**

| REAGENTS              | CONCENTRATION | HEAT-STABILIZED<br>6.6 NYLON<br>AS USED IN<br>TY SERIES | FLUOROPOLYMER<br>LOW-SMOKE<br>HALAR<br>AS USED IN<br>TYV SERIES | DELTEC®<br>WEATHERABLE<br>ACETAL<br>AS USED IN<br>TYD SERIES | STANDARD<br>6.6 NYLON<br>AS USED IN<br>TY SERIES | 6.6 WEATHER-<br>RESISTANT<br>NYLON<br>AS USED IN<br>TY X SERIES | 6.6 FIRE-<br>RETARDANT<br>NYLON<br>AS USED IN<br>TY FR SERIES | WEATHER-<br>RESISTANT<br>NYLON 12<br>AS USED IN<br>TYC X SERIES | POLY-<br>PROPYLENE<br>AS USED IN<br>TYP SERIES | WEATHER-<br>RESISTANT<br>POLY-<br>PROPYLENE<br>AS USED IN<br>TYP X SERIES | FLUOROPOLYMER<br>RADIATION-<br>RESISTANT<br>AS USED IN<br>TYZ SERIES | STAINLESS<br>STEEL<br>AS USED IN<br>TYS SERIES |
|-----------------------|---------------|---------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------|
| Arsenic Acid          | 40%           | —                                                       | —                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | —                                                                    | E                                              |
| Acetaldehyde          | 50%           | S                                                       | —                                                               | —                                                            | S                                                | S                                                               | S                                                             | —                                                               | —                                              | —                                                                         | —                                                                    | —                                              |
| Acetone               | 100%          | E                                                       | E                                                               | F                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Aluminum Hydroxide    | AQ            | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ammonia               | All           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ammonium Carbonate    | 5%            | S                                                       | E                                                               | —                                                            | S                                                | S                                                               | S                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ammonium Hydroxide    | 10%           | E                                                       | E                                                               | F                                                            | E                                                | E                                                               | E                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ammonium Nitrate      | —             | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ammonium Sulfate      | 10%           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | S                                                               | S                                              | S                                                                         | S                                                                    | S                                              |
| Barium Carbonate      | All           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Barium Chloride       | 5%            | NR                                                      | —                                                               | —                                                            | NR                                               | NR                                                              | NR                                                            | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Barium Sulfate        | 10%           | E                                                       | —                                                               | —                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Barium Sulfide        | 10%           | S                                                       | —                                                               | —                                                            | S                                                | S                                                               | S                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Benzene               | 100%          | E                                                       | E                                                               | F                                                            | E                                                | E                                                               | E                                                             | E                                                               | S                                              | S                                                                         | E                                                                    | E                                              |
| Benzoic Acid          | 100%          | NR                                                      | E                                                               | —                                                            | NR                                               | NR                                                              | NR                                                            | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Butyric Acid          | 50%           | NR                                                      | E                                                               | —                                                            | NR                                               | NR                                                              | NR                                                            | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Calcium Carbonate     | AQ            | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Calcium Hydroxide     | 20%           | —                                                       | F                                                               | E                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Calcium Hydrochlorite | 2             | NR                                                      | —                                                               | —                                                            | NR                                               | NR                                                              | NR                                                            | —                                                               | F                                              | F                                                                         | F                                                                    | F                                              |
| Calcium Sulfate       | 2%            | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Carbon Tetrachloride  | 100%          | E                                                       | E                                                               | E                                                            | E                                                | E                                                               | E                                                             | E                                                               | F                                              | F                                                                         | E                                                                    | E                                              |
| Chlorine (WET)        | —             | NR                                                      | —                                                               | —                                                            | NR                                               | NR                                                              | NR                                                            | —                                                               | F                                              | F                                                                         | F                                                                    | F                                              |
| Chlorine (DRY)        | —             | NR                                                      | —                                                               | —                                                            | NR                                               | NR                                                              | NR                                                            | —                                                               | NR                                             | NR                                                                        | F                                                                    | F                                              |
| Chloroacetic Acid     | 30%           | NR                                                      | —                                                               | —                                                            | NR                                               | NR                                                              | NR                                                            | —                                                               | —                                              | —                                                                         | F                                                                    | F                                              |
| Chloroform            | 100%          | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | F                                                               | F                                              | F                                                                         | E                                                                    | E                                              |
| Chromic Acid          | 50%           | NR                                                      | S                                                               | —                                                            | NR                                               | NR                                                              | NR                                                            | —                                                               | F                                              | F                                                                         | F                                                                    | F                                              |
| Citric Acid           | 50%           | S                                                       | E                                                               | E                                                            | S                                                | S                                                               | S                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Copper Cyanide        | 10%           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Copper Nitrate        | 50%           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Cider                 | —             | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Dichloroethane        | 100%          | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | —                                              | —                                                                         | E                                                                    | E                                              |
| Diethyl Ether         | 100%          | —                                                       | E                                                               | S                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ethyl Alcohol         | 100%          | S                                                       | E                                                               | —                                                            | S                                                | S                                                               | S                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ethyl Chloride        | 100%          | —                                                       | S                                                               | E                                                            | —                                                | —                                                               | —                                                             | F                                                               | F                                              | F                                                                         | E                                                                    | E                                              |
| Ethylene Glycol       | 100%          | E                                                       | E                                                               | S                                                            | E                                                | E                                                               | E                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ferric Hydroxide      | All           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ferric Nitrate        | 10%           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Ferrous Sulfate       | 10%           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Fuel Oil              | 100%          | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | —                                              | —                                                                         | E                                                                    | E                                              |
| Furfural              | 100%          | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | F                                              | F                                                                         | E                                                                    | E                                              |
| Gallic Acid           | AQ            | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | —                                              | —                                                                         | E                                                                    | E                                              |
| Gasoline              | 100%          | E                                                       | E                                                               | —                                                            | E                                                | E                                                               | E                                                             | —                                                               | S                                              | S                                                                         | E                                                                    | E                                              |
| Glycerine             | 100%          | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | —                                                                    | E                                              |
| Hydrocyanic Acid      | All           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Hydrogen Peroxide     | 30%           | NR                                                      | E                                                               | F                                                            | NR                                               | NR                                                              | NR                                                            | S                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Hydrogen Sulfide      | Dry           | NR                                                      | E                                                               | —                                                            | NR                                               | NR                                                              | NR                                                            | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Iodoform              | 100%          | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | —                                              | —                                                                         | E                                                                    | E                                              |
| Isopropyl Alcohol     | 100%          | S                                                       | E                                                               | —                                                            | S                                                | S                                                               | S                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Jet Fuel              | 100%          | E                                                       | E                                                               | —                                                            | E                                                | E                                                               | E                                                             | —                                                               | S                                              | S                                                                         | E                                                                    | E                                              |
| Lactic Acid           | 10%           | E                                                       | E                                                               | —                                                            | E                                                | E                                                               | E                                                             | S                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Lanolin               | 10%           | E                                                       | E                                                               | —                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Lead Acetate          | 5%            | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Linseed Oil           | 10%           | E                                                       | E                                                               | E                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Magnesium Carbonate   | All           | —                                                       | E                                                               | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Magnesium Chloride    | 10%           | F                                                       | —                                                               | —                                                            | F                                                | F                                                               | F                                                             | F                                                               | F                                              | F                                                                         | F                                                                    | F                                              |

## Material Selection Ordering Guide

- C. Not have any specimens that burn with flaming or glowing combustion up to the holding fixture.
- D. Not have any specimens that drip flaming particles that ignite the dry absorbent surgical cotton located 12" below the test specimen.
- E. Not have any specimens with glowing combustion that persists for more than 60 seconds after the second removal of the test flame.

### Materials classed UL94V-2:

A material classed V-2 shall:

- A. Not have any specimens that burn with flaming combustion for more than 30 seconds after either application of the test flame.
- B. Not have a total flaming combustion time exceeding 250 seconds for the 10 flame applications for each set of five specimens.

- C. Not have any specimens that burn with flaming or glowing combustion up to the holding fixture.
- D. Be permitted to have specimens that drip flaming particles that burn only briefly, some of which ignite the dry absorbent surgical cotton placed 12" below the test specimen.
- E. Not have any specimens with glowing combustion that persists for more than 60 seconds after the second removal of the test flame.

Table 3 (continued)

| REAGENTS               | CONCENTRATION | HEAT-STABILIZED<br>6.6 NYLON<br>AS USED IN<br>TYH SERIES | LOW-SMOKE<br>FLUOROPOLYMER<br>AS USED IN<br>TYV SERIES | DELTEC®<br>WEATHERABLE<br>ACETAL<br>AS USED IN<br>TYD SERIES | STANDARD<br>6.6 NYLON<br>AS USED IN<br>TY SERIES | 6.6 WEATHER-<br>RESISTANT<br>NYLON<br>AS USED IN<br>TY X SERIES | 6.6 FIRE-<br>RETARDANT<br>NYLON<br>AS USED IN<br>TY FR SERIES | WEATHER-<br>RESISTANT<br>NYLON 12<br>AS USED IN<br>TYC X SERIES | POLY-<br>PROPYLENE<br>AS USED IN<br>TYP SERIES | WEATHER-<br>RESISTANT<br>POLY-<br>PROPYLENE<br>AS USED IN<br>TYP X SERIES | RADIATION-<br>RESISTANT<br>FLUOROPOLYMER<br>AS USED IN<br>TYZ SERIES | STAINLESS<br>STEEL<br>AS USED IN<br>TYS SERIES |
|------------------------|---------------|----------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------|
| Magnesium Nitrate      | All           | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Malic Acid             | AQ            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Mercury                | 100%          | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Methyl Alcohol         | 100%          | S                                                        | E                                                      | —                                                            | S                                                | S                                                               | S                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Methyl Chloride        | 100%          | —                                                        | S                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | S                                              | S                                                                         | E                                                                    | E                                              |
| Methyl Ethyl Ketone    | 100%          | —                                                        | E                                                      | F                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Naphtha                | 100%          | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Nitric Acid            | 30%           | NR                                                       | E                                                      | NR                                                           | NR                                               | NR                                                              | NR                                                            | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Nitric Acid            | 30—70%        | NR                                                       | S                                                      | NR                                                           | NR                                               | NR                                                              | NR                                                            | —                                                               | F                                              | F                                                                         | S                                                                    | E                                              |
| Nitrous Acid           | 5%            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | F                                              | F                                                                         | E                                                                    | E                                              |
| Oleic Acid             | 100%          | —                                                        | E                                                      | S                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Oxalic Acid            | 10%           | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | S                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Paraffin               | 100%          | E                                                        | E                                                      | —                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Petroleum Ether        | 100%          | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | F                                              | F                                                                         | E                                                                    | E                                              |
| Phenol                 | 90%           | NR                                                       | E                                                      | NR                                                           | NR                                               | NR                                                              | NR                                                            | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Phosphoric Acid        | 10%           | NR                                                       | E                                                      | —                                                            | NR                                               | NR                                                              | NR                                                            | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Picric Acid            | 1%            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Bromide      | AQ            | —                                                        | —                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | S                                              | S                                                                         | S                                                                    | S                                              |
| Potassium Carbonate 1% | —             | E                                                        | —                                                      | —                                                            | —                                                | —                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Chlorate     | AQ            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | S                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Dichromate   | 40%           | NR                                                       | E                                                      | —                                                            | NR                                               | NR                                                              | NR                                                            | F                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Ferrocyanide | 25%           | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Hydroxide    | 5%            | S                                                        | E                                                      | —                                                            | S                                                | S                                                               | S                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Iodide       | All           | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Nitrate      | 50%           | F                                                        | E                                                      | —                                                            | F                                                | F                                                               | F                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Permanganate | 5%            | NR                                                       | E                                                      | S                                                            | NR                                               | NR                                                              | NR                                                            | NR                                                              | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Sulfate      | 5%            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Potassium Sulfide      | AQ            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Propyl Alcohol         | 100%          | E                                                        | E                                                      | —                                                            | E                                                | E                                                               | E                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Silver Nitrate         | 10%           | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Acetate         | 60%           | E                                                        | E                                                      | —                                                            | E                                                | E                                                               | E                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Bicarbonate     | All           | E                                                        | E                                                      | —                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Bisulfate       | 10%           | —                                                        | E                                                      | E                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Borate          | All           | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Carbonate       | 5%            | E                                                        | E                                                      | S                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Chlorate        | 25%           | —                                                        | E                                                      | E                                                            | —                                                | —                                                               | —                                                             | S                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Chloride        | 2%            | E                                                        | E                                                      | S                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Fluoride        | 5%            | —                                                        | —                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | F                                              | F                                                                         | F                                                                    | F                                              |
| Sodium Hydroxide       | 10%           | E                                                        | E                                                      | S                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Hyposulfite     | AQ            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | —                                              | —                                                                         | E                                                                    | E                                              |
| Sodium Nitrate         | 5%            | E                                                        | E                                                      | —                                                            | E                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Nitrite         | AQ            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | S                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Perchlorate     | 10%           | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | —                                              | —                                                                         | E                                                                    | E                                              |
| Sodium Phosphate       | 5%            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Sulfate         | 5%            | S                                                        | E                                                      | —                                                            | S                                                | E                                                               | E                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sodium Thiosulfate     | 5%            | —                                                        | —                                                      | S                                                            | —                                                | —                                                               | —                                                             | S                                                               | S                                              | S                                                                         | S                                                                    | S                                              |
| Stearic Acid           | 100%          | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | F                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sulfur                 | 100%          | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sulfur Dioxide         | All           | NR                                                       | E                                                      | —                                                            | NR                                               | NR                                                              | NR                                                            | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Sulfuric Acid          | Conc.         | NR                                                       | E                                                      | NR                                                           | NR                                               | NR                                                              | NR                                                            | —                                                               | S                                              | S                                                                         | E                                                                    | E                                              |
| Sulfuric Acid          | 5%            | NR                                                       | F                                                      | F                                                            | NR                                               | NR                                                              | NR                                                            | F                                                               | F                                              | F                                                                         | F                                                                    | F                                              |
| Tannic Acid            | 10%           | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | —                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Tartaric Acid          | 50%           | —                                                        | E                                                      | E                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Tetrahydrofuran        | 100%          | —                                                        | F                                                      | E                                                            | —                                                | —                                                               | —                                                             | S                                                               | F                                              | F                                                                         | E                                                                    | E                                              |
| Toluene                | 100%          | E                                                        | E                                                      | F                                                            | E                                                | E                                                               | E                                                             | E                                                               | F                                              | F                                                                         | E                                                                    | F                                              |
| Xylene                 | 100%          | E                                                        | —                                                      | —                                                            | E                                                | E                                                               | E                                                             | E                                                               | F                                              | F                                                                         | E                                                                    | E                                              |
| Zinc Chloride          | 70%           | F                                                        | E                                                      | NR                                                           | F                                                | F                                                               | F                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Zinc Nitrate           | AQ            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |
| Zinc Sulfate           | AQ            | —                                                        | E                                                      | —                                                            | —                                                | —                                                               | —                                                             | E                                                               | E                                              | E                                                                         | E                                                                    | E                                              |

Ratings: E=Excellent S=Satisfactory F=Fair NR=Not Recommended (AQ=Aqueous)

## Cable Ties for Special Environments

### Ty-Rap® Detectable Cable Ties



Detectable using metal detection and X-ray detection systems and visions systems.

Polypropylene parts are also bouyant in liquid application.

**Material** — Polyamide (Nylon 6.6) or Polypropylene  
For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

**Color** — Blue

| STD. PKG. CAT. NO. | TIE LENGTH IN./MM. | BODY WIDTH IN./MM. | MAX. WIRE BUNDLE IN./MM. | TENSILE STRENGTH LBS./N. | BASE MATERIAL | STD. PKG. QTY. |
|--------------------|--------------------|--------------------|--------------------------|--------------------------|---------------|----------------|
| TY523M-NDT         | 3.62/91.90         | .09/2.36           | .63/15.90                | 18/80                    | Nylon         | 100            |
| TY525M-NDT         | 7.31/186.00        | .19/4.70           | 1.75/44.40               | 50/220                   | Nylon         | 100            |
| TY527M-NDT         | 13.40/340.00       | .27/6.86           | 3.50/89.00               | 120/540                  | Nylon         | 50             |
| TY528M-NDT         | 14.20/361.00       | .19/4.70           | 4.00/102.00              | 50/220                   | Nylon         | 100            |
| TY523M-PDT         | 3.62/91.90         | .09/2.36           | .63/15.90                | 18/80                    | Polypropylene | 100            |
| TY525M-PDT         | 7.31/186.00        | .19/4.70           | 1.75/44.40               | 30/135                   | Polypropylene | 100            |
| TY527M-PDT         | 13.40/340.00       | .27/6.86           | 3.50/89.00               | 60/267                   | Polypropylene | 50             |
| TY528M-PDT         | 14.20/361.00       | .19/4.75           | 4.00/102.00              | 30/135                   | Polypropylene | 100            |

### Make safety a priority!

#### Ty-Rap® Cable Ties — Flame Retardant Nylon 6.6



This material meets UL 94V-0 flammability rating.

**Color** — White

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

| BULK CAT. NO. | BODY WIDTH IN./MM. | LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | MARKING PAD SIZE IN./MM. W X H | TENSILE STRENGTH LBS./N. | BULK PKG. QTY. |
|---------------|--------------------|----------------|-------------------------------|--------------------------------|--------------------------|----------------|
| TY23MFR       | .09/2.29           | 3.62/91.95     | .63/16.00                     | N/A                            | 18/80.07                 | 1,000          |
| TY232MFR      | .09/2.29           | 8.00/203.20    | 2.00/50.80                    | N/A                            | 18/80.07                 | 1,000          |
| TY24MFR       | .14/3.56           | 5.50/139.70    | 1.13/28.70                    | N/A                            | 40/177.90                | 1,000          |
| TY25MFR       | .18/4.57           | 7.31/185.67    | 1.75/44.45                    | N/A                            | 50/222.40                | 1,000          |
| TY28MFR       | .18/4.57           | 14.20/360.68   | 4.00/101.60                   | N/A                            | 50/222.40                | 1,000          |
| TY272MFR†     | .27/6.86           | 8.00/203.20    | 2.00/50.80                    | N/A                            | 120/533.80               | 500            |
| TY27MFR       | .27/6.86           | 13.20/335.28   | 3.50/88.90                    | N/A                            | 120/533.80               | 500            |
| TY53MFR       | .09/2.29           | 4.00/101.60    | .63/16.00                     | .81 x .36/20.57 x 9.1          | 18/80.07                 | 500            |
| TY153MFR      | .10/2.54           | 4.35/110.49    | .63/16.00                     | .78 x 1/19.81 x 14.00          | 18/80.07                 | 500            |

† Not Recognized Model.

### Ty-Rap® Nylon 12 Cable Ties



This material provides very good resistance to ultraviolet light and chemical exposure. Nylon 12 is a lower, moisture- absorbing material than 6.6 nylon and the effect of water on properties is much less.

**Color** — Black

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### Ultraviolet and weather resistant!

| STD. CAT. NO. | BULK CAT. NO. | BODY WIDTH IN./MM. | LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. | BULK PKG. QTY. |
|---------------|---------------|--------------------|----------------|-------------------------------|--------------------------|----------------|----------------|
| TYC525MX      | TYC25MX       | .18/4.57           | 7.31/185.67    | 1.75/44.45                    | 35/155.70                | 100            | 1,000          |
| —             | TYC28MX       | .18/4.57           | 14.20/360.68   | 4.00/101.60                   | 35/155.70                | —              | 1,000          |
| —             | TYC272MX      | .27/6.86           | 8.00/203.20    | 2.00/50.80                    | 85/378.10                | —              | 500            |
| TYC527MX      | TYC27MX       | .27/6.86           | 13.20/335.28   | 3.50/88.90                    | 85/378.10                | 50             | 500            |
| —             | TYC29MX       | .30/7.62           | 30.00/762.00   | 9.00/228.60                   | 85/378.10                | —              | 500            |

### Engineered to withstand high temperatures!

#### Ty-Rap® Heat-Stabilized Ties



For use in temperatures ranging from -40° F to 221° F (-40° C to 105° C).

Material meets ASTM D4066 PA121.

**Color** — Green Tint

| BULK PKG. CAT. NO. | WIDTH IN./MM. | BODY LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | TENSILE STRENGTH LBS./N. | BULK PKG. QTY. |
|--------------------|---------------|---------------------|-------------------------------|--------------------------|----------------|
| TYH23M             | .09/2.29      | 3.62/91.95          | .63/16.00                     | 18/80.07                 | 1,000          |
| TYH232M            | .09/2.29      | 8.00/203.20         | 2.00/50.80                    | 18/80.07                 | 1,000          |
| TYH24M             | .14/3.56      | 5.50/139.70         | 1.13/28.70                    | 40/177.90                | 1,000          |
| TYH242M            | .14/3.56      | 8.19/208.03         | 2.00/50.80                    | 40/177.90                | 1,000          |
| TYH26M             | .14/3.56      | 11.10/281.94        | 3.00/76.20                    | 30/135                   | 1,000          |
| TYH25M             | .18/4.57      | 7.31/185.67         | 1.75/44.45                    | 50/222.40                | 1,000          |
| TYH253M            | .18/4.57      | 11.40/289.56        | 3.00/76.20                    | 50/222.40                | 1,000          |
| TYH28M             | .18/4.57      | 14.20/360.68        | 4.00/101.60                   | 50/222.40                | 1,000          |
| TYH27M             | .27/6.86      | 13.20/335.28        | 3.50/88.90                    | 120/533.80               | 500            |
| TYH272M            | .27/6.86      | 8.75/222.25         | 2.00/50.80                    | 120/533.80               | 500            |
| TYH29M             | .30/7.62      | 30.00/762.00        | 9.00/228.60                   | 120/533.80               | 500            |



## Cable Ties for Special Environments

Perfect for outdoor applications!

### Ty-Rap® Heat Stabilized/ Ultraviolet Resistant Cable Ties



- Ideal for Industrial OEM and MRO (includes, but not limited to industrial, lawn/garden/farming equipment, recreation vehicles, heavy equipment)
- Can be placed in environments requiring heat stabilization and UV resistance
- Provides a smooth, low-profile look and offers unlimited tensioning range for a perfect fit
- Features an oval head on every original Ty-Rap® Cable Tie
- Quicker to install and less expensive than metallic fasteners, lacing cord or tape
- Made of UV resistant, heat-stabilized nylon



Color — Black

For use in temperatures ranging from -40° F to 221° F  
-40° C to 105° C



| BULK PKG.<br>CAT. NO. | LENGTH<br>IN./MM. | TENSILE STRENGTH<br>LBS./N. | BULK<br>PKG. QTY. |
|-----------------------|-------------------|-----------------------------|-------------------|
| TY23MX-A              | 3.62/91.95        | 18/80.07                    | 1,000             |
| TY24MX-A              | 5.50/139.70       | 40/177.90                   | 1,000             |
| TY25MX-A              | 7.31/185.67       | 50/222.40                   | 1,000             |
| TY27MX-A              | 13.40/340.36      | 120/533.80                  | 500               |



Ty-Rap® Cable Fastening Systems

Beat the heat!

### Ty-Rap® Extra High-Temperature Cable Ties



- Ideal for Industrial OEM and MRO (includes, but not limited to metal processing, paper mills, lighting and commercial construction markets with high temperature environments up to 302° F (150° C).
- Provides a smooth, low-profile look and offers unlimited tensioning range for a perfect fit
- Features an oval head on every original Ty-Rap® Cable Tie
- Quicker to install and less expensive than metallic fasteners, lacing cord or tape
- Made of extra high-temperature resistant nylon



| BULK PKG.<br>CAT. NO. | LENGTH<br>IN./MM. | TENSILE STRENGTH<br>LBS./N. | BULK<br>PKG. QTY. |
|-----------------------|-------------------|-----------------------------|-------------------|
| TYHT23M               | 3.62/91.95        | 18/80.07                    | 1,000             |
| TYHT25M               | 7.31/185.67       | 50/222.40                   | 1,000             |
| TYHT27M               | 13.40/340.36      | 120/533.80                  | 500               |
| TYHT28M*              | 14.20/360.68      | 50/222.40                   | 1,000             |

\*UR Pending

Color — Light Green

For use in temperatures ranging from -40° F to 302°  
(-40° to 150° C)



**Ty-Rap®****Cable Ties for Special Environments**

Bundle cable up to 4" in diameter.

**Ty-Rap Weather-Resistant Polypropylene Ties**

- Especially resistant to chemical exposure

**Color** — Black

For use in temperatures ranging from  
-40° F to 185° F (-40° C to 85° C)



| BULK PKG.<br>CAT. NO. | WIDTH<br>IN./MM. | BODY<br>LENGTH<br>IN./MM. | MAX. WIRE<br>BUNDLE DIA.<br>IN./MM. | TENSILE<br>STR.<br>LBS./N. | BULK<br>PKG.<br>QTY. |
|-----------------------|------------------|---------------------------|-------------------------------------|----------------------------|----------------------|
| TYP23MX               | .09/2.29         | 3.62/91.95                | .63/16.00                           | 18/80.07                   | 1,000                |
| TYP25MX               | .18/4.57         | 7.31/185.67               | 1.75/44.45                          | 30/133.40                  | 1,000                |
| TYP28MX               | .18/4.57         | 14.20/360.68              | 4.00/101.60                         | 30/133.40                  | 1,000                |
| TYP27MX               | .27/6.86         | 13.20/335.28              | 3.50/88.90                          | 60266.90                   | 500                  |

Perfect for low smoke-generation applications.

**Ty-Rap Fluoropolymer Cable Ties**

- Made of tough fluoropolymer material
- Use in air-handling spaces
- UL 94V-0 flammability rating
- Low-smoke density

**Color** — Maroon

For use in temperatures ranging from  
-50° F to 284° F (-45° C to 140° C)



| STD.<br>CAT. NO. | BULK<br>CAT. NO. | BODY<br>WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | MAX. WIRE<br>BUNDLE DIA.<br>IN./MM. | TENSILE<br>STRENGTH<br>LBS./N. | STD.<br>PKG.<br>QTY. | BULK<br>PKG.<br>QTY. |
|------------------|------------------|--------------------------|-------------------|-------------------------------------|--------------------------------|----------------------|----------------------|
| TYV523M          | TYV23M           | .09/2.29                 | 3.62/91.95        | .63/16.00                           | 18/80.07                       | 100                  | 1,000                |
| TYV525M          | TYV25M           | .18/4.57                 | 7.31/185.67       | 1.75/44.45                          | 50/222.40                      | 100                  | 1,000                |

Withstand even the *toughest* environments!

**Ty-Rap Fluoropolymer Cable Ties**

- High radiation resistance
- Made of tough fluoropolymer material
- Meets UL flammability rating 94V-0

**Color** — Aqua

For use in temperatures ranging from  
-50° F to 302° F (-45° C to 150° C)



| STD.<br>CAT. NO. | BULK<br>CAT. NO. | BODY<br>WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | MAX. WIRE<br>BUNDLE DIA.<br>IN./MM. | TENSILE<br>STRENGTH<br>LBS./N. | STD.<br>PKG.<br>QTY. | BULK<br>PKG.<br>QTY. |
|------------------|------------------|--------------------------|-------------------|-------------------------------------|--------------------------------|----------------------|----------------------|
| TYZ523M*         | TYZ23M*          | .09/2.29                 | 3.62/91.95        | .63/16.00                           | 18/80.07                       | 100                  | 1,000                |
| TYZ525M          | TYZ25M           | .18/4.57                 | 7.31/185.67       | 1.75/44.45                          | 50/222.40                      | 100                  | 1,000                |
| TYZ528M          | TYZ28M           | .18/4.57                 | 14.19/360.43      | 4.00/101.60                         | 50/222.40                      | 100                  | 1,000                |
| TYZ527M          | TYZ27M           | .27/6.86                 | 13.38/339.85      | 3.50/88.90                          | 120/533.80                     | 50                   | 500                  |

\*UL Listed

**Thomas & Betts**

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Fax: 901.252.1354

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Tel: 888.862.3289

## Stainless Steel Cable Ties and Accessories

**Strong, fire proof and easy to apply — for safe cable bundling.**

### Dual Lock

Thomas & Betts has a complete package of stainless steel cable ties and accessories that are easy to apply and superior in quality. These products have been designed for tying, lashing, and identification applications in demanding environments such as food processing, boiler rooms, chemical plants, refineries, pulp/paper mills, shipyards and offshore oil platforms. They are made of a variety of high-quality stainless steel materials that offer excellent corrosion resistance, high temperature, and durability characteristics. There is also a variety of high-performance installation and identification tools to complete your cable tie accessory needs.

For cable bundling, identification tags and other general bundling applications — especially in hazardous environments — Thomas & Betts Stainless Steel Cable Ties provide a strong, safe, permanent installation with a unique, dual locking mechanism.

The Type 304 stainless steel ties are completely fireproof — no toxic fumes, no sagging cables. They are extremely resistant to corrosion and UV light, with the ability to withstand the harshest temperature extremes. Yet they are surprisingly economical.

These low-profile ties are fast and easy to apply. A quick squeeze of the installation tool forms two strong locks — a dimple lock and a fold lock for maximum holding strength.

Their two-piece configuration adds to its versatility. Available in standard lengths to wrap bundle diameters from 1–10", Thomas & Betts Stainless Steel Cable Ties can be supplied in other lengths on special order.

Low-profile Thomas & Betts Stainless Steel Ties are fireproof and resist corrosion, UV light, and extreme weather conditions for safe, permanent cable bundling, yet they are cost effective for your demanding applications.

### Installation Hand Tool

The installation hand tool is a lightweight, pocket-size hand tool that quickly and easily applies the stainless steel cable ties.

To use, simply separate the pull-up handle from the body, and insert the cable tie tail as far as possible. Squeeze the pull-up handle until the band is tight. Finally, move the pull-up handle to the locking/cut-off position by moving it away from the body as far as it will go. Then squeeze to form the dual lock and cut off the excess tail.

After wrapping the object to be tied, insert the free end of the tie through the buckle and into the tool.

Squeeze the handle of the tool to create the dual lock and cut off the tail. The cable tie forms a low-profile dual lock.

The tail is formed into a fold lock behind the buckle. The tool forces a dimple in the band into a hole in the buckle.



### Catalog Number System

#### CABLE TIE TYPE

- SS** = Two-piece solid stainless steel cable tie, Type 304
- TYS** = Multi-lock stainless steel cable tie, Type 316
- SSR** = Reusable stainless steel cable tie, Type 200/300
- SSH** = Heavy-duty stainless steel clamp, Type 201
- TS** = Roller bar locking stainless steel cable tie, Type 302/304
- LS** = Ball locking stainless steel cable tie, Type 302/304/316

| CAT. NO.        | Bundle Diameter               | Tensile Strength         | Width        | Length        | Weight         |
|-----------------|-------------------------------|--------------------------|--------------|---------------|----------------|
|                 | FOR BUNDLE DIAMETER OF IN./MM | TENSILE STRENGTH LBS./N. | WIDTH IN./MM | LENGTH IN./MM | WEIGHT LBS./N. |
| <b>SS10-250</b> | 2/51                          | 200/890                  | .25/6.35     | 10.0/254      | 1.1/4.89       |
| <b>SS17-250</b> | 4/101                         | 200/890                  | .25/6.35     | 16.5/419      | 1.8/8.00       |



## Stainless Steel Cable Ties and Accessories

Strong, slip-free ties with a unique dual lock.

### Stainless Steel Cable Ties

- Low-profile, single wrap ties
- Dual locking mechanism
- No slipping



| STD. PKG. CAT. NO.                         | FOR BUNDLE DIAMETER OF IN./MM. | TENSILE STRENGTH LBS./N. | WIDTH IN./MM. | LENGTH IN./MM. | WEIGHT LBS./KG. | STD. PKG. QTY. |
|--------------------------------------------|--------------------------------|--------------------------|---------------|----------------|-----------------|----------------|
| <b>Mini Stainless Steel Cable Ties</b>     |                                |                          |               |                |                 |                |
| SS7-180                                    | 1/25                           | 100/444.8                | .18/4.5       | 6.5/165        | .70/32          | 100            |
| SS10-180                                   | 2/51                           | 100/444.8                | .18/4.5       | 10.0/254       | .90/41          | 100            |
| SS16-180                                   | 4/102                          | 100/444.8                | .18/4.5       | 16.0/406       | 1.40/64         | 100            |
| SS23-180                                   | 6/152                          | 100/444.8                | .18/4.5       | 22.5/572       | 1.85/84         | 100            |
| SS29-180                                   | 8/203                          | 100/444.8                | .18/4.5       | 29.0/737       | 2.35/1.07       | 100            |
| <b>Standard Stainless Steel Cable Ties</b> |                                |                          |               |                |                 |                |
| SS10-250                                   | 2/51                           | 250/1,112                | .25/6.35      | 10.0/254       | 1.10/50         | 100            |
| SS17-250                                   | 4/101                          | 250/1,112                | .25/6.35      | 16.5/419       | 1.80/82         | 100            |
| SS23-250                                   | 6/152                          | 250/1,112                | .25/6.35      | 22.5/572       | 2.50/1.13       | 100            |
| SS29-250                                   | 8/203                          | 250/1,112                | .25/6.35      | 29.0/737       | 3.20/1.45       | 100            |
| SS35-250                                   | 10/254                         | 250/1,112                | .25/6.35      | 35.0/ 889      | 3.80/1.72       | 100            |

304 Stainless Steel

.015" (.38mm) Thickness

**NOTE:** Other lengths available on special request.

Add suffix -316 for 316 Stainless Steel.

Perfect for mini-sized stainless steel ties.

### Mini Tie Installation Tool

- Pocket-sized, lightweight
- Applies mini-size stainless steel ties



| STD. PKG. CAT. NO. | DESCRIPTION                                                                                                                                                            | WEIGHT LBS./KG. | STD. PKG. QTY. |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|
| WTA290             | Hand tool to apply mini stainless steel cable ties; easy-to-use tool applies tension, locks tie with the dual lock, and cuts off band flush with top surface of buckle | 1.17/.53        | 1              |

Pocket-sized hand tool for quick and easy cable tie installations.

### Standard Tie Installation Tool

- Lightweight
- Applies standard-size stainless steel ties



| STD. PKG. CAT. NO. | DESCRIPTION                                                                                                                                                                | WEIGHT LBS./KG. | STD. PKG. QTY. |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|
| WTA250             | Hand tool to apply standard stainless steel cable ties; easy-to-use tool applies tension, locks tie with the dual lock, and cuts off band flush with top surface of buckle | 1.17/.53        | 1              |

## Multi-Lok Stainless Steel Self-Locking Cable Ties

Strong — holds in excess of 200 lbs. — and self locking.

### Type 316 Stainless Steel — Uncoated



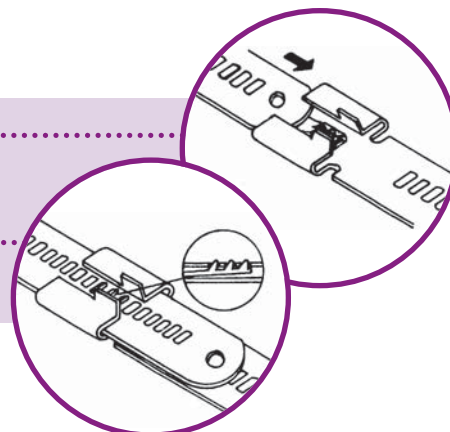
- Corrosion-resistant, providing a safe, strong, worry-free hold
- Unique, self-locking, multiple-locking system holds in excess of 200 lbs.
- Manufactured from Type 316 stainless steel
- Available in two widths and various lengths

| STD. PKG. CAT. NO. | TENSILE STR. LBS./N. | WIDTH IN./MM | LENGTH IN./MM | WEIGHT LBS./KG. | STD. PKG. QTY. |
|--------------------|----------------------|--------------|---------------|-----------------|----------------|
| <b>TYS6-280</b>    | 250/1,112            | .28/7        | 6/150         | .66/.30         | 100            |
| <b>TYS9-280</b>    | 250/1,112            | .28/7        | 9/225         | .99/.45         | 100            |
| <b>TYS12-280</b>   | 250/1,112            | .28/7        | 12/300        | 1.32/.60        | 100            |
| <b>TYS18-280</b>   | 250/1,112            | .28/7        | 18/450        | 1.76/.80        | 100            |
| <b>TYS24-280</b>   | 250/1,112            | .28/7        | 24/610        | 2.64/1.20       | 100            |
| <b>TYS6-470</b>    | 250/1,112            | .47/12       | 6/150         | 1.10/.50        | 100            |
| <b>TYS9-470</b>    | 250/1,112            | .47/12       | 9/225         | 1.65/.75        | 100            |
| <b>TYS12-470</b>   | 250/1,112            | .47/12       | 12/300        | 2.20/1.00       | 100            |
| <b>TYS18-470</b>   | 250/1,112            | .47/12       | 18/450        | 2.97/1.35       | 100            |
| <b>TYS24-470</b>   | 250/1,112            | .47/12       | 24/610        | 4.29/1.95       | 100            |

.010" (.245mm) Thickness

### How It Works:

As the free end of the Multi-Lok tie passes through the buckle, three separate teeth (four teeth in the 12mm Multi-Lok) mesh with corresponding slots in the band, automatically locking the tie as it is being tensioned.



### Type 316 Stainless Steel — Nylon 11 Coated

- Nylon 11 weather-resistant coating is unaffected by UV sunlight, resistant to corrosion, chemicals, weathering and protects cable insulation

- Coated with halogen-free, non-toxic black nylon 11

For use in temperatures ranging from -20° F to 122° F (-29° C to 50° C)



| STD. PKG. CAT. NO. | TENSILE STR. LBS./N. | WIDTH IN./MM | LENGTH IN./MM | WEIGHT LBS./KG. | STD. PKG. QTY. |
|--------------------|----------------------|--------------|---------------|-----------------|----------------|
| <b>TYS6-280C</b>   | 250/1,112            | .28/7        | 6/150         | .66/.30         | 100            |
| <b>TYS9-280C</b>   | 250/1,112            | .28/7        | 9/225         | .99/.45         | 100            |
| <b>TYS12-280C</b>  | 250/1,112            | .28/7        | 12/300        | 1.32/.60        | 100            |
| <b>TYS18-280C</b>  | 250/1,112            | .28/7        | 18/450        | 1.76/.80        | 100            |
| <b>TYS24-280C</b>  | 250/1,112            | .28/7        | 24/610        | 2.64/1.20       | 100            |
| <b>TYS6-470C</b>   | 250/1,112            | .47/12       | 6/150         | 1.10/.50        | 100            |
| <b>TYS9-470C</b>   | 250/1,112            | .47/12       | 9/225         | 1.65/.75        | 100            |
| <b>TYS12-470C</b>  | 250/1,112            | .47/12       | 12/300        | 2.20/1.00       | 100            |
| <b>TYS18-470C</b>  | 250/1,112            | .47/12       | 18/450        | 2.97/1.35       | 100            |
| <b>TYS24-470C</b>  | 250/1,112            | .47/12       | 24/610        | 4.29/1.95       | 100            |

.010" (.245mm) Thickness

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

Technical Services  
Tel: 888.862.3289

**Thomas & Betts**

[www.tnb.com](http://www.tnb.com)

## Reusable Stainless Steel Cable Ties

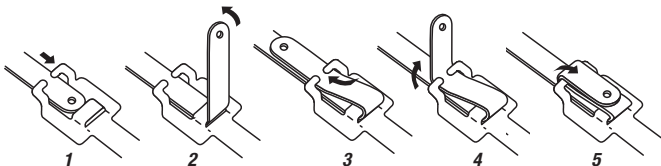
Ties to use and reuse with quickness and ease!

### Reusable Stainless Steel Cable Ties — Coated

- Made of high-strength, corrosion-resistant 200/300 series stainless steel
- Coated with a non-toxic, halogen-free, low-smoke Nylon 11, protecting cables from damage or interference due to direct contact with the stainless steel
- Nylon 11 is also chemical and weather-resistant, UV-protective, extremely flexible at low temperature, user-friendly on installer's hands and easy on bundles
- Unique buckle design for quick, easy application and re-use

1. Insert cable tie tail through holding tabs and locking emboss
2. Bend cable tie tail up
3. Insert cable tie tail back through holding tabs, creating as tight a bend as possible. For increased tensile strength follow steps #4 and #5
4. Bend cable tie tail up
5. Fold cable tie tail over holding tabs

\*Patent Pending



| STD. PKG. CAT. NO. | TENSILE STRENGTH LBS./N. | WIDTH IN./MM | LENGTH IN./MM | WEIGHT LBS./KG. | STD. PKG. QTY. |
|--------------------|--------------------------|--------------|---------------|-----------------|----------------|
| SSR6-250C          | 75/333.60                | .25/6.35     | 6/152         | 1.4/.64         | 100            |
| SSR9-250C          | 75/333.60                | .25/6.35     | 9/229         | 1.8/.82         | 100            |
| SSR12-250C         | 75/333.60                | .25/6.35     | 12/305        | 2.1/.95         | 100            |
| SSR18-250C         | 75/333.60                | .25/6.35     | 18/457        | 3.0/1.36        | 100            |
| SSR24-250C         | 75/333.60                | .25/6.35     | 24/610        | 3.7/1.68        | 100            |
| SSR6-375C          | 100/444.80               | .38/9.53     | 6/152         | 1.8/.82         | 100            |
| SSR9-375C          | 100/444.80               | .38/9.53     | 9/229         | 2.0/.91         | 100            |
| SSR12-375C         | 100/444.80               | .38/9.53     | 12/305        | 3.1/1.41        | 100            |
| SSR18-375C         | 100/444.80               | .38/9.53     | 18/457        | 4.4/2.00        | 100            |
| SSR24-375C         | 100/444.80               | .38/9.53     | 24/610        | 6.6/2.99        | 100            |
| SSR30-375C         | 100/444.80               | .38/9.53     | 30/762        | 7.0/3.18        | 100            |
| SSR36-375C         | 100/444.80               | .38/9.53     | 36/914        | 8.3/3.76        | 100            |

Material: 200/300 Series Stainless Steel

.015" (.38mm) metal thickness; .045" (1.1mm) coated thickness

**NOTE:** This product may be double-wrapped for additional tensile strength.

For additional colors and uncoated ties, consult Thomas & Betts Customer Service for pricing and availability.

For 316 Stainless Steel, add suffix -316 after catalog number. Consult Customer Service for availability.

Quality stainless steel tools for tensioning and installing.

### Tensioning Tools



WTAE200  
Cable Tie Tensioner



WTAE201  
Tensioning Hook



DAS250  
Pistol Grip Tensioning Tool

| STD. PKG. CAT. NO. | DESCRIPTION                                                                                 | WEIGHT LBS./KG. | STD. PKG. QTY. |
|--------------------|---------------------------------------------------------------------------------------------|-----------------|----------------|
| WTAE200            | Cable Tie Tensioner: For tensioning Reusable Ties and Multi-Lok Ties                        | .6/.27          | 1              |
| WTAE201            | Tensioning Hook: For tensioning Reusable Ties and Multi-Lok Ties                            | .1/.05          | 1              |
| DAS250             | Pistol Grip Tensioning Tool: For installing Multi-Lok, Ball Lock, & Roller Bar Lock SS Ties | 1.0/.45         | 1              |



## Stainless Steel Ties — Free-End

Pre-assembled for single or double wrapping!

### Heavy-Duty Free-End Stainless Steel Clamps — Type 201

- Double-wrapped clamps provide **extra** strength
- Available in various lengths, widths, and thicknesses



| STD. PKG. CAT. NO. | MAX. DIA. ONCE AROUND IN./MM | MAX. DIA TWICE AROUND IN./MM | TOTAL LENGTH IN./MM | TENSILE STRENGTH SINGLE WRAP LBS/N. | BAND WIDTH IN./MM | BAND THICKNESS IN./MM | WEIGHT LBS./KG. | STD. PKG. QTY. |
|--------------------|------------------------------|------------------------------|---------------------|-------------------------------------|-------------------|-----------------------|-----------------|----------------|
| SSH10-250          | 2/50                         | —                            | 10/25               | 450/2002                            | .25/6.35          | .02/.51               | 2.2/1.00        | 100            |
| SSH16-250          | 3.5/88                       | 1.5/38                       | 16/40               | 450/2002                            | .25/6.35          | .02/.51               | 3.1/1.41        | 100            |
| SSH16-375          | 3.5/88                       | 1.5/38                       | 16/40               | 900/4003                            | .38/9.53          | .03/.63               | 6.2/2.81        | 100            |
| SSH18-500          | 4/101                        | 2/50                         | 18/45               | 1,400/6228                          | .5/12.70          | .03/.76               | 10.5/4.76       | 100            |
| SSH19-250          | 5/127                        | 2.5/63                       | 19/48               | 450/2002                            | .25/6.35          | .02/.51               | 3.5/1.59        | 100            |
| SSH21-625          | 5/127                        | 2.5/63                       | 21/53               | 1,700/7562                          | .63/15.88         | .03/.76               | 15.1/6.85       | 100            |
| SSH24-750          | 6/152                        | 3/76                         | 24/60               | 2,000/8896                          | .75/19.05         | .03/.76               | 10.9/4.94       | 50             |
| SSH27-250          | 7/177                        | 3.5/88                       | 27/68               | 450/2002                            | .25/6.35          | .02/.51               | 4.6/2.09        | 100            |
| SSH31-500          | 8/203                        | 4/101                        | 31/78               | 1,400/6228                          | .5/12.70          | .03/.76               | 4.7/2.13        | 25             |
| SSH34-250          | 9/228                        | 4.5/114                      | 34/86               | 450/2002                            | .25/6.35          | .02/.51               | 5.6/2.54        | 100            |
| SSH37-750          | 10/254                       | 5/127                        | 37/93               | 2,000/8896                          | .75/19.05         | .03/.76               | 7.6/3.45        | 25             |
| SSH44-375          | 12/304                       | 6/152                        | 44/112              | 900/4003                            | .38/9.53          | .03/.76               | 3.6/1.69        | 25             |
| SSH50-750          | 14/355                       | 7/177                        | 50/127              | 2,000/8896                          | .75/19.05         | .03/.76               | 9.7/4.40        | 25             |
| SSH56-625          | 16/406                       | 8/203                        | 56/142              | 1,700/7562                          | .63/15.88         | .03/.76               | 9.0/4.08        | 25             |
| SSH62-750          | 18/457                       | 9/228                        | 62/157              | 2,000/8896                          | .75/19.05         | .03/.76               | 11.6/5.26       | 25             |
| SSH69-625          | 20/508                       | 10/254                       | 69/175              | 1,700/7562                          | .63/15.88         | .00/.76               | 10.7/4.86       | 25             |

Type 201 Stainless Steel

Other Free-End Clamp sizes and metals are available on special order.

Apply tension, cut and secure with confidence!

### Installation Tools



**WTJ020**

Lightweight pocket-sized tool to install ¼" and ⅝" wide Free-End Clamps. This tool also applies tension and has a built-in cutter.



**WTC075**

Designed to install ¼" to ⅝" wide Free-End Clamps. The lightweight, ratchet-action tool tension cuts and secures the buckle tab.



**WTC001**

A drop-forged tool with tensioning capability to do all ¼" to ⅝" Free-End Clamp sizes.

| STD. PKG. CAT. NO. | DESCRIPTION                                                                         | WEIGHT LBS./KG. | STD. PKG. QTY. |
|--------------------|-------------------------------------------------------------------------------------|-----------------|----------------|
| WTJ020             | Compact Free End Stainless Steel Cable Tie Intallation Tool for ¼" to ⅝" sizes      | 1.1/1.50        | 1              |
| WTC075             | Pistol Grip Free End Stainless Steel Cable Tie Installation Tool for ¼" to ⅝" sizes | 2.6/1.18        | 1              |
| WTC001             | Free End Stainless Steel Cable Tie Installation Tool for all sizes                  | 4.4/2.00        | 1              |



Type SS  
Mini Stainless Steel Cable Ties



Type SS  
Standard Stainless Steel Cable Ties



Type TYS  
Multi-Lok Stainless Steel Ties — Uncoated



Type TYS  
Multi-Lok Stainless Steel Ties — Coated



Type LS  
Heavy-Duty Stainless Steel  
Ball-Lock Cable Ties — Uncoated



Type LS  
Heavy-Duty Stainless Steel  
Ball-Lock Cable Ties — Coated

## Ty-Rap® Stainless Steel Cable Ties

| CAT. NO. | WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | THICKNESS<br>IN./MM. | MAX. DIA.<br>SINGLE WRAP<br>IN./MM. | MAX. DIA.<br>DOUBLE WRAP<br>IN./MM. |
|----------|------------------|-------------------|----------------------|-------------------------------------|-------------------------------------|
|----------|------------------|-------------------|----------------------|-------------------------------------|-------------------------------------|

### Type SS Mini Stainless Steel Cable Ties

|          |          |          |         |         |         |
|----------|----------|----------|---------|---------|---------|
| SS7-180  | .18/4.50 | 6.5/165  | .02/.51 | 1.7/43  | (single |
| SS10-180 | .18/4.50 | 10/254   | .02/.51 | 2.8/71  | wrap    |
| SS16-180 | .18/4.50 | 16/406   | .02/.51 | 4.7/119 | only)   |
| SS23-180 | .18/4.50 | 22.5/572 | .02/.51 | 6/152   |         |
| SS29-180 | .18/4.50 | 29.0/737 | .02/.51 | 8/203   |         |

### Type SS Standard Stainless Steel Cable Ties

|          |          |          |         |          |         |
|----------|----------|----------|---------|----------|---------|
| SS10-250 | .25/6.35 | 10/254   | .02/.51 | 2.1/53   |         |
| SS17-250 | .25/6.35 | 16.5/419 | .02/.51 | 4.3/109  | (single |
| SS23-250 | .25/6.35 | 22.5/572 | .02/.51 | 6.5/165  | wrap    |
| SS29-250 | .25/6.35 | 29/737   | .02/.51 | 8.5/215  | only)   |
| SS35-250 | .25/6.35 | 35/889   | .02/.51 | 10.5/265 |         |

### Type TYS Multi-Lok Stainless Steel Cable Ties

| Uncoated  | Nylon 11 Coated |           |        |         |                |
|-----------|-----------------|-----------|--------|---------|----------------|
| TYS6-280  | TYS6-280C       | .28/7.00  | 6/152  | .01/.25 | 1.9/48 (single |
| TYS9-280  | TYS9-280C       | .28/7.00  | 9/229  | .01/.25 | 2.8/71 wrap    |
| TYS12-280 | TYS12-280C      | .28/7.00  | 12/305 | .01/.25 | 3.8/96 only)   |
| TYS18-280 | TYS18-280C      | .28/7.00  | 18/457 | .01/.25 | 5.7/144        |
| TYS24-280 | TYS24-280C      | .28/7.00  | 24/610 | .01/.25 | 7.6/193        |
| TYS6-470  | TYS6-470C       | .47/12.00 | 6/152  | .01/.25 | 1.9/48         |
| TYS9-470  | TYS9-470C       | .47/12.00 | 9/229  | .01/.25 | 2.8/71         |
| TYS12-470 | TYS12-470C      | .47/12.00 | 12/305 | .01/.25 | 3.8/96         |
| TYS18-470 | TYS18-470C      | .47/12.00 | 18/457 | .01/.25 | 5.7/144        |
| TYS24-470 | TYS24-470C      | .47/12.00 | 24/610 | .01/.25 | 7.6/193        |

### Type LS Heavy-Duty Stainless Steel Ball-Lock Cable Ties

| Uncoated     |         |           |   |          |         |
|--------------|---------|-----------|---|----------|---------|
| LS-4.6-200A  | .18/4.6 | 7.9/201   | — | 2/51     | (single |
| LS-4.6-360A  | .18/4.6 | 14.2/360  | — | 4/102    | wrap    |
| LS-4.6-520A  | .18/4.6 | 20.5/520  | — | 6/152    | only)   |
| LS-4.6-680A  | .18/4.6 | 26.7/679  | — | 8/203    |         |
| LS-4.6-840A  | .18/4.6 | 33.0/838  | — | 10/254   |         |
| LS-7.9-200A  | .31/7.9 | 7.9/201   | — | 2/51     | (single |
| LS-7.9-360A  | .31/7.9 | 14.2/360  | — | 4/102    | wrap    |
| LS-7.9-520A  | .31/7.9 | 20.5/520  | — | 6/152    | only)   |
| LS-7.9-680A  | .31/7.9 | 26.7/679  | — | 8/203    |         |
| LS-7.9-840A  | .31/7.9 | 33.0/838  | — | 10/254   |         |
| LS-7.9-1010A | .31/7.9 | 41.3/1050 | — | 12.5/318 |         |

### Fully Polyester Coated

| Uncoated     |              |         |           |   |              |
|--------------|--------------|---------|-----------|---|--------------|
| LS-4.6-200B  | LS-4.6-200-C | .18/4.6 | 7.9/201   | — | 2/51 (single |
| LS-4.6-360B  | LS-4.6-360-C | .18/4.6 | 14.2/360  | — | 4/102 wrap   |
| LS-4.6-520B  | LS-4.6-520-C | .18/4.6 | 20.5/520  | — | 6/152 only)  |
| LS-4.6-680B  | LS-4.6-680-C | .18/4.6 | 26.7/679  | — | 8/203        |
| LS-4.6-840B  | —            | .18/4.6 | 33.0/838  | — | 10/254       |
| LS-7.9-200B  | LS-7.9-200-C | .31/7.9 | 7.9/201   | — | 2/51 (single |
| LS-7.9-360B  | LS-7.9-360-C | .31/7.9 | 14.2/360  | — | 4/102 wrap   |
| LS-7.9-520B  | LS-7.9-520-C | .31/7.9 | 20.5/520  | — | 6/152 only)  |
| LS-7.9-680B  | LS-7.9-680-C | .31/7.9 | 26.7/679  | — | 8/203        |
| LS-7.9-840B  | —            | .31/7.9 | 33.0/838  | — | 10/254       |
| LS-7.9-1010B | —            | .31/7.9 | 41.3/1050 | — | 12.5/318     |

## Stainless Steel Ties — Specifications

| STAINLESS STEEL TYPE | COATING OR FINISH                        | MIN. LOOP TENSILE STRENGTH SINGLE WRAP LBS./N. | MIN. LOOP TENSILE STRENGTH DOUBLE WRAP LBS./N. | APPLICATION TOOLS USED | GENERAL APPLICATION                                                                                                               |
|----------------------|------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 304*                 | Dull to Bright                           | 100/445                                        | (single wrap only)                             | WTA290                 | <ul style="list-style-type: none"> <li>• Wire/cable bundling</li> <li>• I.D. tagging</li> </ul>                                   |
| 304*                 |                                          | 100/445                                        |                                                | WTA290                 |                                                                                                                                   |
| 304*                 |                                          | 100/445                                        |                                                | WTA290                 |                                                                                                                                   |
| 304*                 |                                          | 100/445                                        |                                                | WTA290                 |                                                                                                                                   |
| 304*                 |                                          | 100/445                                        |                                                | WTA290                 |                                                                                                                                   |
| 304*                 | Dull to Bright                           | 200/890                                        | (single wrap only)                             | WTA250                 | <ul style="list-style-type: none"> <li>• Wire/cable bundling</li> <li>• I.D. tagging</li> </ul>                                   |
| 304*                 |                                          | 200/890                                        |                                                | WTA250                 |                                                                                                                                   |
| 304*                 |                                          | 200/890                                        |                                                | WTA250                 |                                                                                                                                   |
| 304*                 |                                          | 200/890                                        |                                                | WTA250                 |                                                                                                                                   |
| 304*                 |                                          | 200/890                                        |                                                | WTA250                 |                                                                                                                                   |
| 316                  | Uncoated or Nylon 11 Coated Black        | 250/1,112                                      | (single wrap only)                             | WTAE200                | <ul style="list-style-type: none"> <li>• Self-locking</li> <li>• Cable bundling</li> </ul>                                        |
| 316                  |                                          | 250/1,112                                      |                                                | WTAE200                |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | WTAE200                |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | WTAE200                |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | WTAE201                |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | WTC075                 | <ul style="list-style-type: none"> <li>• Hazardous and corrosive environments</li> </ul>                                          |
| 316                  |                                          | 250/1,112                                      |                                                | WTC075                 |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | WTC075                 |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | WTC075                 |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | WTC075                 |                                                                                                                                   |
| 302/304              | Dull                                     | 100/445                                        | (single wrap only)                             | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 100/445                                        |                                                | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 100/445                                        |                                                | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 100/445                                        |                                                | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 100/445                                        |                                                | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |
| 302/304              |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |
| 316                  | Uncoated or Fully Polyester Coated Black | 100/445                                        | (single wrap only)                             | DAS250                 | <ul style="list-style-type: none"> <li>• Offshore drilling</li> <li>• Petrochemical processing</li> <li>• Shipbuilding</li> </ul> |
| 316                  |                                          | 100/445                                        |                                                | DAS250                 |                                                                                                                                   |
| 316                  |                                          | 100/445                                        |                                                | DAS250                 |                                                                                                                                   |
| 316                  |                                          | 100/445                                        |                                                | DAS250                 |                                                                                                                                   |
| 316                  |                                          | 100/445                                        |                                                | DAS250                 |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | DAS250                 | <ul style="list-style-type: none"> <li>• Food &amp; Beverage processing</li> <li>• Pharmaceutical processing</li> </ul>           |
| 316                  |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |
| 316                  |                                          | 250/1,112                                      |                                                | DAS250                 |                                                                                                                                   |

\* SS series also available in Type 316 stainless.



### Ty-Rap® Stainless Steel Cable Ties (continued)



Type TS  
Stainless Steel Self-Locking Cable Ties



Type SSR  
Reusable Stainless Steel Cable Ties



Type SSH  
Free-End Clamps

| CAT. NO.                                               | WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | THICKNESS<br>IN./MM. | MAX. DIA.<br>SINGLE WRAP<br>IN./MM. | MAX. DIA.<br>DOUBLE WRAP<br>IN./MM. |
|--------------------------------------------------------|------------------|-------------------|----------------------|-------------------------------------|-------------------------------------|
| <b>Type TS Stainless Steel Self-Locking Cable Ties</b> |                  |                   |                      |                                     |                                     |
| TS-4.6-200A                                            | .18/4.6          | 8.8/222.9         | —                    | 2/50.8                              | (single                             |
| TS-4.6-360A                                            | .18/4.6          | 15.3/388.0        | —                    | 4/101.6                             | wrap                                |
| TS-4.6-520A                                            | .18/4.6          | 21.3/540.4        | —                    | 6/152.4                             | only)                               |
| TS-4.6-680A                                            | .18/4.6          | 27.8/705.5        | —                    | 8/203.2                             |                                     |
| TS-4.6-840A                                            | .18/4.6          | 33.8/857.9        | —                    | 10/254.0                            |                                     |
| TS-4.6-200B                                            | .18/4.6          | 8.8/222.9         | —                    | 2/50.8                              |                                     |
| TS-4.6-360B                                            | .18/4.6          | 15.3/388.0        | —                    | 4/101.6                             |                                     |
| TS-4.6-520B                                            | .18/4.6          | 21.3/540.4        | —                    | 6/152.4                             |                                     |
| TS-4.6-680B                                            | .18/4.6          | 27.8/705.5        | —                    | 8/203.2                             |                                     |
| TS-4.6-840B                                            | .18/4.6          | 33.8/857.9        | —                    | 10/254.0                            |                                     |
| <b>Type SSR Reusable Stainless Steel Cable Ties</b>    |                  |                   |                      |                                     |                                     |
| SSR6-250C                                              | .25/6.35         | 6/152             | .02/.51              | 1.5/38                              | N/A                                 |
| SSR9-250C                                              | .25/6.35         | 9/229             | .02/.51              | 2.5/63                              | 1.1/28                              |
| SSR12-250C                                             | .25/6.35         | 12/305            | .02/.51              | 3.4/86                              | 1.5/38                              |
| SSR18-250C                                             | .25/6.35         | 18/457            | .02/.51              | 5.4/137                             | 2.5/64                              |
| SSR24-250C                                             | .25/6.35         | 24/610            | .02/.51              | 7.3/185                             | 3.5/89                              |
| SSR6-375C                                              | .38/9.53         | 6/152             | .02/.51              | 1.5/38                              | N/A                                 |
| SSR9-375C                                              | .38/9.53         | 9/229             | .02/.51              | 2.5/63                              | 1.1/28                              |
| SSR12-375C                                             | .38/9.53         | 12/305            | .02/.51              | 3.4/86                              | 1.5/38                              |
| SSR18-375C                                             | .38/9.53         | 18/457            | .02/.51              | 5.4/137                             | 2.5/64                              |
| SSR24-375C                                             | .38/9.53         | 24/610            | .02/.51              | 7.3/185                             | 3.5/89                              |
| SSR30-375C                                             | .38/9.53         | 30/762            | .02/.51              | 9.1/231                             | 4.4/112                             |
| SSR36-375C                                             | .38/9.53         | 36/914            | .02/.51              | 11.0/280                            | 5.3/135                             |
| <b>Type SSH Free-End Clamps</b>                        |                  |                   |                      |                                     |                                     |
| SSH10-250                                              | .25/6.35         | 10/250            | .02/.51              | 2.0/50                              | —                                   |
| SSH16-250                                              | .25/6.35         | 16/400            | .02/.51              | 3.5/88                              | 1.5/38                              |
| SSH19-250                                              | .25/6.35         | 19/480            | .02/.51              | 5.0/127                             | 2.5/63                              |
| SSH27-250                                              | .25/6.35         | 27/680            | .02/.51              | 7.0/177                             | 3.5/88                              |
| SSH34-250                                              | .25/6.35         | 34/860            | .02/.51              | 9.0/228                             | 4.5/114                             |
| SSH16-375                                              | .38/9.53         | 16/400            | .03/.76              | 3.5/88                              | 1.5/38                              |
| SSH44-375                                              | .38/9.53         | 44/1,120          | .03/.76              | 12.0/304                            | 6.0/152                             |
| SSH18-500                                              | .5/12.70         | 18/460            | .03/.76              | 4.0/101                             | 2.0/50                              |
| SSH31-500                                              | .5/12.70         | 31/780            | .03/.76              | 8.0/203                             | 4.0/101                             |
| SSH21-625                                              | .63/15.88        | 21/530            | .03/.76              | 5.0/127                             | 2.5/63                              |
| SSH56-625                                              | .63/15.88        | 56/1,420          | .03/.76              | 16.0/406                            | 8.0/203                             |
| SSH69-625                                              | .63/15.88        | 69/1,750          | .03/.76              | 20.0/508                            | 10.0/254                            |
| SSH24-750                                              | .75/19.05        | 24/600            | .03/.76              | 6.0/152                             | 3.0/76                              |
| SSH37-750                                              | .75/19.05        | 37/940            | .03/.76              | 10.0/254                            | 5.0/127                             |
| SSH50-750                                              | .75/19.05        | 50/1,270          | .03/.76              | 14.0/355                            | 7.0/177                             |
| SSH62-750                                              | .75/19.05        | 62/1,570          | .03/.76              | 18.0/457                            | 9.0/228                             |

## Stainless Steel Ties — Specifications

| STAINLESS STEEL TYPE | COATING OR FINISH   | MIN. LOOP TENSILE STRENGTH SINGLE WRAP LBS./N. | MIN. LOOP TENSILE STRENGTH DOUBLE WRAP LBS./N. | APPLICATION TOOLS USED      | GENERAL APPLICATION                                                                                                                                        |
|----------------------|---------------------|------------------------------------------------|------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 302/304              | —                   | 150/667.20                                     | (single                                        | <b>DAS250</b>               | <ul style="list-style-type: none"> <li>• High temperatures</li> <li>• Marine/salt water applications</li> <li>• Harsh or corrosive environments</li> </ul> |
| 302/304              |                     | 150/667.20                                     | wrap                                           | <b>DAS250</b>               |                                                                                                                                                            |
| 302/304              |                     | 150/667.20                                     | only)                                          | <b>DAS250</b>               |                                                                                                                                                            |
| 302/304              |                     | 150/667.20                                     |                                                | <b>DAS250</b>               |                                                                                                                                                            |
| 302/304              |                     | 150/667.20                                     |                                                | <b>DAS250</b>               |                                                                                                                                                            |
| 316                  |                     | 150/667.20                                     |                                                | <b>DAS250</b>               | <ul style="list-style-type: none"> <li>• Washdown areas</li> </ul>                                                                                         |
| 316                  |                     | 150/667.20                                     |                                                | <b>DAS250</b>               |                                                                                                                                                            |
| 316                  |                     | 150/667.20                                     |                                                | <b>DAS250</b>               |                                                                                                                                                            |
| 316                  |                     | 150/667.20                                     |                                                | <b>DAS250</b>               |                                                                                                                                                            |
| 316                  |                     | 150/667.20                                     |                                                | <b>DAS250</b>               |                                                                                                                                                            |
| 200/300              | Nylon 11 Coated     | 75/334                                         | 300/1,334                                      | <b>WTAE200</b>              | <ul style="list-style-type: none"> <li>• Reusable</li> <li>• Cable bundling</li> <li>• Oil rigs</li> </ul>                                                 |
| 200/300              | (Uncoated or other  | 75/334                                         | 300/1,334                                      | <b>WTAE200</b>              |                                                                                                                                                            |
| 200/300              | colors available on | 75/334                                         | 300/1,334                                      | <b>WTAE200</b>              |                                                                                                                                                            |
| 200/300              | special order)      | 75/334                                         | 300/1,334                                      | <b>WTAE200</b>              |                                                                                                                                                            |
| 200/300              |                     | 75/334                                         | 300/1,334                                      | <b>WTAE200</b>              |                                                                                                                                                            |
| 200/300              |                     | 100/445                                        | 500/2,224                                      | <b>WTAE200</b>              | <ul style="list-style-type: none"> <li>• Telecommuni-cations towers</li> <li>• Hazardous and corrosive environments</li> <li>• Cable trays</li> </ul>      |
| 200/300              |                     | 100/445                                        | 500/2,224                                      | <b>WTAE200</b>              |                                                                                                                                                            |
| 200/300              |                     | 100/445                                        | 500/2,224                                      | <b>WTC075</b>               |                                                                                                                                                            |
| 200/300              |                     | 100/445                                        | 500/2,224                                      | <b>WTC075</b>               |                                                                                                                                                            |
| 200/300              |                     | 100/445                                        | 500/2,224                                      | <b>WTC075</b>               |                                                                                                                                                            |
| 200/300              |                     | 100/445                                        | 500/2,224                                      | <b>WTC075</b>               |                                                                                                                                                            |
| 200/300              |                     | 100/445                                        | 500/2,224                                      | <b>WTC075</b>               |                                                                                                                                                            |
| 201                  | Bright              | 450/2,002                                      | 1,200/5,338                                    | <b>WTJ020/WTC075/WTC001</b> |                                                                                                                                                            |
| 201                  |                     | 450/2,002                                      | 1,200/5,338                                    | <b>WTJ020/WTC075/WTC001</b> |                                                                                                                                                            |
| 201                  |                     | 450/2,002                                      | 1,200/5,338                                    | <b>WTJ020/WTC075/WTC001</b> |                                                                                                                                                            |
| 201                  |                     | 450/2,002                                      | 1,200/5,338                                    | <b>WTJ020/WTC075/WTC001</b> |                                                                                                                                                            |
| 201                  |                     | 450/2,002                                      | 1,200/5,338                                    | <b>WTJ020/WTC075/WTC001</b> |                                                                                                                                                            |
| 201                  |                     | 900/4,003                                      | 2,400/10,675                                   | <b>WTJ020/WTC075/WTC001</b> | <ul style="list-style-type: none"> <li>• Industrial hoses</li> <li>• Cable bundling</li> </ul>                                                             |
| 201                  |                     | 900/4,003                                      | 2,400/10,675                                   | <b>WTJ075/WTC001</b>        |                                                                                                                                                            |
| 201                  |                     | 1,400/6,227                                    | 3,300/14,678                                   | <b>WTJ075/WTC001</b>        | <ul style="list-style-type: none"> <li>• High strength</li> </ul>                                                                                          |
| 201                  |                     | 1,400/6,227                                    | 3,300/14,678                                   | <b>WTJ075/WTC001</b>        |                                                                                                                                                            |
| 201                  |                     | 1,700/7,562                                    | 4,000/17,792                                   | <b>WTJ075/WTC001</b>        |                                                                                                                                                            |
| 201                  |                     | 1,700/7,562                                    | 4,000/17,792                                   | <b>WTJ075/WTC001</b>        |                                                                                                                                                            |
| 201                  |                     | 1,700/7,562                                    | 4,000/17,792                                   | <b>WTC001</b>               |                                                                                                                                                            |
| 201                  |                     | 2,000/8,896                                    | 5,000/22,240                                   | <b>WTC001</b>               |                                                                                                                                                            |
| 201                  |                     | 2,000/8,896                                    | 5,000/22,240                                   | <b>WTC001</b>               |                                                                                                                                                            |
| 201                  |                     | 2,000/8,896                                    | 5,000/22,240                                   | <b>WTC001</b>               |                                                                                                                                                            |
| 201                  |                     | 2,000/8,896                                    | 5,000/22,240                                   | <b>WTC001</b>               |                                                                                                                                                            |

Ty-Rap® Stainless Steel Cable Ties have passed a variety of mechanical, environmental, and electrical tests. Other data can be made available upon request.

# Ty-Rap®

## Stainless Steel Cable Ties, Tools & Accessories

Boiler rooms, shipyards, or off-shore oil platforms — a match for any severe environment!

### Stainless Steel Strap Cable Ties

- Stainless steel strap cable ties have been designed for high-temperature applications and for use in areas of harsh, corrosive environments
- Rated at 200-lb. tensile strength
- Smooth edges protect both the cable insulation and the installer



| STD. PKG. CAT. NO. | BODY WIDTH IN./MM. | LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. |
|--------------------|--------------------|----------------|-------------------------------|--------------------------|----------------|
| TYS8               | .31/7.87           | 10.65/270.51   | 2/50.80                       | 200/889.60               | 50             |
| TYS14              | .31/7.87           | 14.65/372.11   | 4/101.60                      | 200/889.60               | 50             |
| TYS22              | .31/7.87           | 22.65/575.31   | 6/152.40                      | 200/889.60               | 50             |
| TYS28              | .31/7.87           | 28.65/727.71   | 8/203.20                      | 200/889.60               | 50             |

**NOTE:** Use WT3S Tool for tensioning and cutoff  
Cannot be coated with any covering material  
Made of 316 stainless steel

1,000-ft. reel to cut your desired length!  
**Stainless Steel Strapping on a Reel**



| STD. PKG. CAT. NO. | DESCRIPTION                                 | WIDTH IN./MM. | STRENGTH LBS./N. | STD. PKG. QTY. |
|--------------------|---------------------------------------------|---------------|------------------|----------------|
| TYS1000            | 1,000-ft. of strap, 2 reels of 500 ft. each | .31/7.87      | 200/889.60       | 1              |

Stainless steel ties of virtually any length can be produced from the 1,000-ft. reel in combination with the matching head.

**NOTE:** Use WT3S tool for tensioning and cutoff

Lockable heads for stainless steel strapping.  
**Stainless Steel Strapping Locking Heads**



| STD. PKG. CAT. NO. | DESCRIPTION                        | STD. PKG. QTY. |
|--------------------|------------------------------------|----------------|
| TYS5200H           | Heads only for stainless strapping | 50             |

A perfect mate with cable ties for tensioning and cutoffs.

### Ty-Rap® Stainless Steel Cable Tie Installation Tools



| STD. PKG. CAT. NO. | DESCRIPTION                                                             | STD. PKG. QTY. |
|--------------------|-------------------------------------------------------------------------|----------------|
| WT3S               | Installs strapping ties                                                 | 1              |
| DAS250             | Installs multi-lok, ball lock, and roller bar lock stainless steel ties | 1              |

Long-lasting anchor hold.  
**Stainless Steel Mounting Base**



| STD. PKG. CAT. NO. | DESCRIPTION                            | STD. PKG. QTY. |
|--------------------|----------------------------------------|----------------|
| TCS25              | Mounting base for stainless steel ties | 50             |

**Thomas & Betts**

[www.tnb.com](http://www.tnb.com)

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

Technical Services  
Tel: 888.862.3289



## S.S. Tape Embossing System and Stainless Steel I.D. Tags

Identify cable bundles with permanent, stainless steel imprintable tags.

### I.D. Tagging System

- Apply Type 304 stainless steel tags with stainless steel cable ties
- Easy-to-use — slip a tie through the slots in the tag and fasten with the installation tool
- Works with ¼" wide ties
- .015" Thickness



| STD. PKG. CAT. NO. | W IN./MM.  | L IN./MM. | WT. LBS./N. | STD. PKG. QTY. |
|--------------------|------------|-----------|-------------|----------------|
| SSID100            | .75/19.05  | 2.0/50.80 | 0.5/2.22    | 100            |
| SSID101            | 1.50/38.10 | 2.5/63.50 | 1.2/5.34    | 100            |
| SSID102            | .75/19.05  | 3.5/88.90 | 0.8/3.56    | 100            |

Packaging Quantity: 100/box

**NOTE:** Customized pre-embossed tags are available. Please consult Technical Service for details.

Add suffix (316) for 316 Stainless Steel.

No second guessing — quickly and accurately position I.D. tags!

### I.D. Tag Imprinter

- Imprint Thomas & Betts stainless steel I.D. tags
- Includes special tag holder for secure positioning and a ½" character imprinting wheel, standard (no substitutions allowed)



| CAT. NO. | DESCRIPTION                   | WEIGHT LBS./N. |
|----------|-------------------------------|----------------|
| WTID200  | I.D. Tag Imprinter            | 29.5/131.2     |
| WTID290  | ½" Character Imprinting Wheel | —              |
| WTID281  | ¼" Character Imprinting Wheel | —              |
| WTID283  | ¼" Character Imprinting Wheel | —              |
| WTID204  | (Kit) WTID200 and WTID 283    | —              |

Packaging Quantity: 1/box

Letters, numbers, and symbols — create easy-to-use custom identifications!

### Thomas & Betts Stainless Steel I.D. Tag

- Slip tags over carriers or strips (below) and attach to your cable or hose with a variety of Thomas & Betts Stainless Steel Cable Ties



| STD. PKG. CAT. NO. | DESCRIPTION      | LENGTH IN./MM. | WIDTH IN./MM. | WT. PER 100 | STD. PKG. QTY. |
|--------------------|------------------|----------------|---------------|-------------|----------------|
| ER010              | A                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER011              | B                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER012              | C                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER013              | D                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER014              | E                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER015              | F                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER016              | G                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER017              | H                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER018              | I                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER019              | J                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER020              | K                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER021              | L                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER022              | M +W             | .45/2.00       | .38/1.69      | .31         | 100            |
| ER023              | N                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER024              | O                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER025              | P                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER026              | Q                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER027              | R                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER028              | S                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER029              | T                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER030              | U                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER031              | V                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER032              | X                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER033              | Y                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER034              | Z                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER018              | 1                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER037              | 2                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER038              | 3                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER039              | 4                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER040              | 5                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER041              | 6                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER021              | 7                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER042              | 8                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER041              | 9                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER024              | 0                | .45/2.00       | .38/1.69      | .31         | 100            |
| ER035              | Minus/Hyphen (-) | .45/2.00       | .38/1.69      | .31         | 100            |
| ER036              | Blank ( )        | .45/2.00       | .38/1.69      | .31         | 100            |
| ER046              | Plus (+)         | .45/2.00       | .38/1.69      | .31         | 100            |
| ER047              | Earth (⊕)        | .45/2.00       | .38/1.69      | .31         | 100            |
| ER048              | Sine (~)         | .45/2.00       | .38/1.69      | .31         | 100            |
| ER049              | Slash (/)        | .45/2.00       | .38/1.69      | .31         | 100            |

Character size: .218" Material: .025" 316 stainless steel

### Thomas & Betts S.S. I.D. Tag Strips/Carriers



| STD. PKG. CAT. NO. | DESCRIPTION          | LENGTH IN./MM. | WIDTH IN./MM. | WT. PER 100 | STD. PKG. QTY. |
|--------------------|----------------------|----------------|---------------|-------------|----------------|
| ER043              | 6-Character Carrier  | 3.64/92.46     | .38/9.65      | .73         | 100            |
| ER044              | 10-Character Carrier | 5.14/130.56    | .38/9.65      | 1.25        | 100            |
| ER045              | 16-Character Carrier | 7.39/187.71    | .38/9.65      | 1.47        | 100            |
| ER050              | Short Strip          | 4.25/107.95    | .38/9.65      | .98         | 100            |
| ER051              | Medium Strip         | 5.75/146.05    | .38/9.65      | 1.33        | 100            |
| ER052              | Long Strip           | 8.00/203.20    | .38/9.65      | 1.85        | 100            |
| ER060              | I.D. Tag Kit         | —              | —             | —           | 1              |

I.D. Tag Kit contains 50 of each letter, number, symbol, carrier, and strip in a handy carrying case.

Ty-Rap®

## Stainless Steel Self-Locking Ties

### Spring feature provides an extra-snug fit!

### Stainless Steel Ties with Roller Bar Locking Mechanism

Thomas & Betts offers a line of self-locking, stainless steel ties for indoor and outdoor use. This low-profile design features an internal locking roller bar and spring-tension head that ensures a secure fit.

#### Features and Benefits

- Spring feature provides extra-snug fit in applications where bundle tightness is critical
- Internal locking roller bar (average slip, within the locking mechanism at 100 lb. (444.8 N) load is 55% lower than conventional ball lock design)
- Rounded edges and smooth surfaces for fast, safe hand installation
- Buckle length is 38% less and height is 24% less than the conventional ball-locking design
- 5 standard lengths with custom lengths available
- Available in two grades of stainless steel (302/304 for standard applications and 316 for extra corrosion resistance)

#### Ideal Applications

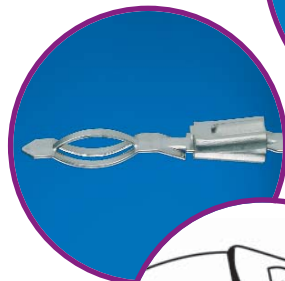
- High-temperature locations
- Marine environment (ship building, salt water environment)
- Harsh environment (oil rigs, refineries, mills food processing plants, auto car washers)
- Wash down areas

### Roller Locking Mechanism vs. Ball Locking Mechanism

| CHARACTERISTIC                    | SELF-LOK      | BALL LOCK     |
|-----------------------------------|---------------|---------------|
| Rating (lbs./n)                   | 150/667.20    | 100/444.80    |
| Buckle Length (inch/mm)           | .260/6.604    | .420/10.668   |
| Height over Buckle (inch/mm)      | .130/3.302    | .170/4.318    |
| Avg. Slip @ 100lb. Load (inch/mm) | .090/2.286    | .200/5.080    |
| Normal Mode of Failure            | Cont. Slip    | Loss of Ball  |
| Buckle Retention                  | Smooth ID     | Fold Under    |
| Tie Length                        | Same          | Same          |
| Material                          | 304 or 316 SS | 304 or 316 SS |

### Ordering Information

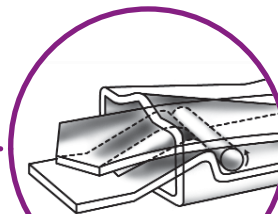
| STD. PKG. CAT. NO.                   | LENGTH IN./MM | WIDTH IN./MM | MAX. BUNDLE DIA. IN./MM | TENSILE STRENGTH LBS./N | STD. PKG. QTY. |
|--------------------------------------|---------------|--------------|-------------------------|-------------------------|----------------|
| <b>302/304 Grade Stainless Steel</b> |               |              |                         |                         |                |
| TS-4.6-200A                          | 8.8/222.9     | 0.18/4.6     | 2/50.8                  | 150/667.20              | 100            |
| TS-4.6-360A                          | 15.3/388.0    | 0.18/4.6     | 4/101.6                 | 150/667.20              | 100            |
| TS-4.6-520A                          | 21.3/540.4    | 0.18/4.6     | 6/152.4                 | 150/667.20              | 100            |
| TS-4.6-680A                          | 27.8/705.5    | 0.18/4.6     | 8/203.2                 | 150/667.20              | 100            |
| TS-4.6-840A                          | 33.8/857.9    | 0.18/4.6     | 10/254.0                | 150/667.20              | 100            |
| <b>316 Grade Stainless Steel</b>     |               |              |                         |                         |                |
| TS-4.6-200B                          | 8.8/222.9     | 0.18/4.6     | 2/50.8                  | 150/667.20              | 100            |
| TS-4.6-360B                          | 15.3/388.0    | 0.18/4.6     | 4/101.6                 | 150/667.20              | 100            |
| TS-4.6-520B                          | 21.3/540.4    | 0.18/4.6     | 6/152.4                 | 150/667.20              | 100            |
| TS-4.6-680B                          | 27.8/705.5    | 0.18/4.6     | 8/203.2                 | 150/667.20              | 100            |
| TS-4.6-840B                          | 33.8/857.9    | 0.18/4.6     | 10/254.0                | 150/667.20              | 100            |



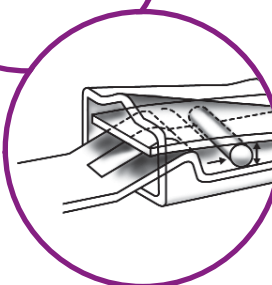
Unique Spring-Tension Head Design provides extra-snug fit where bundle tightness is critical.

### How It Works

Insert the tail into the buckle. The internal locking bar rolls freely as the tie is tightened.



Once the proper tension is reached, the tool automatically cuts off the tail. The bar then wedges into the buckle, locking it tightly against both the top and bottom of the band.



### Application Tool

DAS250 HAND TOOL (see page D-60)

**Thomas & Betts**
[www.tnb.com](http://www.tnb.com)

#### United States

Tel: 901.252.8000

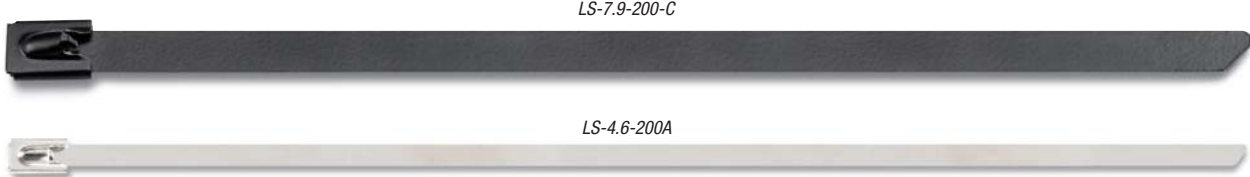
800.816.7809

Fax: 901.252.1354

#### Technical Services

Tel: 888.862.3289

Engineered to withstand the harshest environments!



## Heavy-Duty Stainless Steel Ball-Lock Cable Ties

These one-piece, self-locking stainless steel cable ties offer quick and easy installation — no crimping or folding required — and a strong, reliable lock. Choose among a variety of sizes and materials to meet all of your wire and cable bundling needs, even in the most extreme environments.

### Fast, easy installation

- Self-locking — no time-consuming crimping or folding required
- Stainless steel ball in low-profile, wedge-shaped head locks tie securely in place
- Angled tail enables fast, easy insertion
- Rounded edges and smooth surfaces protect installer's hands

### Wide range of sizes

- Six standard lengths cover most applications with custom lengths available
- Two standard widths offer tensile strength of 100 lbs. (444.8 N) or 250 lbs. (1,112 N)

### Three materials suit a variety of environments

- 302/304 grade stainless steel for standard applications
- 316 grade (marine-grade) stainless steel for extra corrosion resistance
- 316 grade (marine-grade) stainless steel, fully coated with low-smoke, Halogen-free polyester to withstand continuous exposure to salt spray, sunlight, petroleum and chemicals



### Typical Applications

- Offshore drilling
- Petrochemical processing
- Shipbuilding
- Food and beverage processing
- Pharmaceutical processing

### Specifications

- Operating Temp. Range:  
Uncoated: -112° F to 1,000° F (-80° C to 538° C)  
Coated: -40° F to 302° F (-40° C to 150° C)
- Approvals/Standards: UL, CE, Lloyd's Register, Germanischer Lloyd, American Bureau of Shipbuilding, Det Norske Veritas, RoHS compliant

### Application Tool

DAS250 HAND TOOL (see page D-60)

(Adjustable tension, automatic cut-off)



For a complete listing of Application Tools, see pages D-58–D-60.

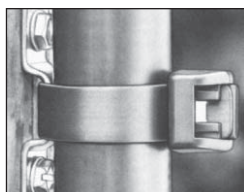
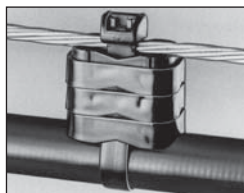
## Ordering Information

| UNCOATED<br>302/304 GRADE<br>STAINLESS STEEL | UNCOATED<br>316 GRADE<br>STAINLESS STEEL | FULLY COATED<br>316 GRADE<br>STAINLESS STEEL | LENGTH<br>IN./MM | WIDTH<br>IN./MM | MAX. BUNDLE<br>DIA.<br>IN./MM | TENSILE<br>STRENGTH<br>LBS./N | STD.<br>PKG. QTY. |
|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------|-----------------|-------------------------------|-------------------------------|-------------------|
| LS-4.6-200A                                  | LS-4.6-200B                              | LS-4.6-200-C                                 | 7.9/201          | 0.18/4.6        | 2/51                          | 100/445                       | 100               |
| LS-4.6-360A                                  | LS-4.6-360B                              | LS-4.6-360-C                                 | 14.2/360         | 0.18/4.6        | 4/102                         | 100/445                       | 100               |
| LS-4.6-520A                                  | LS-4.6-520B                              | LS-4.6-520-C                                 | 20.5/520         | 0.18/4.6        | 6/152                         | 100/445                       | 100               |
| LS-4.6-680A                                  | LS-4.6-680B                              | LS-4.6-680-C                                 | 26.7/679         | 0.18/4.6        | 8/203                         | 100/445                       | 100               |
| LS-4.6-840A                                  | LS-4.6-840B                              | —                                            | 33.0/838         | 0.18/4.6        | 10/254                        | 100/445                       | 100               |
| LS-7.9-200A                                  | LS-7.9-200B                              | LS-7.9-200-C                                 | 7.9/201          | 0.31/7.9        | 2/51                          | 250/1,112                     | 50                |
| LS-7.9-360A                                  | LS-7.9-360B                              | LS-7.9-360-C                                 | 14.2/360         | 0.31/7.9        | 4/102                         | 250/1,112                     | 50                |
| LS-7.9-520A                                  | LS-7.9-520B                              | LS-7.9-520-C                                 | 20.5/520         | 0.31/7.9        | 6/152                         | 250/1,112                     | 50                |
| LS-7.9-680A                                  | LS-7.9-680B                              | LS-7.9-680-C                                 | 26.7/679         | 0.31/7.9        | 8/203                         | 250/1,112                     | 50                |
| LS-7.9-840A                                  | LS-7.9-840B                              | —                                            | 33.0/838         | 0.31/7.9        | 10/254                        | 250/1,112                     | 50                |
| LS-7.9-1010A                                 | LS-7.9-1010B                             | —                                            | 41.3/1050        | 0.31/7.9        | 12.5/318                      | 250/1,112                     | 50                |



**Ty-Rap®****DELTEC® Cable Support System**

Strong, long-life and cost-saving method of securing communication cables.



## The Deltec® Cable Support System

The Deltec® Cable Support System is a user-friendly product designed to provide ease and flexibility in fastening communications cables to messenger strand. It is equally well suited for copper conductor cable, coaxial cable, fiber optic cable and inner duct in aerial applications.

The Deltec® system answers your aerial cable needs with innovative design and state-of-the-art materials. This system includes weather-resistant acetal cable straps, marine grade locking devices, and base hanger accessories for specific applications where mounting is required.

Pre-assembled Deltec® cable straps are available in standard lengths of 10" (254 mm), 13.5" (342.9 mm), and 27" (685.8 mm). Convenient 50' (15.24 m) to 3500' (1066.8 m) reels where specific lengths need to be established by the installer in the field are available. Additional "standard" lengths can be established for applications where higher volumes prevail.

### Advantages of the Deltec® System Include:

- Proven years of service
- No sharp edges — craft friendly! Cable friendly!
- Ease of installation — one wrap, no re-treading of re-strap
- Lowers installation costs
- High tensile strength after fastening
- Total flexibility in lengths when using reel
- Stackable spacers accommodate all cable sizes — no need to stock multiple sizes of individual height spacers
- Spacer designed to retain strap on each side and cradle the cable, providing restricted movement of spacer and preventing damage to cable
- In situations where multiple cables are supported, the T&B TCP360 stackable spacer may be rotated 90° and installed similarly to a single cable, yet provide the same restricting features (unlike those commonly used today)
- Month and year of manufacture stamped into strap material
- Squirrels and vermin won't eat it!



## Extra security!

### Cable Tie with Double-Locking Head

The recommended maximum continuous static loading for the DELTEC® straps is 20 lbs. per strap. For best results, suggested spacing is 15". It's the responsibility of the user to determine whether or not their application meets our recommendation.

**NOTE:** Use WT3D Tool for tensioning and cutoff.



### Specifications

- Strap and Body: Weatherable acetal; offers superior resistance to sunlight, moisture, and salt environments
- Locking Device: Marine-grade corrosion-resistant copper alloy
- Deltec System Temperature Range: -30° F to 150° F; (-34° C to 66° C)
- Minimum Tensile Strength: 250 lbs. minimum (1,211 N)
- Outdoor Life: Designed to last a minimum of 20 years
- Continuous Load: 20 lbs. (9.07 kg)
- Continuous Use Temperature: -85° F to 194° F; (-65° C to 90° C)
- Color: Black

| STD. PKG. CAT. NO. | BODY WIDTH IN./MM. | MAX. WIRE LENGTH IN./MM. | BUNDLE DIA. IN./MM. | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. |
|--------------------|--------------------|--------------------------|---------------------|--------------------------|----------------|
| TYD10M             | .5/12.70           | 10/254.00                | 3/76.20             | 250/1,112                | 25             |
| TYD510M            | .5/12.70           | 51.2/1300.48             | 16/406.40           | 250/1,112                | 50             |
| TYD5135M           | .5/12.70           | 13.5/342.90              | 3.5/88.90           | 250/1,112                | 25             |
| TYD5270M           | .5/12.70           | 27/685.80                | 8/203.20            | 250/1,112                | 10             |

**Thomas & Betts**

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

Technical Services  
Tel: 888.862.3289

## Cable Ties—DELTEC® and Lashing Straps

One spacer for any cable size!

### Modular Stackable Cable Spacers

- Stackable for any desired spacing
- Less inventory — one catalog number
- ½" high



| STD PKG. CAT. NO.                         | DESCRIPTION                                 | STD. PKG. QTY. |
|-------------------------------------------|---------------------------------------------|----------------|
| TCP5255                                   | Modular Stackable Spacer for DELTEC® Straps | 25             |
| TCP360                                    | For Coaxial Cable                           | 100            |
| • Made of weather-resistant polypropylene |                                             |                |
| • Color — Black                           |                                             |                |

Heads for DELTEC® strap!

### Locking Heads



| STD PKG. CAT. NO.            | DESCRIPTION                 | STD. PKG. QTY. |
|------------------------------|-----------------------------|----------------|
| TYD-LH                       | Heads only for DELTEC Strap | 25             |
| 696-41795                    | Heads only for DELTEC Strap | 1,000          |
| • Made of weatherable acetal |                             |                |
| • Color — Black              |                             |                |

Secures cables to all types of surfaces.

### DELTEC® Base and Hanger



| STD PKG. CAT. NO.           | DESCRIPTION              | STD. PKG. QTY. |
|-----------------------------|--------------------------|----------------|
| CSS-B                       | Base for Deltec® Strap   | 50             |
| CSS-H                       | Hanger for Deltec® Strap | 50             |
| • Made of zinc-plated steel |                          |                |

Install ties easily!

### Installation/Cutting Tool

| STD PKG. CAT. NO. | DESCRIPTION                                                              | RANGE          | WT. EACH | STD. PKG. QTY. |
|-------------------|--------------------------------------------------------------------------|----------------|----------|----------------|
| WT3D              | Installs self-locking Ty-Rap® cable ties and Thomas & Betts lashing ties | .184 thru .500 | 8 oz.    | 1              |



Convenient and easy to use!

### DELTEC® Strap Dispenser on Reels

| STD PKG. CAT. NO. | DESCRIPTION          | TENSILE STRENGTH LBS./N. | BODY WIDTH IN./MM. | STD. PKG. QTY. |
|-------------------|----------------------|--------------------------|--------------------|----------------|
| TYD-50R           | 50' Reel of Strap    | 250/1,112                | .50/12.70          | 1              |
| 696-41794         | 1,000' Reel of Strap | 250/1,112                | .50/12.70          | 1              |
| 696-41952         | 3,500' Reel of Strap | 250/1,112                | .50/12.70          | 1              |

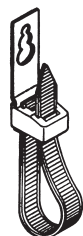


## Lashing Straps

Resistant to UV light, chemicals, and lower in moisture absorption.

### Weather-Resistant Nylon 12 Messenger Hanger and Hanger Straps (Releasable)

Nylon 12 is a lower, moisture-absorbing material than 6.6 nylon — making the effect of water on properties much less.



Weather-Resistant, Nylon 12 Messenger Hanger Straps (releasable)



| STD. PKG. CAT. NO. | BODY WIDTH IN./MM. | LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | HOOK MATERIAL | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. |
|--------------------|--------------------|----------------|-------------------------------|---------------|--------------------------|----------------|
|--------------------|--------------------|----------------|-------------------------------|---------------|--------------------------|----------------|

#### Weather-Resistant Nylon 12 Messenger Hanger Straps (Releasable)

|            |         |          |         |                 |           |    |
|------------|---------|----------|---------|-----------------|-----------|----|
| TYM5412X   | .5/12.7 | 12/304.8 | 3/76.2  | Bronze          | 200/889.6 | 50 |
| TYM5418X   | .5/12.7 | 18/457.2 | 5/127   | Bronze          | 200/889.6 | 25 |
| TYM5423X   | .5/12.7 | 24/609.6 | 7/177.8 | Bronze          | 200/889.6 | 25 |
| TYM5430X   | .5/12.7 | 30/762.0 | 9/228.6 | Bronze          | 200/889.6 | 25 |
| TYM5436X   | .5/12.7 | 36/914.4 | 11/279  | Bronze          | 200/889.6 | 25 |
| TYM5412X-S | .5/12.7 | 12/304.8 | 3/76.2  | Stainless Steel | 200/889.6 | 50 |
| TYM5418X-S | .5/12.7 | 18/457.2 | 5/127   | Stainless Steel | 200/889.6 | 25 |
| TYM5423X-S | .5/12.7 | 24/609.6 | 7/177.8 | Stainless Steel | 200/889.6 | 25 |
| TYM5430X-S | .5/12.7 | 30/762.0 | 9/228.6 | Stainless Steel | 200/889.6 | 25 |
| TYM5436X-S | .5/12.7 | 36/914.4 | 11/279  | Stainless Steel | 200/889.6 | 25 |

#### Weather-Resistant Nylon 12 Hanger Strap (Releasable)

|          |         |              |         |       |           |    |
|----------|---------|--------------|---------|-------|-----------|----|
| TY54407X | .5/12.7 | 6.36/151.54  | 2/50.8  | Steel | 200/889.6 | 50 |
| TY54413X | .5/12.7 | 13.75/349.25 | 4/101.6 | Steel | 200/889.6 | 25 |

The recommended, maximum continuous static loading for the nylon 12 straps is 25 lbs. per strap. For best results, suggested spacing is 15". It's the responsibility of the user to determine whether or not their application meets our recommendation. Hook will accommodate 1/8" dia. messenger wire.

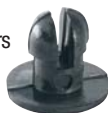
• Color — Black

For use in temperatures ranging from -40° F to 176° F (-40° C to 80° C).

Retains original shape after compression.

### Stud Buttons

- Part numbers contain recommended mounting hole diameters
- For use with Catamount strapping or panel thickness through .165" with mounting holes through # ¼
- Stocked in heat-stabilized Black Nylon for high heat applications
- UL Flammability 94 V-2



| BULK PKG. CAT. NO. | H HEAD DIA. IN./MM. | A IN./MM. | C IN./MM. | D IN./MM. | L IN./MM. | BULK PKG. QTY. |
|--------------------|---------------------|-----------|-----------|-----------|-----------|----------------|
| BTNY-167-0-D       | .34/8.64            | .13/3.30  | .20/5.08  | .17/4.32  | .30/7.62  | 500            |
| BTNY-203-0-D       | .47/11.94           | .16/4.06  | .24/6.10  | .20/5.08  | .36/9.14  | 500            |
| BTNY-265-0-D       | .58/14.73           | .17/4.32  | .30/7.62  | .26/6.60  | .41/10.41 | 500            |

Carbon black prolongs the cable tie's life — UV protective, too!

### Heavy-Duty Lashing Tie (Releasable)



Length: 19"

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | BODY WIDTH IN./MM. | LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|--------------------|----------------|-------------------------------|--------------------------|----------------|----------------|
| TY5409             | TY409              | .5/12.7            | 19/482.6       | 4.75/120.65                   | 200/889.6                | 25             | 100            |

Heavy-duty and made of weather-resistant nylon. For use in temperatures ranging from -40° F to 176° F (-40° C to 80° C).

An absolute in chemical environments when nylon isn't applicable.

### Weather-Resistant Polypropylene Lashing and Hanger Lashing Tie (Releasable)

Chemical exposure directly affects the life of a cable tie making polypropylene ties an ideal choice. Black is usable for outdoor use, too.



| STD. PKG. CAT. NO. | BODY WIDTH IN./MM. | LENGTH IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | TENSILE STRENGTH LBS./N. | STD. PKG. QTY. |
|--------------------|--------------------|----------------|-------------------------------|--------------------------|----------------|
|--------------------|--------------------|----------------|-------------------------------|--------------------------|----------------|

#### Weather-Resistant Polypropylene Lashing Tie (Releasable)

|          |         |           |          |           |    |
|----------|---------|-----------|----------|-----------|----|
| TY5418PX | .5/12.7 | 18/457.2  | 5/127.0  | 150/667.2 | 25 |
| TY5424PX | .5/12.7 | 24/609.6  | 7/177.8  | 150/667.2 | 25 |
| TY5442PX | .5/12.7 | 42/1066.8 | 12/304.8 | 150/667.2 | 10 |
| TY5460PX | .5/12.7 | 60/1524   | 18/457.2 | 150/667.2 | 10 |

#### Weather-Resistant Polypropylene Hanger Lashing Tie (Releasable)

|           |         |          |   |    |
|-----------|---------|----------|---|----|
| TY53418PX | .5/12.7 | 18/457.2 | 5 | 25 |
|-----------|---------|----------|---|----|

Made of black weather-resistant polypropylene for outdoor use.

For use in temperatures ranging from -40° F to 176° F (-40° C to 80° C).

### Strapping Accessories Reference

| STRAPPING NUMBER | STRAP-TITE BUCKLE | MOUNTING TAB | MOUNTING CRADLE | STUD BUTTONS | MACHINE SCREW |
|------------------|-------------------|--------------|-----------------|--------------|---------------|
| S2NY-096-0-C     | —                 | M4NY-203-0-D | C4NY-203-0-D    | BTNY-096-0-D | #2            |
| S4NY-128-0-C     | —                 | M4NY-203-0-D | C4NY-203-0-D    | —            | #5            |
| S4NY-140-0-C     | —                 | M4NY-203-0-D | C4NY-203-0-D    | —            | #6            |
| S4NY-167-0-C     | B4NY-167-0-D      | M4NY-203-0-D | C4NY-203-0-D    | BTNY-167-0-D | #8            |
| S4NY-167X-0-C    | B4NY-167-0-D      | M4NY-203-0-D | C4NY-203-0-D    | BTNY-167-0-D | #8            |
| S6NY-000-0-C     | —                 | M6NY-265-0-D | —               | —            | —             |
| S6NY-167-0-C     | —                 | M6NY-265-0-D | —               | —            | #8            |

| STRAPPING NUMBER | STRAP-TITE BUCKLE | MOUNTING TAB | STUD BUTTONS | MACHINE SCREW |
|------------------|-------------------|--------------|--------------|---------------|
| S6NY-203-0-C     | B6NY-203-0-D      | M6NY-265-0-D | BTNY-203-0-D | #10           |
| S6NY-203X-0-C    | B6NY-203-0-D      | M6NY-265-0-D | BTNY-203-0-D | #10           |
| S7NY-265-0-C     | B7NY-265-0-D      | M7NY-328-0-D | BTNY-265-0-D | #¼            |
| S7NY-265X-0-C    | B7NY-265-0-D      | M7NY-328-0-D | BTNY-265-0-D | #¼            |
| S7NY-281-0-C     | —                 | M7NY-328-0-D | —            | #¼            |
| S9NY-203-0-C     | —                 | —            | BTNY-203-0-D | #10           |
| S9NY-265-0-C     | —                 | —            | BTNY-265-0-D | #¼            |
| S9NY-390-0-C     | —                 | —            | —            | #¾            |

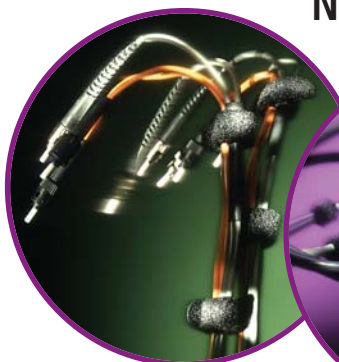


## Hook and Loop Fasteners

New version available — UL94V-2 rated material.

### FO, FOL, FOS and FOR Series

- High-quality Hook & Loop Fasteners designed specifically for Thomas & Betts
- Enables quick and convenient bundling of data and fiber optic cables
- Sizes available to accommodate varying bundle diameters
- Screw and adhesive mounting bases provide multiple mounting options



FO Series Loop Ties

Wrap pre-determined bundle diameters using the convenient slotted head!



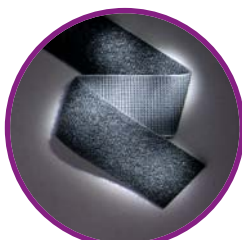
FOL Series Buckle Ties

Polymer buckles provide added strength and stability.



FOS Series Strip Ties

Pre-cut lengths make bundling a cinch!



FOR Series Rolled Hook and Loop

Rolled hook and loop material enables custom cut lengths, avoiding waste.

**Fasteners available in these colors:** Black, Brown, Red, Orange, Yellow, Green, Blue, Gray, and White. Please consult customer service for delivery and availability.

| STD. PKG. CAT. NO.                     | MIN. TENSILE STRENGTH LBS./N. | MAX. BUNDLE DIA. IN./MM. | LENGTH IN./MM. | WIDTH IN./MM. | STD. PKG. QTY. |
|----------------------------------------|-------------------------------|--------------------------|----------------|---------------|----------------|
| <b>*FO Series Loop Ties</b>            |                               |                          |                |               |                |
| F0200-40-0                             | 40/177.9                      | 2.0/50.80                | 9/228.6        | .50/12.7      | 10             |
| F0200-50-0                             | 50/222.4                      | 2.0/50.80                | 9/228.6        | .75/19.05     | 10             |
| F0350-40-0                             | 50/222.4                      | 3.5/88.90                | 13/330.2       | .50/12.7      | 10             |
| F0350-50-0                             | 50/222.4                      | 3.5/88.90                | 13/330.2       | .75/19.05     | 10             |
| <b>FOL Series Buckle Ties</b>          |                               |                          |                |               |                |
| FOL300-50-0                            | 50/222.4                      | 3.0/76.20                | 12/304.8       | .75           | 10             |
| FOL500-50-0                            | 50/222.4                      | 5.0/127.0                | 18/457.2       | .75           | 10             |
| <b>FOS Series Strip Ties</b>           |                               |                          |                |               |                |
| FOS150-50-0                            | 50/222.4                      | 1.5/38.10                | 6/152.4        | —             | 10             |
| FOS320-50-0                            | 50/222.4                      | 3.2/81.28                | 12/304.8       | —             | 10             |
| FOS500-50-0                            | 50/222.4                      | 5.0/127.00               | 18/457.2       | —             | 10             |
| <b>FOR Series Rolled Hook and Loop</b> |                               |                          |                |               |                |
| FOR180-50-0                            | 50/222.4                      | Various                  | 180/4572       | —             | 1              |

• Black is standard color.

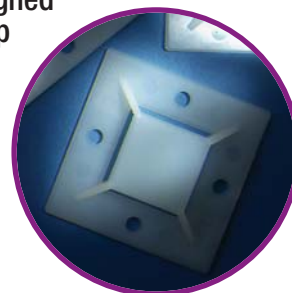
• Multiple colors available for identifying specific bundles

\*Add — "FR" for UL94V-2 rated material, after color choice.

Contact Customer Service for availability and delivery.

Two mounting bases designed for use with hook and loop fasteners.

### Nylon 6.6 Mounting Bases



| BULK PKG. CAT. NO. | DESCRIPTION              | SCREW SIZE | MAXIMUM TIE WIDTH ACCOM. | BULK PKG. QTY. |
|--------------------|--------------------------|------------|--------------------------|----------------|
| TC368              | 2" x 2" Screw Mounted    | #8         | 0.75/19.05               | 500            |
| TC368A             | 2" x 2" Adhesive Mounted | #8         | 0.75/19.05               | 500            |

—40°F/—40°C to 176°F/80°C

• Natural nylon color.

# Ty-Rap®

## Low-Profile All Nylon Cable Ties

Ideal for precision bundling!

### Low-Profile All-Nylon 6.6 Cable Ties

- Low-profile, contoured head reduces clearance required for the bundle and enhances the appearance of your harness
- The safeguard wall eliminates exposure to sharp edges
- The saddleback fits snug against the contour of the wiring harness
- Sizes and colors available to accommodate varying requirements

*Low-profile contoured head compared with the profile of a common cable tie.*



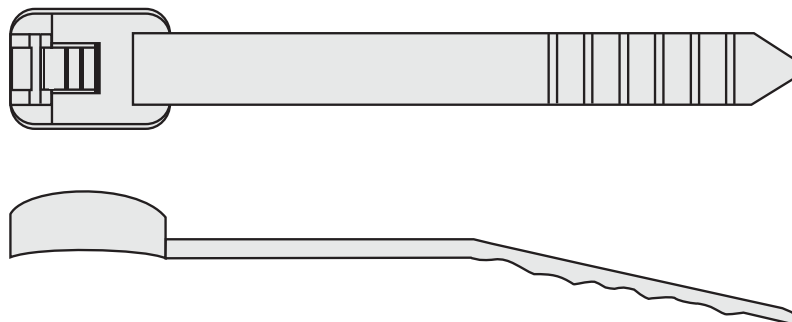
This fastener design from Thomas & Betts is ideal for use where clearance is a necessity. A unique saddleback design curves to form a snug fit around the bundle and allows for easy pull-through in bulkheads and any other tight spaces. Our contoured head eliminates snagging, and sharp edges are reduced by our safeguard walls.

### Cable Ties Ordering Information

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | BUNDLE RANGE DIA. IN./MM. | TENSILE STRENGTH LBS./N. | TIE LENGTH IN./MM. | STRAP WIDTH IN./MM. | STRAP THICK IN./MM. | STD. PKG. QTY. | BULK. PKG. QTY. |
|--------------------|--------------------|---------------------------|--------------------------|--------------------|---------------------|---------------------|----------------|-----------------|
| SF100-18-100       | SF100-18           | .13/3.3–1.00/25.4         | 18/80.07                 | 4.65/118.11        | .095/2.41           | .04/1.09            | 100            | 1,000           |
| SF150-18-100       | SF150-18           | .13/3.3–1.50/38.1         | 18/80.07                 | 6.45/163.83        | .1/2.41             | .04/1.09            | 100            | 1,000           |
| SF200-18-100       | SF200-18           | .13/3.3–2.00/50.8         | 18/80.07                 | 8.10/205.74        | .1/2.41             | .04/1.09            | 100            | 1,000           |
| SF175-50-100       | SF175-50           | .19/4.8–1.75/44.45        | 50/222.4                 | 7.70/195.58        | .19/4.75            | .05/1.22            | 100            | 1,000           |
| SF300-50-100       | SF300-50           | .19/4.8–3.00/76.2         | 50/222.4                 | 11.33/287.78       | .19/4.75            | .05/1.22            | 100            | 1,000           |
| SF400-50-100       | SF400-50           | .19/4.8–4.00/101.6        | 50/222.4                 | 14.53/369.06       | .19/4.75            | .05/1.22            | 100            | 1,000           |
| SF400-120-100      | SF400-120          | .38/9.6–4.00/101.6        | 120/533.8                | 14.58/370.33       | .30/7.62            | .07/1.78            | 100            | 500             |
| SF600-120-50       | SF600-120          | .38/9.6–6.00/152.4        | 120/533.8                | 21.00/533.4        | .30/7.62            | .07/1.78            | 50             | 500             |

Material: Natural Nylon 6.6. Also available in black outdoor weatherable (suffix "-X").

- Natural nylon color is standard. For colored Ty-Rap Low-Profile Cable Ties, refer to **page D-4**.  
Example: **SF175-50-2** (Red)



**Thomas & Betts**

[www.tnb.com](http://www.tnb.com)

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

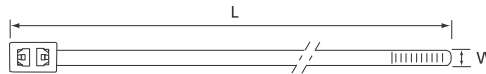
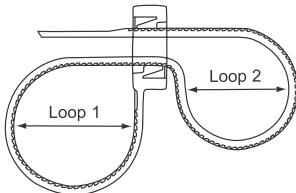
Technical Services  
Tel: 888.862.3289

## Double Loop, Badge Holder and Restricted Bundle Cable Ties

### Double Loop Nylon 6.6 Cable Tie

#### Advantages:

- Enables parallel routing of two cable bundles with one single cable tie!
- Halogen- and silicone-free to meet your application needs
- Quick and easy pull-through increases productivity, reduces operator fatigue

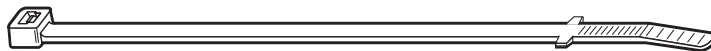


| BULK PKG.<br>CAT. NO. | LENGTH<br>IN./MM. | WIDTH<br>IN./MM. | BUNDLE DIAMETER RANGE |                    | TENSILE<br>STRENGTH (LB/N.) | INSTALLATION TOOLING<br>FOR ALL SIZES | BULK<br>PKG. |
|-----------------------|-------------------|------------------|-----------------------|--------------------|-----------------------------|---------------------------------------|--------------|
|                       |                   |                  | LOOP 1 IN./MM.        | LOOP 2 IN./MM.     |                             |                                       |              |
| TB-50RLDH             | 7.8/198.12        | .19/4.83         | .1/2.54-1.8/45.72     | .1/2.54-1.7/ 43.18 | 50/222.4                    | ERG50                                 | 1,000        |
| TB-12-50RLDH          | 11.8/299.72       | .19/4.83         | .1/2.54-2.8/71.12     | .1/2.54-2.7/68.58  | 50/222.4                    | ERG50                                 | 1,000        |
| TB-15-50RLDH          | 14.6/370.84       | .19/4.83         | .1/2.54-3.9/99.06     | .1/2.54-3.8/96.52  | 50/222.4                    | ERG50                                 | 1,000        |

Natural nylon color

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### The badge holder that won't leave you out in the cold!



### Badge Holder Nylon 6.6 Cable

- Designed specifically for ticket or badge attachment to prevent damage when in use
- Incorporates a loop diameter restriction device that forms the proper sized 1¼" loop required to hold the ticket or badge in place and lay flat
- Prevents the tie from being over-tightened and damaging the ticket or badge
- The Badge Holder is tamper-resistant and smooth up to the restriction point to keep it from being reused
- The Badge Holder is designed with a flexible short round tail, safely eliminating sharp edges
- Affordable at just pennies per fastener!



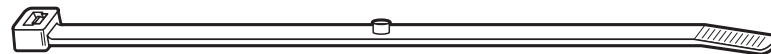
| STD. PKG.<br>CAT. NO. | LENGTH<br>IN./MM. | WIDTH<br>IN./MM. | STD.<br>PKG. |
|-----------------------|-------------------|------------------|--------------|
| SJ-5-30SKI-9-M        | 5.6/142.24        | .13/3.30         | 1,000        |

• Natural nylon color. Please consult Customer Service for ordering and availability of colors and heat-stamping.

Max. Tensile Strength: 30 lbs. (133.4 N.)

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### Restricted Bundle Nylon 6.6 Cable Tie



| STD. PKG.<br>CAT. NO. | BULK PKG.<br>CAT. NO. | BUNDLE<br>DIAMETER<br>IN./MM. | LENGTH<br>IN./MM. | WIDTH<br>IN./MM. | MINIMUM<br>LOOP TENSILE<br>LB/N. | TAB<br>HEIGHT<br>IN./MM. | STD.<br>PKG. QTY. | BULK<br>PKG. QTY. |
|-----------------------|-----------------------|-------------------------------|-------------------|------------------|----------------------------------|--------------------------|-------------------|-------------------|
| TB-5-30TB-3-C         | TB-5-30TB-3-M         | 2 1/32-1 1/4/17-32            | 5.6/142           | .130/3           | 30/133.4                         | .062/1.58                | 100               | 1,000             |

- Recommended for tote-box, security and temporary applications.
- Use ERG50 Installation Tools on Low setting. Consult Customer Service for availability and colors.
- Orange color

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).



## Cable Tie Mounting Bases

Choose from adhesive-backed, epoxy or screw mounting bases!

### Two-Way Adhesive Mounting Bases



- Available in a variety of materials for both indoor and outdoor use
- One-piece molding — no lost parts
- Adhesive-backed with pressure-sensitive adhesive tape (where applicable)

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD  | MAX. TIE WIDTH ACCOM. | LENGTH IN./MM. | WIDTH IN./MM. | MATERIAL                              | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|------------------|-----------------------|----------------|---------------|---------------------------------------|----------------|----------------|
| TC5342A            | TC342A             | SRA* Adhesive    | .19                   | 1.13/28.58     | 1.13/28.58    | Nylon 6.6                             | 100            | 1,000          |
| —                  | TC342A-X           | SRA* Adhesive    | .19                   | 1.13/28.58     | 1.13/28.58    | Weatherable Nylon                     | —              | 1,000          |
| —                  | TC342              | TC2PA            | .19                   | 1.13/28.58     | 1.13/28.58    | Nylon 6.6                             | —              | 1,000          |
| —                  | TC342X             | TC2PA            | .19                   | 1.13/28.58     | 1.13/28.58    | Weatherable Nylon                     | —              | 1,000          |
| —                  | TC342A-FR          | SRA* Adhesive    | .19                   | 1.13/28.58     | 1.13/28.58    | Flame-Retardant Nylon                 | —              | 1,000          |
| —                  | TC342AH-TFR        | Acrylic Adhesive | .19                   | 1.13/28.58     | 1.13/28.58    | Black High-Temp Flame-Retardant Nylon | —              | 1,000          |

Temperature Rating: 32° F to 150° F (0° C to 66° C)

\*Synthetic Rubber Adhesive

Select the Four-way configuration you need!

### Four-Way Adhesive Mounting Base



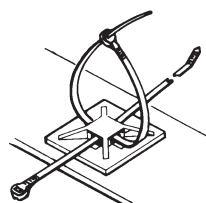
- Eliminates errors in premounting the base with respect to its orientation to wire bundle direction
- Convenient way to mount wire bundles at cross-over points — two optional mounting holes included

| STD. PKG. CAT. NO.                  | BULK PKG. CAT. NO. | MOUNTING METHOD  | MAX. TIE WIDTH ACCOM. | LENGTH IN./MM. | WIDTH IN./MM. | MATERIAL                              | STD. PKG. QTY. | BULK PKG. QTY. |
|-------------------------------------|--------------------|------------------|-----------------------|----------------|---------------|---------------------------------------|----------------|----------------|
| <b>4-Way Adhesive Mounting Base</b> |                    |                  |                       |                |               |                                       |                |                |
| TC5345A                             | TC345A             | SRA* Adhesive    | .19                   | 1.13/28.58     | 1.13/28.58    | Nylon 6.6                             | 100            | 1,000          |
| —                                   | TC345AFR           | SRA* Adhesive    | .19                   | 1.13/28.58     | 1.13/28.58    | Flame-Retardant Nylon                 | —              | 1,000          |
| TC5345AX                            | TC345AX            | SRA* Adhesive    | .19                   | 1.13/28.58     | 1.13/28.58    | Weatherable Nylon                     | 100            | 1,000          |
| TC5345AHTFR                         | TC345AHTFR         | Acrylic Adhesive | .19                   | 1.13/28.58     | 1.13/28.58    | Black High-Temp Flame-Retardant Nylon | 100            | 1,000          |
| —                                   | TC345              | TC2PA/Screws     | .19                   | 1.13/28.58     | 1.13/28.58    | Nylon 6.6                             | —              | 1,000          |

### Four-Way Mini Base



### Large Four-Way Base



|                         |             |               |     |           |            |                   |     |       |
|-------------------------|-------------|---------------|-----|-----------|------------|-------------------|-----|-------|
| <b>4-Way Mini Base</b>  |             |               |     |           |            |                   |     |       |
| TC050X050A-C            | TC050X050A  | SRA* Adhesive | .10 | 0.5/12.70 | 0.5/12.70  | Nylon 6.6         | 100 | 1,000 |
| TC050X050-C             | TC050X050AX | SRA* Adhesive | .10 | 0.5/12.70 | 0.5/12.70  | Weatherable Nylon | 100 | 1,000 |
| TC5344A                 | TC344A      | SRA* Adhesive | .14 | .75/19.05 | .75/19.05  | Nylon 6.6         | 100 | 1,000 |
| TC5344AX                | TC344AX     | SRA* Adhesive | .14 | .75/19.05 | .75/19.05  | Weatherable Nylon | 100 | 1,000 |
| TC5344                  | TC344       | Screw Mount   | .14 | .75/19.05 | .75/19.05  | Nylon 6.6         | 100 | 1,000 |
| <b>Large 4-Way Base</b> |             |               |     |           |            |                   |     |       |
| TC150X150L              | TC150X150   | Screw Mount   | .19 | 1.5/38.10 | 1.50/38.10 | Nylon 6.6         | 50  | 500   |
| TC150X150A-L            | TC150150A   | SRA* Adhesive | .19 | 1.5/38.10 | .50/38.10  | Nylon 6.6         | 50  | 500   |
| TC150X150AX-L           | TC150X150AX | SRA* Adhesive | .19 | 1.5/38.10 | .50/38.10  | Weatherable Nylon | 50  | 500   |
| TC200X200-L             | TC200X200   | Screw Mount   | .30 | 2.0/50.80 | 2.0/50.80  | Nylon 6.6         | 50  | 500   |
| TC200X200A-L            | TC200X200A  | SRA* Adhesive | .30 | 2.0/50.80 | 2.0/50.80  | Nylon 6.6         | 50  | 500   |
| —                       | TC200X200AX | SRA* Adhesive | .30 | 2.0/50.80 | 2.0/50.80  | Weatherable Nylon | —   | 500   |
| —                       | TC368       | Screw Mount   | .75 | 2.0/50.80 | 2.0/50.80  | Nylon 6.6         | —   | 500   |
| —                       | TC368A      | SRA* Adhesive | .75 | 2.0/50.80 | 2.0/50.80  | Nylon 6.6         | —   | 500   |

Temperature Rating: 32° F to 150° F (0° C to 66° C)

\*Synthetic Rubber Adhesive

Great versatility!

### Two- and Four-Way Adhesive Mounting Base



- Accommodates the entire line of standard cable ties
- 4-way base for cable ties up to .184" maximum width and a two-way base for ties up to .301" maximum width
- It may also be mounted with #8 size screw (2 holes)

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAX. TIE WIDTH ACCOM. | LENGTH (IN.) | WIDTH (IN.) | MATERIAL                          | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|-----------------|-----------------------|--------------|-------------|-----------------------------------|----------------|----------------|
| TC5347A            | TC347A             | SRA* Adhesive   | .30                   | 1.13/28.58   | 1.13/28.58  | Nylon 6.6                         | 100            | 1,000          |
| TC5347AX           | —                  | SRA* Adhesive   | .30                   | 1.13/28.58   | 1.13/28.58  | Weatherable Nylon                 | 100            | —              |
| —                  | TC347              | TC2PA/Screws    | .30                   | 1.13/28.58   | 1.13/28.58  | Nylon 6.6                         | —              | 1,000          |
| —                  | TC347FR            | TC2PA/Screws    | .30                   | 1.13/28.58   | 1.13/28.58  | Flame-Retardant                   | —              | 1,000          |
| —                  | TC347X             | TC2PA/Screws    | .30                   | 1.13/28.58   | 1.13/28.58  | Weatherable Nylon                 | —              | 1,000          |
| —                  | TCZ347             | TC2PA/Screws    | .30                   | 1.13/28.58   | 1.13/28.58  | Radiation Resistant Fluoropolymer | —              | 1,000          |

Temperature Rating: 32° F to 150° F (0° C to 66° C)

\*Synthetic Rubber Adhesive

## Cable Tie Mounting Bases

Great for securing cables!

### One-Piece Mounting Clamp



- Provides a fast and convenient method of securing bundles
- Single-piece design offers reduced installation time and maximized inventory control
- Integral top cover incorporates a unique ratchet design that is fully adjustable and releasable
- Available in a pressure-sensitive adhesive or screw mount design

| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | BASE STYLE       | MAXIMUM HEIGHT (IN.) | CLAMPING AREA          |                         | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|------------------|----------------------|------------------------|-------------------------|----------------|----------------|
|                    |                    |                  |                      | MINIMUM IN./MM         | MAXIMUM IN./MM.         |                |                |
| TC5349A-TB         | TC349A-TB          | SRA* Adhesive    | .57                  | .18 x .24/4.57 x 6.10  | .035 x .24/.89 x 6.10   | 100            | 1,000          |
| TC5350A-TB         | TC350A-TB          | SRA* Adhesive    | .89                  | .20 x .59/5.08 x 14.99 | .45 x .59/11.43 x 14.99 | 100            | 1,000          |
| TC5350-TB          | TC350-TB           | Screw Mount (#8) | .89                  | .20 x .59/5.08 x 14.99 | .45 x .59/11.43 x 14.99 | 100            | 1,000          |

• Natural nylon color.

For adhesive-back bases, temperature rating is 32° F to 150° F (0° C to 66° C)

\*Synthetic Rubber Adhesive

For non-adhesive-back bases, temperature rating is -40° F to 185° F (-40° C to 85° C)

Product Base is .94" x .94" (23.88 x 23.88 mm)

Simple to install!

### Snap-In Mounting Base for Preassembled Ties



Hole for #6 screw



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAX. TIE WIDTH ACCOM. | LENGTH IN./MM. | WIDTH IN./MM. | MATERIAL  | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|-----------------|-----------------------|----------------|---------------|-----------|----------------|----------------|
| TC5353A            | TC353A             | SRA* Adhesive   | .190                  | 2.00/50.80     | 1.00/25.40    | Nylon 6/6 | 25             | 500            |
| —                  | TC353              | TC2PA/Screws    | .190                  | 2.00/50.80     | 1.00/25.40    | Nylon 6/6 | —              | 500            |

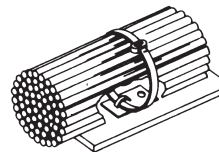
Natural nylon color.

Temperature Rating: 32° F to 150° F (0° C to 66° C).

\*Synthetic Rubber Adhesive.

Great for securing cables!

### Aluminum Mounting Plates



| BULK PKG. CAT. NO. | MOUNTING METHOD | WIDTH ACCOM. | MAX. TIE LENGTH IN./MM. | WIDTH IN./MM. | MATERIAL | BULK PKG. QTY. |
|--------------------|-----------------|--------------|-------------------------|---------------|----------|----------------|
| TC105              | TC2PA/Screws    | .190         | 1.00/25.40              | .50/12.70     | Aluminum | 1,000          |
| TC824-TB           | TC2PA           | .190         | 1.38/34.93              | .38/.38       | Aluminum | 1,000          |
| 650-41349*         | TC2PA/Screws    | .190         | 1.38/34.93              | .38/.38       | Aluminum | 1,000          |

Temperature Rating: 32° F to 150° F (0° C to 66° C).

\*650-41349 has two holes for mounting.

Super strong adhesive!

### Mounting Base Adhesive



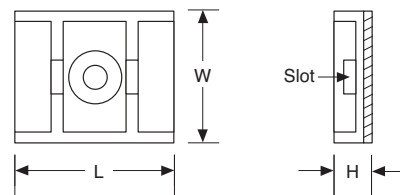
| STD. PKG. CAT. NO. | DESCRIPTION                                      | STD. PKG. QTY. |
|--------------------|--------------------------------------------------|----------------|
| TC2PA              | Consists of one tube each adhesive and activator | 1              |

## Cable Tie Mounting Bases

Accepts cable ties up to 50-lb. (222N) tensile strength (miniature through standard)!

### Adhesive Mounting Cradle

- Supplied on closed cell foam with synthetic rubber-based adhesive
- Use #6 self-tapping screw for added strength if desired



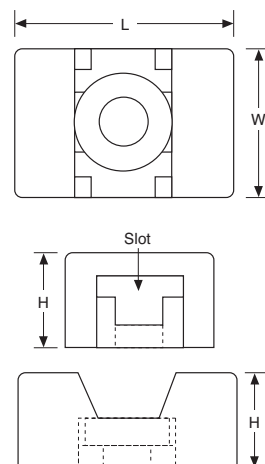
| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MATERIAL          | H HEIGHT IN./MM. | L LENGTH IN./MM. | W WIDTH IN./MM. | SLOT HEIGHT IN./MM. | SLOT WIDTH IN./MM. | MOUNT METHOD  | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|-------------------|------------------|------------------|-----------------|---------------------|--------------------|---------------|----------------|----------------|
| MCNY-1250-9-C      | MCNY-1250-9-D      | Natural Nylon 6.6 | .285/7.24        | 1.250/31.75      | 1.000/25.4      | .090/2.29           | .300/7.62          | SRA Adhesive* | 100            | 500            |

\*Synthetic Rubber Adhesive

Fluoropolymer available for harsh environments!

### Two-Way Screw Mount

- SMNY-001 accepts cable ties to 50-lb. (222N) tensile strength (miniature through standard size)
- SMNY-002 accepts cable ties to 120-lb. (533N) tensile strength (miniature through heavy-duty size)
- Use #4, #6, #8, or #10 machine screw (as referenced)



| BULK PKG. CAT. NO. | MATERIAL                                  | H HEIGHT IN./MM. | L LENGTH IN./MM. | W WIDTH IN./MM. | SLOT HEIGHT IN./MM. | SLOT WIDTH IN./MM. | MOUNT METHOD  | BULK PKG. QTY. |
|--------------------|-------------------------------------------|------------------|------------------|-----------------|---------------------|--------------------|---------------|----------------|
| SMNY-000-9-D       | Natural Nylon 6.6                         | .27/6.86         | .57/14.48        | .34/8.64        | .07/1.78            | .12/3.10           | #4 Screw      | 500            |
| SMTZ-001-9-D       | Radiation-Resistant Fluoropolymer (green) | .28/7.11         | .60/15.24        | .39/9.77        | .06/1.52            | .20/5.08           | #6, #8 Screw  | 500            |
| SMNY-002-9-D       | Natural Nylon 6.6                         | .39/9.90         | .88/22.22        | .63/15.87       | .09/2.29            | .33/8.26           | #8, #10 Screw | 500            |
| SMTZ-002-9-D       | Radiation-Resistant Fluoropolymer (green) | .39/9.90         | .88/22.22        | .63/15.87       | .09/2.29            | .33/8.26           | #8, #10 Screw | 500            |
| SMNY-001-0-D       | Heat-Stabilized Black Nylon               | .28/7.11         | .60/15.24        | .39/9.77        | .06/1.52            | .20/5.08           | #6, #8 Screw  | 500            |
| SMNY-002-0-D       | Heat-Stabilized Black Nylon               | .39/9.90         | .88/22.22        | .63/15.87       | .09/2.29            | .33/8.26           | #8, #10 Screw | 500            |

SMNY series for use in temperatures ranging from -40° F to 221° F (-40° C to 105° C).  
SMTZ series for use in temperatures ranging from -50° F to 302° F (-45° C to 150° C).



## Cable Tie Mounting Bases

### Saddle Support Base

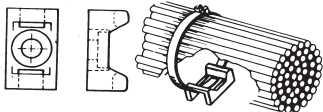
This mounting base provides a saddle for the wire run. Ty-Rap® tie is threaded under bundle and tied in usual manner.

**NOTE:** For additional materials, see Technical Services.

TC5141



TC5142



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAXIMUM TIE WIDTH ACCOM. | WIDTH IN./MM. | LENGTH IN./MM. | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|-----------------|--------------------------|---------------|----------------|----------------|----------------|
| —                  | <b>TC140</b>       | #4 Pan Head     | .091                     | .344/8.74     | .563/14.30     | —              | 500            |
| <b>TC5141</b>      | <b>TC141*</b>      | #6 Pan Head     | .190                     | .439/11.15    | .672/17.07     | 100            | 500            |
| <b>TC5142</b>      | <b>TC142</b>       | #10 Pan Head    | .301                     | .563/14.30    | .922/23.42     | 100            | 500            |

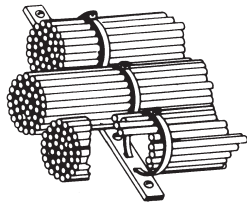
\* Add suffix FR for flame-retardant material (TC141 only).

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### Multiple-Bundle Mounting Strips

These nylon mounting strips for parallel installation of wire bundles can accommodate up to six closely spaced bundles.



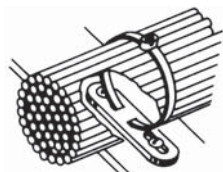
| STD. PKG. CAT. NO. | MAXIMUM MOUNTING METHOD | TIE WIDTH ACCOM. | WIDTH IN./MM. | LENGTH IN./MM. | CAPACITY (BUNDLES) | MIL. STD. PART NO. | BULK PKG. QTY. |
|--------------------|-------------------------|------------------|---------------|----------------|--------------------|--------------------|----------------|
| <b>TC1101</b>      | #6 Screws               | .190             | .50/12.70     | 1.75/44.45     | 1                  | MS3339-1           | 100            |
| <b>TC1102</b>      | #6 Screws               | .190             | .50/12.70     | 3.00/76.20     | 2                  | MS3339-2           | 100            |
| <b>TC1103</b>      | #6 Screws               | .190             | .50/12.70     | 4.25/107.95    | 3                  | MS3339-3           | 100            |
| <b>TC1104</b>      | #6 Screws               | .190             | .50/12.70     | 5.50/139.70    | 4                  | MS3339-4           | 100            |
| <b>TC1105</b>      | #6 Screws               | .190             | .50/12.70     | 6.75/171.45    | 5                  | MS3339-5           | 100            |
| <b>TC1112</b>      | #6 Screws               | .301             | .63/15.88     | 9.60/243.84    | 6                  | MS3339-11          | 100            |
| <b>TC1113</b>      | #6 Screws               | .301             | .63/15.88     | 2.10/53.34     | 1                  | MS3339-6           | 100            |
| <b>TC1114</b>      | #6 Screws               | .301             | .63/15.88     | 3.60/91.44     | 2                  | MS3339-7           | 100            |
| <b>TC1115</b>      | #6 Screws               | .301             | .63/15.88     | 5.10/129.54    | 3                  | MS3339-8           | 100            |
| <b>TC1116</b>      | #6 Screws               | .301             | .63/15.88     | 6.60/167.64    | 4                  | MS3339-9           | 100            |
| <b>TC1117</b>      | #6 Screws               | .301             | .63/15.88     | 8.10/205.74    | 5                  | MS3339-10          | 100            |

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Provides a mounting range for bundles from 1/4" through 4" in diameter!

### Single-Bundle Mounting Base



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAXIMUM TIE WIDTH ACCOM. IN./MM. | WIDTH IN./MM. | LENGTH IN./MM. | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|-----------------|----------------------------------|---------------|----------------|----------------|----------------|
| —                  | <b>TC101</b>       | #10 Screws      | .190/4.83                        | .500/12.7     | 2.00/50.80     | —              | 1,000          |
| <b>TC503</b>       | <b>TC103</b>       | 1/4" Screws     | .301/7.65                        | .625/15.88    | 3.08/78.23     | 100            | 500            |

The TC101 and TC103 nylon bases provide a mounting range for bundles from 1/4" through 4" in diameter.

One mounting hole is slotted to permit adjustment of the bundle position up to the time of actual bundle installation.

Natural nylon color.

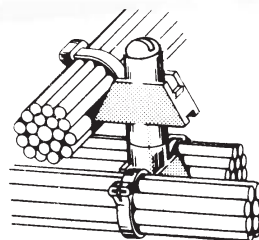
For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

# Ty-Rap®

## Cable Tie Mounting Bases

Permits vertical stacking!

### Ty-Rap® Mounting Blocks

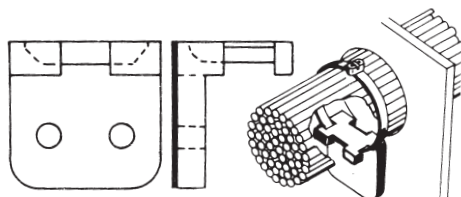


| BULK PKG.<br>CAT. NO. | MOUNTING<br>HOLE SIZE | TIE WIDTH<br>ACCOM. | MAXIMUM<br>WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | BULK<br>PKG. QTY. |
|-----------------------|-----------------------|---------------------|-----------------------------|-------------------|-------------------|
| TC115-TB              | #10                   | .190/4.83           | .47/11.91                   | 1.00/25.40        | 1,000             |

Mounting blocks permit vertical stacking and can be used in any direction.  
Natural nylon color.  
For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Meets military specs as a support in bulkheads and walls!

### Right-Angle Bundle Support



| BULK PKG.<br>CAT. NO. | TIE WIDTH<br>ACCOM. | MAXIMUM<br>WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | BULK<br>PKG. QTY. |
|-----------------------|---------------------|-----------------------------|-------------------|-------------------|
| TC109                 | .19/4.83            | .56/14.30                   | .44/11.13         | 200               |
| TC106                 | .30/7.62            | 1.00/25.40                  | 1.00/25.40        | 1,000             |

This style meets Military Specification requirements as a support at holes in bulkheads and walls. (MS3341)  
Natural nylon color.  
For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Mount bundles on either side!

### Ty-Rap® Stand-Off Brackets

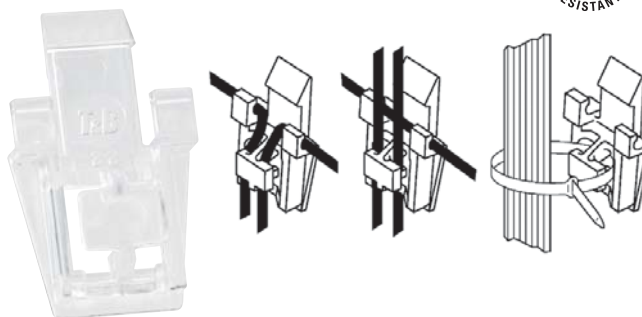


| STD. PKG.<br>CAT. NO.   | MAXIMUM<br>TIE WIDTH<br>ACCOM. | WIDTH<br>IN./MM. | LENGTH<br>IN./MM. | STD.<br>PKG. QTY. |
|-------------------------|--------------------------------|------------------|-------------------|-------------------|
| TC375                   | .19/4.83                       | .75/19.05        | 3.65/92.71        | 100               |
| TC375X<br>(WEATHERABLE) | .19/4.83                       | .75/19.05        | 3.65/92.71        | 100               |
| TC376                   | .19/4.83                       | .67/17.01        | 1.75/44.45        | 100               |

These brackets permit bundles to be mounted on either side. They also serve as means to raise bundles off the surface.  
Natural nylon color.  
For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).  
Weatherable nylon is black.

Weather resistant and transparent!

### Aluminum Siding Clip



| STD. PKG.<br>CAT. NO. | WIRE<br>ACCOMMODATION                    | STD.<br>PKG. QTY. |
|-----------------------|------------------------------------------|-------------------|
| TC201                 | 1/8" Diameter Wire (2-pair station wire) | 50                |

Material:

- Transparent — Color and texture of siding shows through.
- Material — Weather-resistant grade polycarbonate.
- Designed to accommodate PITTSBURG INTERLOCK metal siding.
- Accommodates wires both vertically and/or horizontally.
- Provision for utilizing Ty-Rap® cable ties to secure large diameter bundles.

Thomas & Betts

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

Technical Services  
Tel: 888.862.3289

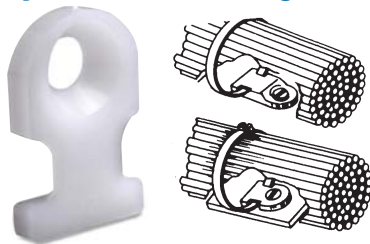
## Cable Tie Mounting Bases



Ideal for high-density packaging!

### Low-Profile Two-Way Miniature Mounting Bases

- Simply slip Ty-Rap® cable tie under slot in fastened mount, and attach bundle



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAXIMUM TIE WIDTH ACCOM. IN./MM. | WIDTH IN./MM. | LENGTH IN./MM. | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|-----------------|----------------------------------|---------------|----------------|----------------|----------------|
| TC502              | TC102              | #8 screw        | .19                              | .50/12.70     | .75/19.05      | 100            | 1,000          |
| —                  | TC104              | #5 screw        | .09                              | .32/8.03      | .41/10.31      | —              | 1,000          |
| —                  | TC804-TB           | #2 screw        | .09                              | .32/8.03      | .40/10.31      | —              | 1,000          |
| —                  | TC112-TB           | #8 screw        | .19                              | .38/9.53      | .75/19.05      | —              | 1,000          |
| —                  | TC812-TB           | #10 screw       | .19                              | .38/9.53      | .75/19.05      | —              | 1,000          |
| —                  | TC814-TB           | #5 screw        | .19                              | .38/9.53      | .75/19.05      | —              | 1,000          |

Threaded insert permits screw to come from outside of mounting surface.  
Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Installs in-line with the wire bundle!

### In-Line Mounting Base



| BULK CAT. NO. | MOUNTING METHOD | WIDTH ACCOM. IN./MM. | MAX. TIE WIDTH IN./MM. | LENGTH IN./MM. | BULK PKG. QTY. |
|---------------|-----------------|----------------------|------------------------|----------------|----------------|
| TC815-TB      | #10 screws      | .30/7.62             | .75/19.05              | 1.13/28.58     | 500            |

A standard 2-hole base that installs in-line with the wire bundle that conceals it.  
Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### Miniature Base



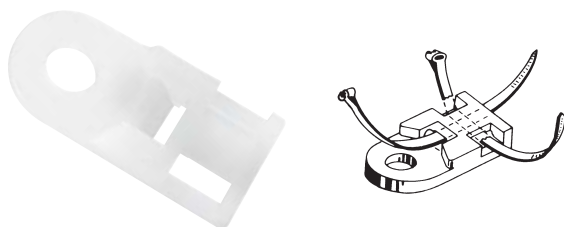
| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAX. TIE WIDTH ACCOM. IN./MM. | LENGTH IN./MM. | WIDTH IN./MM. | MATERIAL  | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|-----------------|-------------------------------|----------------|---------------|-----------|----------------|----------------|
| —                  | TC817-TB           | TC2PA           | .19                           | .44/11.10      | .44/11.10     | Nylon 6/6 | —              | 1,000          |

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Handles ties installed in either direction!

### Low-Profile Four-Way Mounting Base



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING METHOD | MAXIMUM TIE WIDTH ACCOM. IN./MM. | WIDTH IN./MM. | LENGTH IN. | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|-----------------|----------------------------------|---------------|------------|----------------|----------------|
| —                  | TC826-TB           | #8 screw        | .19                              | .50/12.70     | 1/25.40    | —              | 1,000          |
| TC5828             | TC828-TB           | #8 screw        | .19                              | .39/9.91      | .88/22.23  | 100            | 1,000          |

The TC826-TB mounting base can be used to tie bundles running parallel or perpendicular to length of base.

The TC828-TB mounting plate also handles ties installed in either direction and is somewhat smaller than TC826.

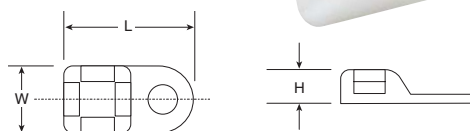
Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Four-way screw mount for cable ties up to 50-lb. (222 N) tensile strength!

### Four-Way Mount

- Mount with #6 or #8 screws
- Available in 6.6 natural nylon



| BULK PKG. CAT. NO. | H IN./MM. | L IN./MM. | W IN./MM. | SLOT W IN./MM. | MOUNT SCR | BULK PKG. QTY. |
|--------------------|-----------|-----------|-----------|----------------|-----------|----------------|
| SMNY-220-9-D       | .23/5.84  | .95/25.13 | .50/12.70 | .22/5.59       | #6, #8    | 500            |

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).



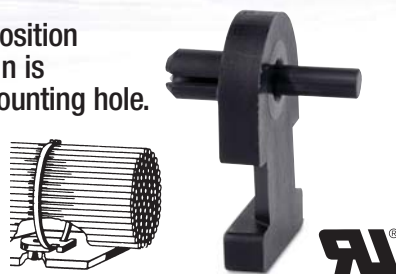


Ty-Rap®

## Cable Tie Mounting Bases

Firmly locks into position when projecting pin is pushed into the mounting hole.

## Self-Riveting Base



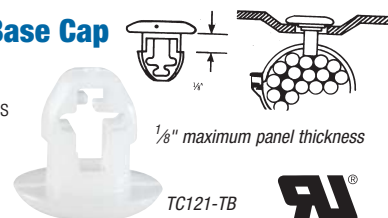
| BULK PKG. CAT. NO. | MOUNTING HOLE SIZE | MAX. TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | MATERIAL           | BULK PKG. QTY. |
|--------------------|--------------------|-----------------------|--------------|---------------|--------------------|----------------|
| TC116-TB           | .146               | .190                  | .5/12.7      | .75/19.05     | Nylon 6.6 (Red)    | 1,000          |
| TC116-0            | .146               | .190                  | .5/12.7      | .75/19.05     | Nylon 6.6 (Black)  | 1,000          |
| TC118-TB           | .169               | .190                  | .5/12.7      | .75/19.05     | Nylon 6.6 (Blue)   | 1,000          |
| TC120              | .196               | .190                  | .5/12.7      | .75/19.05     | Nylon 6.6 (Yellow) | 1,000          |

Slip tie under base to attach bundle.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

## Snap-In Mounting Base Cap

Snap-in, premountable base for securing wire bundles in cabinets maintains the attractive external appearance of the equipment housing — TC121 Snap-Cap.



| BULK PKG. CAT. NO. | MOUNTING HOLE SIZE | MAX. TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | MATERIAL                        | BULK PKG. QTY. |
|--------------------|--------------------|-----------------------|--------------|---------------|---------------------------------|----------------|
| TC121-TB           | .250               | .190                  | .445/11.30   | .415/10.54    | Nylon 6.6                       | 1,000          |
| TCH121†            | .250               | .190                  | .445/11.30   | .415/10.54    | Nylon 6.6 Heat Stabilized       | 1,000          |
| TCH121-0†          | .250               | .190                  | .445/11.30   | .415/10.54    | Nylon 6.6 Black Heat Stabilized | 1,000          |

† Not UL Recognized. Natural nylon color. Nylon 6.6 for use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Heat stabilized for use in temperatures ranging from -40° F to 221° F (-40° C to 105° C).

## STRONG — up to 50-lb. tensile strength!

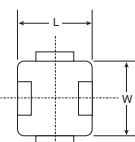
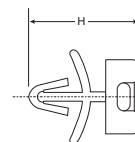
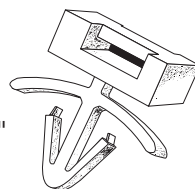
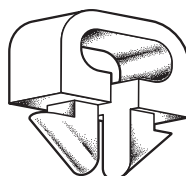
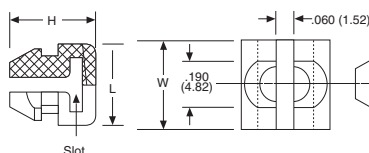
## Push Mounts

## PMNY-185

- Versatile push mount for cable ties to 50-lb. tensile strength
- For use in .187"/.192" mounting hole for panel thickness .030" to .080"

## PMNY-245

- Accepts cable ties to 50-lb. tensile (miniature through standard)
- For use in .250" mounting hole for maximum panel thickness of .062"

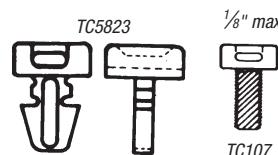


| BULK PKG. CAT. NO. | MATERIAL | H HEIGHT IN./MM. | L LENGTH IN./MM. | W WIDTH IN./MM. | SLOT HEIGHT IN./MM. | SLOT WIDTH IN./MM. | BULK PKG. QTY. |
|--------------------|----------|------------------|------------------|-----------------|---------------------|--------------------|----------------|
| PMNY-185-9-D       | Nylon    | .64/16.26        | .43/10.92        | .43/10.92       | .07/1.65            | .07/1.65           | 500            |
| PMNY-254-9-C       | Nylon    | .36/9.02         | .32/8.13         | .32/8.13        | .05/1.27            | .22/5.59           | 100            |
| PMNY-245-9-D       | Nylon    | .36/9.02         | .32/8.13         | .32/8.13        | .05/1.27            | .22/5.59           | 500            |

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

## Push-In and Bolted Bases



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MOUNTING HOLE SIZE | MAXIMUM TIE WIDTH ACCOM. | WIDTH IN./MM | LENGTH IN./MM | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|--------------------|--------------------------|--------------|---------------|----------------|----------------|
| TC5823             | TC823-TB           | ¼                  | .190                     | .44/11.13    | .63/15.88     | 100            | 1,000          |
| —                  | TC107†             | #10-32 thd         | .190                     | .44/11.13    | .69/15.88     | —              | 1,000          |

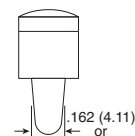
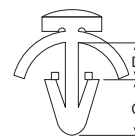
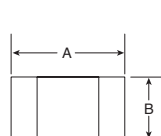
† Not UL Recognized.

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

## Snap Mounts

- For panel thicknesses from .060" to .150" to hold separate pieces of material together
- For MSNY-166-0-M used with W4 or N4 Series Cable Clamps, allowable panel thickness is .030" to .050"
- For MSNY-187-0-M used with w6 or N6 Series Cable Clamps, allowable panel thickness is .030" to .050".



| CAT. NO.     | MATERIAL       | A IN./MM   | B IN./MM  | C IN./MM  | D IN./MM  | BULK PKG. QTY. |
|--------------|----------------|------------|-----------|-----------|-----------|----------------|
| MSNY-166-0-M | UV Black Nylon | .49/12.45  | .31/7.87  | .28/7.11  | .18/4.57  | 1,000          |
| MSNY-187-0-M | UV Black Nylon | .625/15.87 | .343/8.73 | .281/7.14 | .210/5.33 | 1,000          |

Thomas &amp; Betts

www.tnb.com

United States

Tel: 901.252.8000

800.816.7809

Fax: 901.252.1354

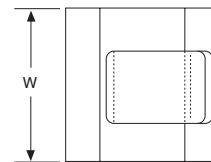
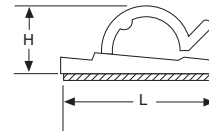
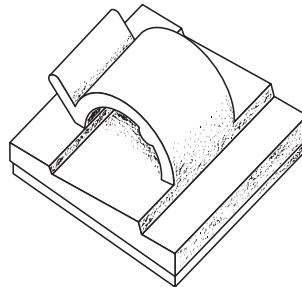
Technical Services

Tel: 888.862.3289

Versatile adhesive clips keep cable paths organized.

### Round Adhesive Clips

- Diverse cable clamps for bundle diameters from .160" to .620"
- Mounted on a rubber-based closed cell foam adhesive
- Flexible center tang for removal or addition of cables



| BULK PKG.<br>CAT. NO. | MATERIAL | HEIGHT<br>IN./MM. | H<br>LENGTH<br>IN./MM. | L<br>WIDTH<br>IN./MM. | W<br>MAXIMUM<br>BUNDLE | MOUNTING<br>METHOD    | BULK<br>PKG.<br>QTY. |
|-----------------------|----------|-------------------|------------------------|-----------------------|------------------------|-----------------------|----------------------|
| RANY-160-9-D          | Nylon    | .250/6.35         | .630/16.0              | .580/14.73            | .160/4.06              | Rubber-based adhesive | 500                  |
| RANY-280-9-D          | Nylon    | .410/10.41        | 1.000/25.40            | 1.000/25.40           | .280/7.11              | Rubber-based adhesive | 500                  |
| RANY-530-9-D          | Nylon    | 15.75/.620        | 1.000/25.40            | 1.000/25.40           | .530/13.46             | Rubber-based adhesive | 500                  |
| RANY-620-9-D          | Nylon    | 14.22/.560        | 1.250/31.75            | 28.45                 | .620/15.75             | Rubber-based adhesive | 500                  |

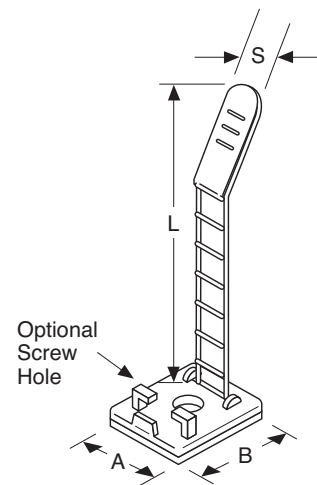
Natural nylon color.

Adhesive for use in temperatures ranging from 32° F to 150° F (0° C to 66° C).

Release and refasten with ease — in three adjustable sizes!

### Adjustable Cable Clamps

- Three sizes for bundles from .118" to .984"
- Ladder-style fastener is easily released and refastened
- Supplied on a rubber-based closed cell foam adhesive
- Optional screw hole for #4 or #5 flat head screw



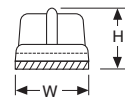
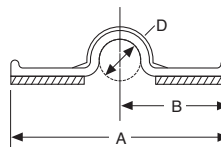
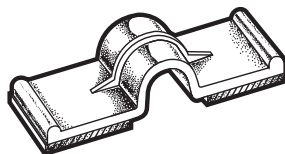
| STD. PKG.<br>CAT. NO. | MATERIAL      | A<br>HEIGHT<br>IN./MM | B<br>LENGTH<br>IN./MM | S<br>WIDTH<br>IN./MM | L MAXIMUM<br>BUNDLE<br>IN./MM | APPLIED<br>WIRE RANGE<br>IN./MM | SCREW HOLE<br>DIAMETER<br>IN./MM | STD.<br>PKG.<br>QTY. |
|-----------------------|---------------|-----------------------|-----------------------|----------------------|-------------------------------|---------------------------------|----------------------------------|----------------------|
| ULNY-013-8-C          | Gray Nylon    | .709/18.00            | .984/24.99            | .314/7.98            | 2.340/59.44                   | .118 - .500/3.0 - 12.7          | .110/2.79                        | 100                  |
| ULNY-013-9-C          | Natural Nylon | .709/18.00            | .984/24.99            | .314/7.98            | 2.340/59.44                   | .118 - .500/3.0 - 12.7          | .110/2.79                        | 100                  |
| ULNY-018-8-C          | Gray Nylon    | .827/21.00            | 1.180/29.97           | .472/11.99           | 3.120/79.25                   | .197 - .827/5.0 - 21.0          | .110/2.79                        | 100                  |
| ULNY-023-8-C          | Gray Nylon    | .984/24.99            | 1.380/35.05           | .551/14.00           | 3.370/79.25                   | .275 - .984/7.0 - 25.0          | .135/3.43                        | 100                  |

Adhesive for use in temperatures ranging from 32° F to 150° F (0° C to 66° C).

Choose from four sizes to accommodate bundles up to 1/2".

### Press Clips

- Clips are provided on a rubber-based closed cell foam adhesive
- Stocked in 6.6 natural nylon color. Contact factory for availability in special materials



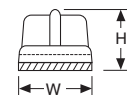
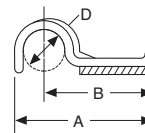
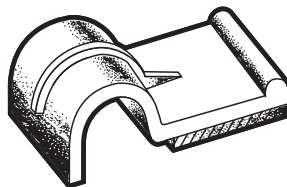
| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MATERIAL | D<br>DIAMETER<br>IN./MM. | A<br>IN./MM. | B<br>IN./MM. | H<br>IN./MM. | W<br>IN./MM. | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|----------|--------------------------|--------------|--------------|--------------|--------------|----------------|----------------|
| PCNY-125-9-C       | PCNY-125-9-D       | Nylon    | .13/3.30                 | .76/19.30    | .38/9.65     | .21/5.33     | .38/9.65     | 100            | 500            |
| PCNY-250-9-C       | PCNY-250-9-D       | Nylon    | .25/6.35                 | 1.38/35.05   | .69/17.53    | .32/8.13     | .50/12.70    | 100            | 500            |
| PCNY-375-9-C       | PCNY-375-9-D       | Nylon    | .38/9.65                 | 1.47/37.34   | .74/18.80    | .44/11.176   | .63/16.00    | 100            | 500            |
| PCNY-500-9-C       | PCNY-500-9-D       | Nylon    | .50/12.70                | 1.59/40.39   | .80/20.32    | .59/15.00    | .75/19.05    | 100            | 500            |

For use in temperatures ranging from 32° F to 150° F (0° C to 66° C).

Eliminate the dangers of loose cables with these clips.

### Half Press Clips

- 4 sizes to accommodate bundles up to 1/2"
- Clips are provided on a rubber-based closed cell foam adhesive
- Stocked in 6.6 natural nylon color. Contact factory for availability in special materials



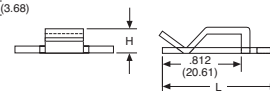
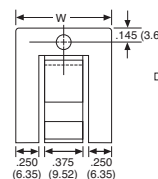
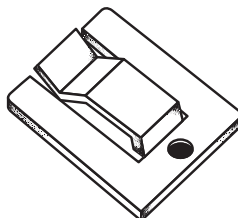
| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MATERIAL | D<br>DIAMETER<br>IN./MM. | A<br>IN./MM. | B<br>IN./MM. | H<br>IN./MM. | W<br>IN./MM. | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|----------|--------------------------|--------------|--------------|--------------|--------------|----------------|----------------|
| HCNY-125-9-C       | HCNY-125-9-M       | Nylon    | .13/3.30                 | .49/12.45    | .38/9.65     | .18/4.57     | .38/9.65     | 100            | 1,000          |
| HCNY-250-9-C       | HCNY-250-9-M       | Nylon    | .25/6.35                 | .87/22.10    | .69/17.53    | .33/8.38     | .50/12.70    | 100            | 1,000          |
| HCNY-375-9-C       | HCNY-375-9-M       | Nylon    | .38/9.65                 | .98/25.90    | .75/19.05    | .42/10.67    | .63/16.00    | 100            | 1,000          |
| HCNY-500-9-C       | HCNY-500-9-M       | Nylon    | .50/12.70                | 1.11/28.20   | .82/20.83    | .56/14.22    | .75/19.05    | 100            | 1,000          |

For use in temperatures ranging from 32° F to 150° F (0° C to 66° C).

Flat design provides an attractive, yet discreet look.

### Flat Cable Screw Clip

- Flat ribbon cable clamp with mounting hole for #8 screw
- Stocked in 6.6 natural nylon color
- Flexible center tang enables easy removal and replacement of desired cable

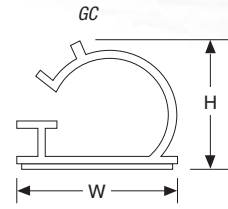
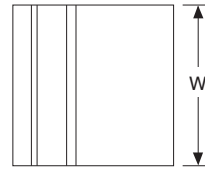
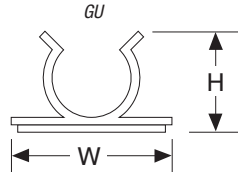


| STD. PKG. CAT. NO. | MATERIAL | HEIGHT<br>IN./MM. | H<br>LENGTH<br>IN./MM. | L<br>WIDTH<br>IN./MM. | W<br>MOUNTING<br>METHOD | STD. PKG. QTY. |
|--------------------|----------|-------------------|------------------------|-----------------------|-------------------------|----------------|
| FSNY-812-9-C       | Nylon    | .25/6.35          | 1.19/30.23             | 1.00/25.40            | #8 Screw                | 100            |

For use in temperatures ranging from 32° F to 150° F (0° C to 66° C).

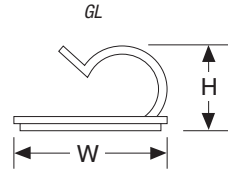
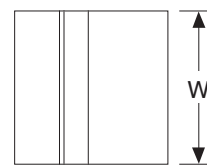


### Adhesive Cable Clips



| STD. PKG. CAT. NO. | MAX. BUNDLE WIDTH ACCEPTED | H IN./MM. | L IN./MM.  | W IN./MM.  | MOUNTING METHOD | STD. PKG. QTY. |
|--------------------|----------------------------|-----------|------------|------------|-----------------|----------------|
| GC250RT            | .25                        | .39/9.91  | .75/19.05  | .75/19.05  | Adhesive        | 25             |
| GC500RT            | .50                        | .63/16.00 | 1.00/25.40 | 1.00/25.40 | Adhesive        | 25             |
| GL250RT            | .25                        | .76/19.30 | 1.00/25.40 | 1.00/25.40 | Adhesive        | 25             |
| GL500RT            | .50                        | .76/19.30 | 1.00/25.40 | 1.00/25.40 | Adhesive        | 25             |
| GU250RT            | .25                        | .47/11.94 | .75/19.05  | .75/19.05  | Adhesive        | 25             |
| GU500RT            | .50                        | .69/17.53 | .75/19.05  | .75/19.05  | Adhesive        | 25             |

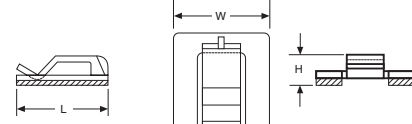
GC series are gray PVC. GL and GU series are natural nylon color.  
For use in temperatures ranging from 32° F to 150° F (0° C to 66° C).



Low-profile clip for single or multiple layers of flat ribbon cable.

### Flat Adhesive Clips

- Supplied on a rubber-based closed cell foam adhesive
- Flexible center tang for removal or addition of cables
- Stocked in 6.6 natural nylon color



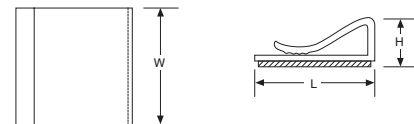
| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MATERIAL | H HEIGHT IN./MM. | L LENGTH IN./MM. | W WIDTH IN./MM. | MOUNTING METHOD | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|----------|------------------|------------------|-----------------|-----------------|----------------|----------------|
| FANY-812-9-C       | FANY-812-9-D       | Nylon    | .28/7.11         | 1.00/25.40       | 1.00/25.40      | Adhesive        | 100            | 500            |

Natural nylon color.  
For use in temperatures ranging from 32° F to 150° F (0° C to 66° C).

Adhesive eliminates need for tools when mounting clips.

### Flat PVC Clips

- Low-profile clip for single or multiple layers of flat ribbon cable.
- "Single-Cut" on a rubber-based closed cell foam adhesive
- Gray PVC
- UL Flammability 94 V-0 (clip)



| STD. PKG. CAT. NO. | BULK PKG. CAT. NO. | MATERIAL | H HEIGHT IN./MM. | L LENGTH IN./MM. | W WIDTH IN./MM. | MOUNTING METHOD | STD. PKG. QTY. | BULK PKG. QTY. |
|--------------------|--------------------|----------|------------------|------------------|-----------------|-----------------|----------------|----------------|
| FRPV-1000-8-C      | FRPV-1000-8-D      | Gray PVC | .42/10.67        | 1.06/26.92       | 1.00/25.40      | Adhesive        | 100            | 500            |

For use in temperatures ranging from 32° F to 150° F (0° C to 66° C).

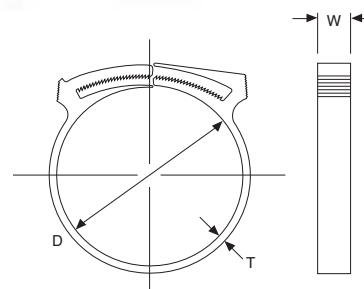
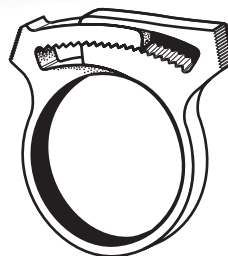
Ty-Rap®

## Cable Clamps &amp; Clips

Ideal for assembly applications.

## Adjustable Cable Clamp

- 16 sizes for bundle diameters to 2.38"
- Removable and reusable. Twist by hand or with pliers to remove
- Stocked in weatherable Nylon. 100 pieces per package
- Request samples for testing to your application. Tested to 250 psi



Black.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

| STD. PKG. CAT. NO. | D<br>NOMINAL<br>DIAMETER<br>IN./MM. | D1<br>CLOSED<br>DIAMETER<br>IN./MM. | T<br>THICKNESS<br>IN./MM. | W<br>WIDTH<br>IN./MM. | STD. PKG. QTY. |
|--------------------|-------------------------------------|-------------------------------------|---------------------------|-----------------------|----------------|
| GGNY-344-O-C       | .41/10.41                           | .34/8.64                            | .07/1.78                  | .22/5.59              | 100            |
| GGNY-406-O-C       | .47/11.94                           | .41/10.41                           | .07/1.78                  | .22/5.59              | 100            |
| GGNY-468-O-C       | .53/13.46                           | .47/11.94                           | .07/1.78                  | .22/5.59              | 100            |
| GGNY-531-O-C       | .59/14.99                           | .53/13.46                           | .07/1.78                  | .22/5.59              | 100            |
| GGNY-593-O-C       | .66/16.76                           | .59/14.99                           | .07/1.78                  | .22/5.59              | 100            |
| GGNY-672-O-C       | .81/20.57                           | .67/17.02                           | .07/1.78                  | .22/5.59              | 100            |
| GGNY-750-O-C       | .88/22.35                           | .75/19.05                           | .07/1.78                  | .22/5.59              | 100            |
| GGNY-875-O-C       | 1/355.60                            | .88/22.35                           | .07/1.78                  | .22/5.59              | 100            |

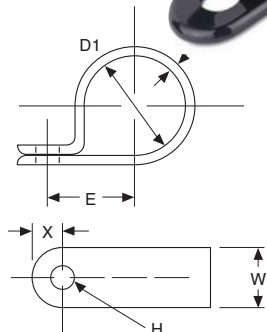
| STD. PKG. CAT. NO. | D<br>NOMINAL<br>DIAMETER<br>IN./MM. | D1<br>CLOSED<br>DIAMETER<br>IN./MM. | T<br>THICKNESS<br>IN./MM. | W<br>WIDTH<br>IN./MM. | STD. PKG. QTY. |
|--------------------|-------------------------------------|-------------------------------------|---------------------------|-----------------------|----------------|
| GGNY-953-O-C       | .95/24.13                           | .41/10.41                           | .07/1.78                  | .31/7.87              | 100            |
| GGNY-1031-O-C      | 1.81/45.97                          | 1.03/26.16                          | .07/1.78                  | .31/7.87              | 100            |
| GGNY-1250-O-C      | 1.44/36.58                          | 1.25/31.75                          | .07/1.78                  | .36/9.14              | 100            |
| GGNY-1406-O-C      | 1.63/41.40                          | 1.41/35.81                          | .07/1.78                  | .36/9.14              | 100            |
| GGNY-1593-O-C      | 1.81/45.97                          | 1.59/40.39                          | .07/1.78                  | .36/9.14              | 100            |
| GGNY-1687-O-C      | 1.91/48.51                          | 1.34/34.04                          | .07/1.78                  | .36/9.14              | 100            |
| GGNY-1875-O-C      | 2.13/54.10                          | 1.88/47.75                          | .07/1.78                  | .40/10.16             | 100            |
| GGNY-2125-O-C      | 2.75/69.85                          | 2.13/54.10                          | .07/1.78                  | .40/10.16             | 100            |

Choose the diameter you need to clamp a specific-sized cable.

## Plain Edge Cable Clamps

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

- Fully radiused inside edges with size markings in inches and millimeters for easy identification
- Stocked in natural and black nylon 6.6
- Plain edge cable clamps are designed to perform to NAS-1397P
- 18 diameters and 2 widths with mounting holes for #8 and #10 screws
- Replace "-M" or "-D" with "-C" for 100 pack



| WHITE CAT. NO. | BLACK CAT. NO. | D1<br>CLOSED DIA.<br>IN./MM. | E<br>IN./MM. | T<br>THICKNESS<br>IN./MM. | W<br>WIDTH<br>IN./MM. | H<br>MOUNTING<br>HOLE<br>SIZE | X<br>IN./MM. | BULK<br>PKG.<br>QTY. |
|----------------|----------------|------------------------------|--------------|---------------------------|-----------------------|-------------------------------|--------------|----------------------|
| N4NY-002-9-M   | N4NY-002-0-M   | .13/3.18                     | .34/8.71     | .05/1.27                  | .38/9.53              | #8                            | .22/5.54     | 1,000                |
| N4NY-003-9-M   | N4NY-003-0-M   | .19/4.47                     | .38/9.60     | .05/1.27                  | .38/9.53              | #8                            | .22/5.54     | 1,000                |
| N4NY-004-9-M   | N4NY-004-0-M   | .25/6.35                     | .42/10.70    | .05/1.27                  | .38/9.53              | #8                            | .22/5.54     | 1,000                |
| N4NY-005-9-M   | N4NY-005-0-M   | .31/7.92                     | .44/11.20    | .05/1.27                  | .38/9.53              | #8                            | .22/5.54     | 1,000                |
| N4NY-006-9-M   | N4NY-006-0-M   | .38/9.53                     | .46/11.79    | .05/1.27                  | .38/9.53              | #8                            | .22/5.54     | 1,000                |
| N4NY-007-9-M   | N4NY-007-0-M   | .44/11.10                    | .50/12.70    | .05/1.27                  | .38/9.53              | #8                            | .22/5.54     | 1,000                |
| N4NY-008-9-M   | N4NY-008-0-M   | .50/12.70                    | .53/13.46    | .05/1.27                  | .38/9.53              | #8                            | .22/5.54     | 1,000                |
| N4NY-002B-9-M  | N4NY-002B-0-M  | .13/3.18                     | .34/8.71     | .05/1.27                  | .38/9.53              | #10                           | .22/5.54     | 1,000                |
| N4NY-003B-9-M  | N4NY-003B-0-M  | .19/4.47                     | .38/9.60     | .05/1.27                  | .38/9.53              | #10                           | .22/5.54     | 1,000                |
| N4NY-004B-9-M  | N4NY-004B-0-M  | .25/6.35                     | .42/10.70    | .05/1.27                  | .38/9.53              | #10                           | .22/5.54     | 1,000                |
| N4NY-005B-9-M  | N4NY-005B-0-M  | .31/7.92                     | .44/11.20    | .05/1.27                  | .38/9.53              | #10                           | .22/5.54     | 1,000                |
| N4NY-006B-9-M  | N4NY-006B-0-M  | .38/9.53                     | .46/11.79    | .05/1.27                  | .38/9.53              | #10                           | .22/5.54     | 1,000                |
| N4NY-007B-9-M  | N4NY-007B-0-M  | .44/11.10                    | .50/12.70    | .05/1.27                  | .38/9.53              | #10                           | .22/5.54     | 1,000                |
| N4NY-008B-9-M  | N4NY-008B-0-M  | .50/12.70                    | .53/13.46    | .05/1.27                  | .38/9.53              | #10                           | .22/5.54     | 1,000                |
| N6NY-004C-9-M  | N6NY-004C-0-M  | .25/6.35                     | .44/11.10    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-005C-9-M  | N6NY-005C-0-M  | .31/7.92                     | .47/12.04    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-006C-9-M  | N6NY-006C-0-M  | .38/9.53                     | .50/12.70    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-007C-9-M  | N6NY-007C-0-M  | .44/11.10                    | .53/13.54    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-008C-9-M  | N6NY-008C-0-M  | .50/12.70                    | .55/14.05    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-009-9-M   | N6NY-009-0-M   | .56/14.27                    | .60/15.32    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-010-9-M   | N6NY-010-0-M   | .63/15.88                    | .63/15.88    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-011-9-M   | N6NY-011-0-M   | .69/17.45                    | .67/16.89    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-012-9-M   | N6NY-012-0-M   | .75/19.05                    | .67/17.75    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-013-9-M   | N6NY-013-0-M   | .81/20.62                    | .77/19.43    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-014-9-M   | N6NY-014-0-M   | .88/22.23                    | .80/20.19    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-016-9-M   | N6NY-016-0-M   | 1.00/25.40                   | .83/21.00    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 1,000                |
| N6NY-018-9-D   | N6NY-018-0-D   | 1.13/28.58                   | .94/23.88    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 500                  |
| N6NY-019-9-D   | N6NY-019-0-D   | 1.19/30.15                   | .96/24.46    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 500                  |
| N6NY-020-9-D   | N6NY-020-0-D   | 1.25/31.75                   | .98/24.90    | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 500                  |
| N6NY-022-9-D   | N6NY-022-0-D   | 1.38/34.93                   | 1.05/26.54   | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 500                  |
| N6NY-024-9-D   | N6NY-024-0-D   | 1.50/38.10                   | 1.11/28.30   | .06/1.52                  | .50/12.70             | #10                           | .22/5.54     | 500                  |

Thomas &amp; Betts

www.tnb.com

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

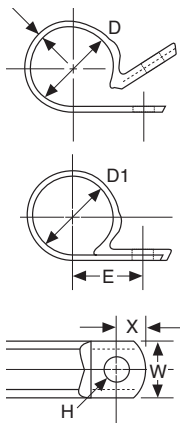
Technical Services  
Tel: 888.862.3289

Ideal for assembly applications.

### Self-Aligning Cable Clamps



- Molded-in saddle washer enhances performance and appearance
- Self-alignment feature makes this clamp ideal for assembly applications
- 14 diameters and 2 widths with mounting holes for #4 through #10 screws
- UL® Flammability W.NY 94 V-2; W.TZ 94 V-0.
- Stocked in natural and heat-stabilized black nylon 6.6, and fluropolymer for harsh environments
- Item numbers molded-in for easy identification
- Replace "M" or "D" with "C" for 100 pack
- Temperature Rating: -40° F to 185° F (-40° C to 85° C); Heat-Stabilized: -40° F to 221° F (-40° C to 105° C); Fluropolymer: -50° F to 302° F (-45° C to 150° C)



| BULK PKG. CAT. NO.            | MATERIAL                    | D<br>NOMINAL<br>DIAMETER<br>IN./MM. | D1<br>CLOSED<br>DIAMETER<br>IN./MM. | E<br>IN./MM. | T<br>THICKNESS<br>IN./MM. | W<br>WIDTH<br>IN./MM. | H<br>HOLE<br>DIAMETER<br>IN./MM. | X<br>IN./MM. | BULK<br>PKG. QTY. |
|-------------------------------|-----------------------------|-------------------------------------|-------------------------------------|--------------|---------------------------|-----------------------|----------------------------------|--------------|-------------------|
| W4NY-125-9-M                  | Natural Nylon               | .13/3.18                            | .11/2.90                            | .33/8.46     | .04/1.02                  | .38/9.53              | .17/4.24                         | .26/6.53     | 1,000             |
| W4NY-187-9-M                  | Natural Nylon               | .19/4.75                            | .17/4.37                            | .36/9.02     | .04/1.02                  | .38/9.53              | .17/4.24                         | .22/5.54     | 1,000             |
| W4NY-250-9-M                  | Natural Nylon               | .25/6.35                            | .23/5.94                            | .38/9.70     | .04/1.02                  | .38/9.53              | .17/4.24                         | .19/4.83     | 1,000             |
| W4NY-312-9-M                  | Natural Nylon               | .31/7.92                            | .30/7.54                            | .42/10.72    | .04/1.02                  | .38/9.53              | .17/4.24                         | .21/5.21     | 1,000             |
| W4NY-375-9-M                  | Natural Nylon               | .38/9.53                            | .36/9.12                            | .45/11.53    | .04/1.02                  | .38/9.53              | .17/4.24                         | .21/5.33     | 1,000             |
| W4NY-500-9-M                  | Natural Nylon               | .50/12.70                           | .48/12.30                           | .49/12.45    | .04/1.02                  | .38/9.53              | .17/4.24                         | .27/6.86     | 1,000             |
| W6NY-187-9-M                  | Natural Nylon               | .19/4.75                            | .17/4.37                            | .38/9.53     | .06/1.52                  | .50/12.70             | .20/5.16                         | .24/6.12     | 1,000             |
| W6NY-250-9-M                  | Natural Nylon               | .25/6.35                            | .23/5.94                            | .41/10.34    | .06/1.52                  | .50/12.70             | .20/5.16                         | .24/6.12     | 1,000             |
| W6NY-312-9-M                  | Natural Nylon               | .31/7.92                            | .30/7.54                            | .45/11.30    | .06/1.52                  | .50/12.70             | .20/5.16                         | .28/6.60     | 1,000             |
| W6NY-375-9-M                  | Natural Nylon               | .38/9.53                            | .36/9.12                            | .48/12.30    | .06/1.52                  | .50/12.70             | .20/5.16                         | .29/7.39     | 1,000             |
| W6NY-437-9-M                  | Natural Nylon               | .44/11.10                           | .42/10.72                           | .52/13.26    | .06/1.52                  | .50/12.70             | .20/5.16                         | .26/6.68     | 1,000             |
| W6NY-500-9-M                  | Natural Nylon               | .50/12.70                           | .48/12.30                           | .56/14.22    | .06/1.52                  | .50/12.70             | .20/5.16                         | .27/6.91     | 1,000             |
| W6NY-562-9-M                  | Natural Nylon               | .56/14.27                           | .55/13.90                           | .66/16.69    | .06/1.52                  | .50/12.70             | .20/5.16                         | .24/6.00     | 1,000             |
| W6NY-625-9-M                  | Natural Nylon               | .63/15.88                           | .61/15.47                           | .64/16.18    | .06/1.52                  | .50/12.70             | .20/5.16                         | .29/7.37     | 1,000             |
| W6NY-687-9-M                  | Natural Nylon               | .69/17.45                           | .67/17.10                           | .69/17.63    | .06/1.52                  | .50/12.70             | .20/5.16                         | .33/8.31     | 1,000             |
| W6NY-750-9-M                  | Natural Nylon               | .75/19.05                           | .73/18.64                           | .73/18.44    | .06/1.52                  | .50/12.70             | .20/5.16                         | .33/8.28     | 1,000             |
| W6NY-812-9-M                  | Natural Nylon               | .81/20.62                           | .80/20.24                           | .78/19.71    | .06/1.52                  | .50/12.70             | .20/5.16                         | .32/8.20     | 1,000             |
| W6NY-875-9-D                  | Natural Nylon               | .88/22.23                           | .86/21.82                           | .73/18.62    | .06/1.52                  | .50/12.70             | .20/5.16                         | .31/7.87     | 500               |
| W6NY-1000-9-D                 | Natural Nylon               | 1.00/25.40                          | .98/25.00                           | .88/22.38    | .06/1.52                  | .50/12.70             | .20/5.16                         | .29/7.42     | 500               |
| W6NY-1250-9-D                 | Natural Nylon               | 1.25/31.75                          | 1.23/31.17                          | 1.01/25.65   | .06/1.52                  | .50/12.70             | .20/5.16                         | .34/8.61     | 500               |
| W4NY-125-0-M                  | Heat-Stabilized Black Nylon | .13/3.18                            | .11/2.90                            | .33/8.46     | .04/1.02                  | .38/9.53              | .17/4.24                         | .26/6.53     | 1,000             |
| W4NY-187-0-M                  | Heat-Stabilized Black Nylon | .19/4.75                            | .17/4.37                            | .36/9.02     | .04/1.02                  | .38/9.53              | .17/4.24                         | .22/5.54     | 1,000             |
| W4NY-250-0-M                  | Heat-Stabilized Black Nylon | .25/6.35                            | .23/5.94                            | .38/9.70     | .04/1.02                  | .38/9.53              | .17/4.24                         | .19/4.83     | 1,000             |
| W4NY-312-0-M                  | Heat-Stabilized Black Nylon | .31/7.92                            | .30/7.54                            | .42/10.72    | .04/1.02                  | .38/9.53              | .17/4.24                         | .21/5.21     | 1,000             |
| W4NY-375-0-M                  | Heat-Stabilized Black Nylon | .38/9.53                            | .36/9.12                            | .45/11.53    | .04/1.02                  | .38/9.53              | .17/4.24                         | .21/5.33     | 1,000             |
| W4NY-500-0-M                  | Heat-Stabilized Black Nylon | .50/12.70                           | .48/12.30                           | .49/12.45    | .04/1.02                  | .38/9.53              | .17/4.24                         | .27/6.86     | 1,000             |
| W6NY-187-0-M                  | Heat-Stabilized Black Nylon | .19/4.75                            | .17/4.37                            | .38/9.53     | .06/1.52                  | .50/12.70             | .20/5.16                         | .24/6.12     | 1,000             |
| W6NY-250-0-M                  | Heat-Stabilized Black Nylon | .25/6.35                            | .23/5.94                            | .41/10.34    | .06/1.52                  | .50/12.70             | .20/5.16                         | .24/6.12     | 1,000             |
| W6NY-312-0-M                  | Heat-Stabilized Black Nylon | .31/7.92                            | .30/7.54                            | .45/11.30    | .06/1.52                  | .50/12.70             | .20/5.16                         | .28/6.60     | 1,000             |
| W6NY-375-0-M                  | Heat-Stabilized Black Nylon | .38/9.53                            | .36/9.12                            | .48/12.30    | .06/1.52                  | .50/12.70             | .20/5.16                         | .29/7.39     | 1,000             |
| W6NY-437-0-M                  | Heat-Stabilized Black Nylon | .44/11.10                           | .42/10.72                           | .52/13.26    | .06/1.52                  | .50/12.70             | .20/5.16                         | .26/6.68     | 1,000             |
| W6NY-500-0-M                  | Heat-Stabilized Black Nylon | .50/12.70                           | .48/12.30                           | .56/14.22    | .06/1.52                  | .50/12.70             | .20/5.16                         | .27/6.91     | 1,000             |
| W6NY-562-0-M                  | Heat-Stabilized Black Nylon | .56/14.27                           | .55/13.90                           | .66/16.69    | .06/1.52                  | .50/12.70             | .20/5.16                         | .24/6.00     | 1,000             |
| W6NY-625-0-M                  | Heat-Stabilized Black Nylon | .63/15.88                           | .61/15.47                           | .64/16.18    | .06/1.52                  | .50/12.70             | .20/5.16                         | .29/7.37     | 1,000             |
| W6NY-687-0-M                  | Heat-Stabilized Black Nylon | .69/17.45                           | .67/17.10                           | .69/17.63    | .06/1.52                  | .50/12.70             | .20/5.16                         | .33/8.31     | 1,000             |
| W6NY-750-0-M                  | Heat-Stabilized Black Nylon | .75/19.05                           | .73/18.64                           | .73/18.44    | .06/1.52                  | .50/12.70             | .20/5.16                         | .33/8.28     | 1,000             |
| W6NY-812-0-M                  | Heat-Stabilized Black Nylon | .81/20.62                           | .80/20.24                           | .78/19.71    | .06/1.52                  | .50/12.70             | .20/5.16                         | .32/8.20     | 1,000             |
| W6NY-875-0-D                  | Heat-Stabilized Black Nylon | .88/22.23                           | .86/21.82                           | .73/18.62    | .06/1.52                  | .50/12.70             | .20/5.16                         | .31/7.87     | 500               |
| W6NY-1000-0-D                 | Heat-Stabilized Black Nylon | 1.00/25.40                          | .98/25.00                           | .88/22.38    | .06/1.52                  | .50/12.70             | .20/5.16                         | .29/7.42     | 500               |
| W6NY-1250-0-D                 | Heat-Stabilized Black Nylon | 1.25/31.75                          | 1.23/31.17                          | 1.01/25.65   | .06/1.52                  | .50/12.70             | .20/5.16                         | .34/8.61     | 500               |
| <b>For harsh environments</b> |                             |                                     |                                     |              |                           |                       |                                  |              |                   |
| W4TZ-125-5-D                  | Fluropolymer (Aqua)         | .13/3.18                            | .11/2.90                            | .33/8.46     | .04/1.02                  | .38/9.53              | .17/4.24                         | .26/6.53     | 500               |
| W4TZ-187-5-D                  | Fluropolymer (Aqua)         | .19/4.75                            | .17/4.37                            | .36/9.02     | .04/1.02                  | .38/9.53              | .17/4.24                         | .22/5.54     | 500               |
| W4TZ-250-5-D                  | Fluropolymer (Aqua)         | .25/6.35                            | .23/5.94                            | .38/9.70     | .04/1.02                  | .38/9.53              | .17/4.24                         | .19/4.83     | 500               |
| W4TZ-312-5-D                  | Fluropolymer (Aqua)         | .31/7.92                            | .30/7.54                            | .42/10.72    | .04/1.02                  | .38/9.53              | .17/4.24                         | .21/5.21     | 500               |
| W4TZ-375-5-D                  | Fluropolymer (Aqua)         | .38/9.53                            | .36/9.12                            | .45/11.53    | .04/1.02                  | .38/9.53              | .17/4.24                         | .21/5.33     | 500               |
| W4TZ-500-5-D                  | Fluropolymer (Aqua)         | .50/12.70                           | .48/12.30                           | .49/12.45    | .04/1.02                  | .38/9.53              | .17/4.24                         | .27/6.86     | 500               |
| W6TZ-187-5-D                  | Fluropolymer (Aqua)         | .19/4.75                            | .17/4.37                            | .38/9.53     | .06/1.52                  | .50/12.70             | .20/5.16                         | .24/6.12     | 500               |
| W6TZ-250-5-D                  | Fluropolymer (Aqua)         | .25/6.35                            | .23/5.94                            | .41/10.34    | .06/1.52                  | .50/12.70             | .20/5.16                         | .24/6.12     | 500               |
| W6TZ-312-5-D                  | Fluropolymer (Aqua)         | .31/7.92                            | .30/7.54                            | .45/11.30    | .06/1.52                  | .50/12.70             | .20/5.16                         | .28/6.60     | 500               |
| W6TZ-375-5-D                  | Fluropolymer (Aqua)         | .38/9.53                            | .36/9.12                            | .48/12.30    | .06/1.52                  | .50/12.70             | .20/5.16                         | .29/7.39     | 500               |
| W6TZ-437-5-D                  | Fluropolymer (Aqua)         | .44/11.10                           | .42/10.72                           | .52/13.26    | .06/1.52                  | .50/12.70             | .20/5.16                         | .26/6.68     | 500               |
| W6TZ-500-5-D                  | Fluropolymer (Aqua)         | .50/12.70                           | .48/12.30                           | .56/14.22    | .06/1.52                  | .50/12.70             | .20/5.16                         | .27/6.91     | 500               |
| W6TZ-625-5-D                  | Fluropolymer (Aqua)         | .63/15.88                           | .61/15.47                           | .64/16.18    | .06/1.52                  | .50/12.70             | .20/5.16                         | .29/7.37     | 500               |
| W6TZ-750-5-D                  | Fluropolymer (Aqua)         | .75/19.05                           | .67/17.10                           | .73/18.44    | .06/1.52                  | .50/12.70             | .20/5.16                         | .33/8.28     | 500               |



Ty-Rap®

## Harnessing Accessories

Several mounting styles available.

### Mechanical-Locking Routing Clamps

- Clamp acts as a retainer during wire routing, and as a permanent clamp when desired



| STD. CAT. NO. | MOUNTING HOLE SIZE IN./MM. | BUNDLE DIA. IN./MM. | MAX. WIRE WIDTH IN./MM. | LENGTH IN./MM. | STD. PKG. QTY. |
|---------------|----------------------------|---------------------|-------------------------|----------------|----------------|
| TC88          | .250/6.35                  | .500/12.7           | .250/6.35               | .891/22.63     | 100            |
| TC95          | .250/6.35                  | 1.000/25.4          | .500/12.7               | 1.590/40.39    | 100            |

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### Harness Clips

- Low installation cost
- Releasable
- For grouping wires in appliances, office equipment and other applications
- Adjustable, self-locking clip requires no tools for installation



#### How it works:

A projecting prong is simply pressed into a 1/4" hole, where it compresses and locks. The simple ratchet-type lock is released by moving the locking lever.

| BULK PKG. CAT. NO. | MOUNTING HOLE SIZE IN./MM. | MAX. WIRE BUNDLE DIA. IN./MM. | BULK PKG. QTY. |
|--------------------|----------------------------|-------------------------------|----------------|
| HCP438             | .250/6.35                  | .375/9.53                     | 1,000          |

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### Bundle-Retaining Clamp

- AC-loop
- Easy to add wires



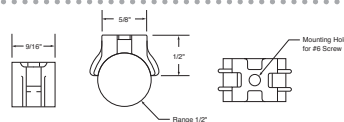
| STD. PKG. CAT. NO. | MOUNTING METHOD | BUNDLE DIA. IN./MM. | MAX. WIRE WIDTH IN./MM. | STD. PKG. QTY. |
|--------------------|-----------------|---------------------|-------------------------|----------------|
| TC70               | #10 screw       | .250/6.35           | .400/10.16              | 100            |
| TC71               | #10 screw       | .500/12.7           | .400/10.16              | 100            |
| TC72               | #10 screw       | .750/19.05          | .500/12.7               | 100            |
| TC73               | #10 screw       | 1.000/25.4          | .500/12.7               | 100            |
| TC74               | #10 screw       | 1.500/38.10         | .500/12.7               | 100            |

• Rigid PVC construction

For use in temperatures ranging from -40° F to 122° F (-40° C to 50° C).

### TY-RAP® Saddle Mounting Plate

- For use with round bundles



| STD. PKG. CAT. NO. | MAX TIE WIDTH IN./MM. | SIZE IN./MM.         | BUNDLE HOLE SIZE IN./MM. | MOUNTING STD. PKG. QTY. |
|--------------------|-----------------------|----------------------|--------------------------|-------------------------|
| TC92               | .190/4.83             | 1/2-1 1/4/12.7-31.75 | #6 Screw                 | 100                     |

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Wires are held 1/2" above work surface for easy tying.

### Wire-Bundle Retainers

- Consist of a spring-loaded clip and an elastic bundle support
- Wires are inserted by snapping them through spring-loaded clips

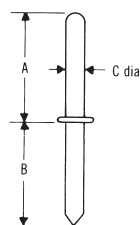


| STD. CAT. NO. | FASTENER  | MAX. WIRE BUNDLE DIA. IN./MM. | WIDTH IN./MM. | HEIGHT IN./MM. | STD. PKG. QTY. |
|---------------|-----------|-------------------------------|---------------|----------------|----------------|
| TC86          | #6 screws | .750/19.05                    | 1.750/44.45   | 1.813/46.05    | 25             |
| TC87          | #6 screws | 1.250/31.75                   | 2.469/62.71   | 2.281/57.94    | 10             |

Hardened, nickel-plated, steel construction.

### Harness-Board Nails

- For wire harness board manufacturing

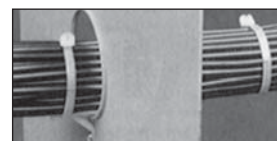


| STD. PKG. CAT. NO. | DIMENSIONS  |            |           | STD. PKG. QTY. |
|--------------------|-------------|------------|-----------|----------------|
|                    | A IN./MM.   | B IN./MM.  | C IN./MM. |                |
| HBP-1              | 1.000/25.40 | .625/15.88 | .072/1.83 | 100            |
| HBP112             | 1.500/38.10 | .625/15.88 | .082/2.08 | 100            |
| HBP2               | 2.000/50.80 | .625/15.88 | .092/2.34 | 100            |
| HBP212             | 2.500/63.50 | .625/15.88 | .105/2.67 | 100            |
| HBP3               | 3.000/76.20 | .625/15.88 | .120/3.05 | 100            |

Offers extra support for wires and cables.

### Bulkhead Bundle Support Feedthrough

- TC131 bulkhead mounting base can be installed from either side
- Ties are installed through the clamp on either side of the bulkhead



| BULK PKG. CAT. NO. | MOUNTING METHOD | TIE WIDTH ACCOM. | MAXIMUM WIDTH IN./MM. | LENGTH IN./MM. | BULK PKG. QTY. |
|--------------------|-----------------|------------------|-----------------------|----------------|----------------|
| TC131              | #6 screw        | .190/4.83        | 1.115/28.32           | 1.890/48.00    | 1,000          |

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### Keep wire bundles apart. Wire-Bundle Spacer

| STD. PKG. CAT. NO. | MAXIMUM TIE WIDTH ACCOM. | WIDTH IN./MM. | LENGTH IN./MM. | STD. PKG. QTY. |
|--------------------|--------------------------|---------------|----------------|----------------|
| TC5339             | .190/4.83                | .266/6.76     | .500/12.70     | 100            |

Natural nylon color.

For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).



Thomas & Betts

www.tnb.com

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Fax: 901.252.1354

Technical Services  
Tel: 888.862.3289

## Mounting Bases for Heavy-Duty Applications

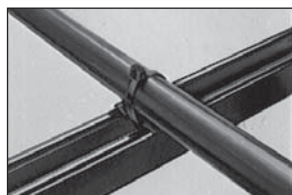
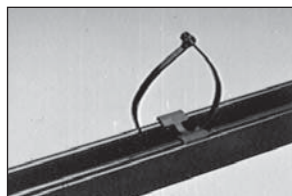
Designed for indoor or outdoor use and heavy-duty applications.

### Framing Channel Clamp



- Quick and easy to install on existing metal framing channel
- Installs with a push and twist
- Smooth design protects cable insulation
- Takes range of cable diameters

When fastening wire bundles, cables or hoses to framing channels, you can cut costs considerably by using the Ty-Rap® cable clamp. It's made of smooth, weather-resistant nylon and designed to protect cable insulation and hoses from wear or damage, which can occur with metal clamps. The clamp may be used for both indoor or outdoor applications. It quickly installs in the framing channel with a simple push and twist. It requires no screws, nuts or tools. The clamp fits all 1½" and 1¾" channels regardless of channel depth.



| STD. PKG. CAT. NO. | CHANNEL SIZE (IN.) | MAXIMUM TIE WIDTH ACCOM. | STD. PKG. QTY. |
|--------------------|--------------------|--------------------------|----------------|
| TC5363X            | 1½ & 1¾            | .301/7.65                | 50             |

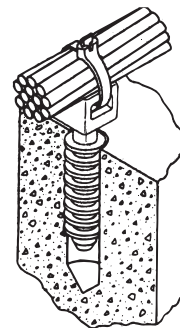
• Made from high-impact weather-resistant black nylon  
For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

Specially designed head is range-taking.

### Ty-Rap® Mounting Base for Masonry and Brick Surfaces



- Quick, easy installation without cumbersome adhesives or epoxies
- Provides a quick, easy and dependable means of attaching cable and wires to masonry surfaces
- Installs by tapping it into a drilled hole
- It's immediately ready to accept a cable tie and wire bundle — no tedious surface preparation; no waiting for adhesives to set
- Replaces a variety of anchors, clamps, screws and adhesives
- Designed for both indoor and outdoor applications
- Only two sizes to stock — reduces inventory



| STD. PKG. CAT. NO. | HOLE SIZE IN MASONRY | MAXIMUM TIE WIDTH ACCOM. | STD. PKG. QTY. |
|--------------------|----------------------|--------------------------|----------------|
| TC5358             | ¼                    | .190/4.83                | 100            |
| TC5359             | ⅜                    | .500/12.70               | 50             |

• Made of a special impact and ultraviolet-resistant black nylon  
For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).

### Weather-resistant!

### Ty-Rap® Mounting Base for Lashing Tie

- For use with lashing ties up to .500" width (i.e. TY5409)
- High impact



| STD. PKG. CAT. NO. | MOUNTING METHOD | TIE WIDTH ACCOM. | MAXIMUM WIDTH IN./MM. | LENGTH IN./MM. | STD. PKG. QTY. |
|--------------------|-----------------|------------------|-----------------------|----------------|----------------|
| TC5355             | #8 screw        | .500/12.70       | .750/19.05            | 1.750/44.45    | 25             |
| TC5356             | #10 screw       | .500/12.70       | .750/19.05            | 1.750/44.45    | 25             |
| TC5357             | ¼" screw        | .500/12.70       | .750/19.05            | 1.750/44.45    | 25             |

• Black nylon construction  
For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).



# Ty-Rap®

## Mounting Bases for Heavy-Duty Applications

A fast and simple harnessing method for neat, versatile wire management.

### Stud Mount Fastening System

- Great for harnessing wires, cables and hoses to truck and trailer chassis
- Fast, easy installation, using standard  $\frac{3}{8}$ " power drill and application tool or simply hammer on
- Unlimited harnessing flexibility using conventional T&B cable ties
- Custom drill bit quickly installs base to proper torque — won't crack or break mounting base due to being overtightened
- Unique 4-way multi-directional design
- 10-position harness capability
- Available for  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ", and  $\frac{3}{4}$ " stud/bolt sizes
- Self-tapping thread design for reliable installation onto stud
- High pull-out strength of 500+ lbs.

Thomas & Betts Stud Mount Fastening System is a fast and simple harnessing method for neat, versatile, cord, cable, hose, and wire management. Using a custom drill bit for your  $\frac{3}{8}$ " power drill, the Stud Mount base is quickly attached onto a threaded stud or bolt to the proper torque—every time. The innovative "X" design of the base reliably supports many types of cable or hose assemblies using a wide range of conventional T&B cable ties. Designed with 10 separate lashing positions, the Stud Mount offers unlimited wire harnessing arrangements. T&B's Stud Mount is available in four convenient stud bolt sizes.



The Stud Mount Cable Fastening System includes a range of bases and the custom drill bit that mounts all sizes.



During installation, the custom Stud Mount drill bit application tool ejects itself from mounting base, ensuring proper torque and preventing cracking or breaking of the mount from being overtightened.

| BULK PKG. CAT. NO. | DESCRIPTION      | STUD SIZE     | MATERIAL             | COLOR | BULK PKG. |
|--------------------|------------------|---------------|----------------------|-------|-----------|
| XMNY-375-0-D       | Mount Fastener   | $\frac{3}{8}$ | Nylon, UV Stabilized | Black | 500       |
| XMNY-500-0-D       | Mount Fastener   | $\frac{1}{2}$ | Nylon, UV Stabilized | Black | 500       |
| XMNY-625-0-D       | Mount Fastener   | $\frac{5}{8}$ | Nylon, UV Stabilized | Black | 500       |
| XMNY-750-0-D       | Mount Fastener   | $\frac{3}{4}$ | Nylon, UV Stabilized | Black | 500       |
| WTXM               | Application Tool | —             | Tool Steel           | —     | 1         |

• Material: Impact-resistant weatherable black nylon  
For use in temperatures ranging from -40° F to 185° F (-40° C to 85° C).



Virtually unlimited harnessing flexibility is provided in the unique 10-position harness design of the Stud Mount base.

### Thomas & Betts

[www.tnb.com](http://www.tnb.com)

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

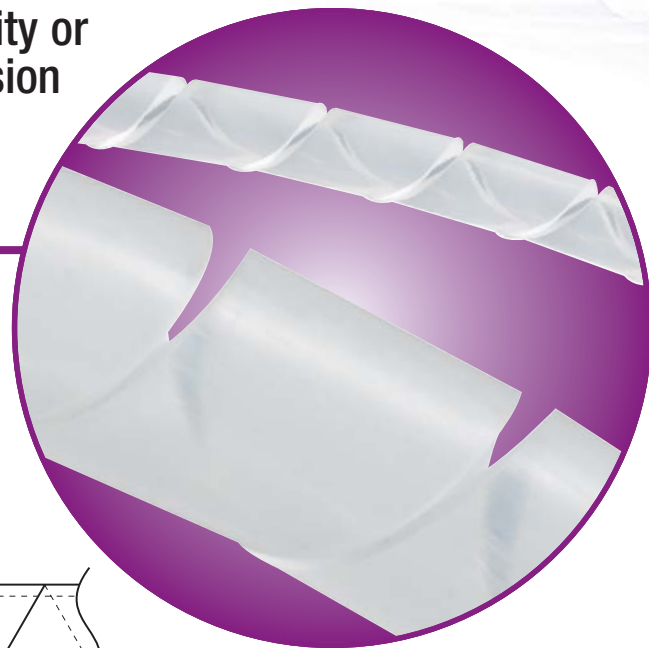
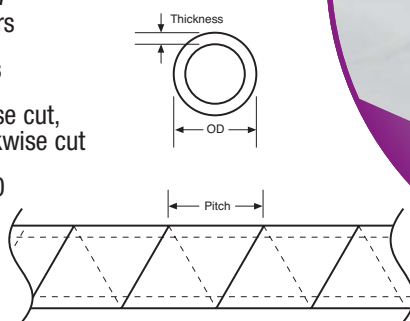
Technical Services  
Tel: 888.862.3289



Install with gaps for greater flexibility or  
butted together for maximum abrasion  
resistance, insulation and rigidity!

### Spiral Wrap

- Packaged in 100 foot reels
- Protects bundles from .063" to 7"  
(1.6 mm to 177.8 mm) diameters
- Available in three material types
- Also commonly known as reverse cut,  
left-handed cut or counter-clockwise cut
- For use with cutting tool SR-100  
(see page D-53)
- UL 94 HB Flammability Rating



| STD. PKG.<br>CAT. NO. | MATERIAL                       | OUTSIDE<br>DIAMETER<br>IN./MM. | PITCH<br>IN./MM. | NOMINAL WALL<br>THICKNESS<br>IN./MM. | MINIMUM/MAXIMUM BUNDLE RANGE |             | REEL<br>QTY. |
|-----------------------|--------------------------------|--------------------------------|------------------|--------------------------------------|------------------------------|-------------|--------------|
|                       |                                |                                |                  |                                      | IN./MM.                      | IN./MM.     |              |
| SRPE-125-9-C          | Natural Polyethylene           | .13/3.18                       | .21/5.33         | .04/.89                              | .06/1.60                     | .50/12.70   | 1 (100 ft.)  |
| SRPE-187-9-C          | Natural Polyethylene           | .19/4.75                       | .24/6.10         | .04/1.02                             | .13/3.18                     | 1.50/38.10  | 1 (100 ft.)  |
| SRPE-250-9-C          | Natural Polyethylene           | .25/6.35                       | .38/9.53         | .05/1.14                             | .19/4.78                     | 2.00/50.80  | 1 (100 ft.)  |
| SRPE-375-9-C          | Natural Polyethylene           | .38/9.53                       | .44/11.13        | .05/1.32                             | .31/7.95                     | 3.00/76.20  | 1 (100 ft.)  |
| SRPE-500-9-C          | Natural Polyethylene           | .50/12.70                      | .56/14.30        | .06/1.57                             | .38/9.53                     | 4.00/101.60 | 1 (100 ft.)  |
| SRPE-625-9-C          | Natural Polyethylene           | .63/15.88                      | .63/15.88        | .06/1.57                             | .63/15.88                    | 4.50/114.30 | 1 (100 ft.)  |
| SRPE-750-9-C          | Natural Polyethylene           | .63/15.88                      | .75/19.05        | .07/1.65                             | .75/19.05                    | 5.00/127.00 | 1 (100 ft.)  |
| SRPE-1000-9-C         | Natural Polyethylene           | 1.00/25.40                     | 1.11/28.19       | .70/17.78                            | 1.0/25.40                    | 7.00/177.80 | 1 (100 ft.)  |
| SRPE-125-0-C          | Weatherable Black Polyethylene | .13/3.18                       | .21/5.33         | .04/.89                              | .06/1.60                     | .50/12.70   | 1 (100 ft.)  |
| SRPE-187-0-C          | Weatherable Black Polyethylene | .19/4.75                       | .24/6.10         | .04/1.02                             | .13/3.18                     | 1.50/38.10  | 1 (100 ft.)  |
| SRPE-250-0-C          | Weatherable Black Polyethylene | .25/6.35                       | .38/9.53         | .05/1.14                             | .19/4.78                     | 2.00/50.80  | 1 (100 ft.)  |
| SRPE-375-0-C          | Weatherable Black Polyethylene | .38/9.53                       | .44/11.13        | .05/1.32                             | .31/7.95                     | 3.00/76.20  | 1 (100 ft.)  |
| SRPE-500-0-C          | Weatherable Black Polyethylene | .50/12.70                      | .56/14.30        | .06/1.57                             | .38/9.53                     | 4.00/101.60 | 1 (100 ft.)  |
| SRPE-625-0-C          | Weatherable Black Polyethylene | .63/15.88                      | .63/15.88        | .06/1.57                             | .63/15.88                    | 4.50/114.30 | 1 (100 ft.)  |
| SRPE-750-0-C          | Weatherable Black Polyethylene | .63/15.88                      | .75/19.05        | .07/1.65                             | .75/19.05                    | 5.00/127.00 | 1 (100 ft.)  |
| SRPE-1000-0-C         | Weatherable Black Polyethylene | 1.00/25.40                     | 1.11/28.19       | .70/17.78                            | 1.0/25.40                    | 7.00/177.80 | 1 (100 ft.)  |
| SRNY-187-9-C          | Natural Nylon 6.6              | .19/4.75                       | .24/6.10         | .03/.64                              | .13/3.18                     | 1.50/38.10  | 1 (100 ft.)  |
| SRNY-250-9-C          | Natural Nylon 6.6              | .25/6.35                       | .38/9.53         | .03/.64                              | .19/4.75                     | 2.00/50.80  | 1 (100 ft.)  |
| SRNY-375-9-C          | Natural Nylon 6.6              | .38/9.53                       | .44/11.13        | .04/.89                              | .31/7.92                     | 3.00/76.20  | 1 (100 ft.)  |
| SRNY-500-9-C          | Natural Nylon 6.6              | .50/12.70                      | .56/14.30        | .04/.89                              | .38/9.53                     | 4.00/101.60 | 1 (100 ft.)  |

Sold in 100-ft. rolls.

#### Polyethylene

Available in natural and weatherable black.  
For general indoor use to 122° F (50° C). Material is flexible and easy to work with.

#### Weatherable Polyethylene

Available in black only.  
Designed to resist ultraviolet light in outdoor applications.

#### Flame-Retardant Polyethylene

Available in white only.  
Material is UL® 94 V-0 rated. More economical and less rigid than nylon.

#### Nylon 6.6

Available in natural only.  
Offers highest abrasion resistance and rigidity.  
Self-extinguishing to UL 94 HB and a UL Recognized Component.

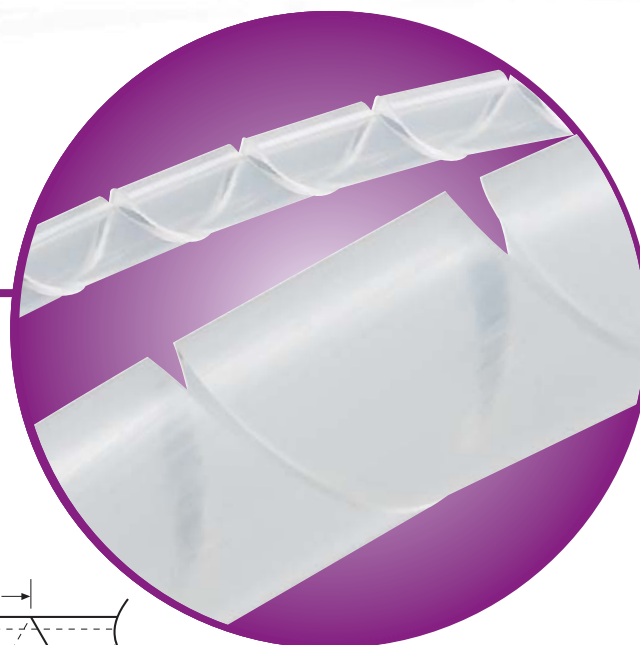
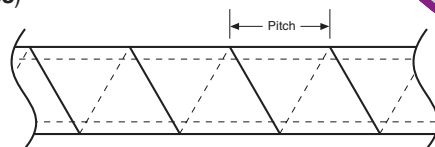
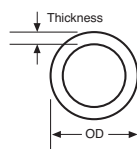
#### Fluoropolymer

Available in opaque color.  
Excellent resistance to harsh environments 338° F (170° C) max operating temperature.

Perfect for protection of bundles from .063" to 7" diameters.

### Forward Cut Spiral Wrap

- Install with gaps for greater flexibility or butted together for maximum abrasion resistance, insulation, and rigidity
- Available in three materials
- Also known as right-hand cut or clockwise cut
- Use cutting tool SR-100 (pg D-53)



| STD. PKG.<br>CAT. NO. | MATERIAL                           | OUTSIDE<br>DIAMETER<br>IN./MM. | PITCH<br>IN./MM. | NOMINAL WALL<br>THICKNESS<br>IN./MM. | MIN./MAX.<br>BUNDLE RANGE<br>IN./MM. | UL<br>FLAMMABILITY | REEL<br>QTY. |
|-----------------------|------------------------------------|--------------------------------|------------------|--------------------------------------|--------------------------------------|--------------------|--------------|
| SRPE-125F-9-C         | Natural Polyethylene               | .19/4.75                       | .24/6.10         | .04/1.02                             | .13-1.50/3.18-80.77                  | 94 HB              | 1 (100ft.)   |
| SRPE-187F-9-C         | Natural Polyethylene               | .19/4.75                       | .24/6.10         | .04/1.02                             | .13-1.50/3.18-80.77                  | 94 HB              | 1 (100ft.)   |
| SRPE-250F-9-C         | Natural Polyethylene               | .25/6.35                       | .38/9.53         | .05/1.14                             | .19-2.0/4.78-50.80                   | 94 HB              | 1 (100ft.)   |
| SRPE-375F-9-C         | Natural Polyethylene               | .38/9.53                       | .44/11.13        | .05/1.32                             | .31-3.0/7.95-76.20                   | 94 HB              | 1 (100ft.)   |
| SRPE-500F-9-C         | Natural Polyethylene               | .50/12.70                      | .56/14.30        | .06/1.57                             | .38-4.0/9.53-101.60                  | 94 HB              | 1 (100ft.)   |
| SRPE-625F-9-C         | Natural Polyethylene               | .63/15.88                      | .63/15.88        | .06/1.57                             | .63-4.5/15.88-114.30                 | 94 HB              | 1 (100ft.)   |
| SRPE-750F-9-C         | Natural Polyethylene               | .75/19.05                      | .75/19.05        | .07/1.65                             | .75-5.0/19.05-127.00                 | 94 HB              | 1 (100ft.)   |
| SRPE-1000F-9-C        | Natural Polyethylene               | 1.0/25.40                      | 1.11/28.19       | .07/1.78                             | 1.0-7.0/25.40-177.80                 | 94 HB              | 1 (100ft.)   |
| SRPE-125F-0-C         | Weatherable Black Polyethylene     | .19/4.75                       | .24/6.10         | .04/1.02                             | .13-1.50/3.18-80.77                  | 94 HB              | 1 (100ft.)   |
| SRPE-187F-0-C         | Weatherable Black Polyethylene     | .19/4.75                       | .24/6.10         | .04/1.02                             | .13-1.50/3.18-80.77                  | 94 HB              | 1 (100ft.)   |
| SRPE-250F-0-C         | Weatherable Black Polyethylene     | .25/6.35                       | .38/9.53         | .05/1.14                             | .19-2.0/4.78-50.80                   | 94 HB              | 1 (100ft.)   |
| SRPE-375F-0-C         | Weatherable Black Polyethylene     | .38/9.53                       | .44/11.13        | .05/1.32                             | .31-3.0/7.95-76.20                   | 94 HB              | 1 (100ft.)   |
| SRPE-500F-0-C         | Weatherable Black Polyethylene     | .50/12.70                      | .56/14.30        | .06/1.57                             | .38-4.0/9.53-101.60                  | 94 HB              | 1 (100ft.)   |
| SRPE-625F-0-C         | Weatherable Black Polyethylene     | .63/15.88                      | .63/15.88        | .06/1.57                             | .63-4.5/15.88-114.30                 | 94 HB              | 1 (100ft.)   |
| SRPE-750F-0-C         | Weatherable Black Polyethylene     | .75/19.05                      | .75/19.05        | .07/1.65                             | .75-5.0/19.05-127.00                 | 94 HB              | 1 (100ft.)   |
| SRPE-1000F-0-C        | Weatherable Black Polyethylene     | 1.0/25.40                      | 1.11/28.19       | .07/1.78                             | 1.0-7.0/25.40-177.80                 | 94 HB              | 1 (100ft.)   |
| SRFR-125F-WH-C        | White Flame-Retardant Polyethylene | .19/4.75                       | .24/6.10         | .04/1.02                             | .13-1.50/3.18-80.77                  | 94 V-0             | 1 (100ft.)   |
| SRFR-187F-WH-C        | White Flame-Retardant Polyethylene | .19/4.75                       | .24/6.10         | .04/1.02                             | .13-1.50/3.18-80.77                  | 94 V-0             | 1 (100ft.)   |
| SRFR-250F-WH-C        | White Flame-Retardant Polyethylene | .25/6.35                       | .38/9.53         | .05/1.14                             | .19-2.0/4.78-50.80                   | 94 V-0             | 1 (100ft.)   |
| SRFR-375F-WH-C        | White Flame-Retardant Polyethylene | .38/9.53                       | .44/11.13        | .05/1.32                             | .31-3.0/7.95-76.20                   | 94 V-0             | 1 (100ft.)   |
| SRFR-500F-WH-C        | White Flame-Retardant Polyethylene | .50/12.70                      | .56/14.30        | .06/1.57                             | .38-4.0/9.53-101.60                  | 94 V-0             | 1 (100ft.)   |
| SRTL-250F-9-C         | Fluoropolymer                      | .25/6.35                       | .38/9.53         | .05/1.32                             | .19-2.0/4.78-50.80                   | 94 V-0             | 1 (100ft.)   |
| SRTL-500F-9-C         | Fluoropolymer                      | .50/12.70                      | .56/14.30        | .06/1.57                             | .38-4.0/9.53-101.60                  | 94 V-0             | 1 (100ft.)   |

• Sold in 100-ft. rolls.

#### Polyethylene

Available in natural and weatherable black.

For general indoor use to 122° F (50° C). Material is flexible and easy to work with.

#### Weatherable Polyethylene

Available in black only. Designed to resist ultraviolet light in outdoor applications.

#### Flame-Retardant Polyethylene

Available in white only. Material is UL 94 V-0 rated. More economical and less rigid than nylon.

#### Nylon 6.6

Available in natural only. Offers highest abrasion resistance and rigidity. Self-extinguishing to UL 94 HB and a UL Recognized Component.

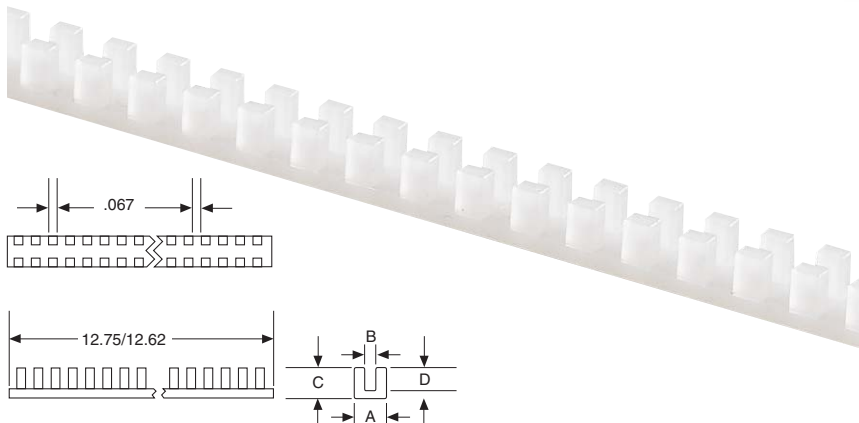
#### Fluoropolymer

Available in opaque color. Excellent resistance to harsh environments 338° F (170° C) max operating temperature.

Suitable for round hole or odd-shape applications!

### Molded Grommets

- Meets MS21266
- Available in three materials for panel thicknesses from .015" to .192"
- Grommet is used to protect panel edges and knockouts where the chafing of passing wires is a concern
- Also available in fluoropolymer material for harsh environments
- Strip length — 12¼"



| STD. PKG. CAT. NO. | BULK. PKG. CAT. NO. | MATERIAL              | A IN./MM. | B IN./MM. | C IN./MM. | D IN./MM. | FOR PANEL THICKNESS (IN.) | MILITARY STANDARD NUMBERS | STD. PKG. | BULK PKG. |
|--------------------|---------------------|-----------------------|-----------|-----------|-----------|-----------|---------------------------|---------------------------|-----------|-----------|
| GSNY-052-9-C       | —                   | Natural Nylon 6.6     | .15/3.81  | .06/1.42  | .16/3.94  | .10/2.54  | .02-.052/.38-1.32         | MS-21266-1N               | 100       | —         |
| GSNY-085-9-C       | —                   | Natural Nylon 6.6     | .18/4.45  | .09/2.29  | .16/3.94  | .10/2.54  | .05-.085/1.35-2.16        | MS-21266-2N               | 100       | —         |
| GSNY-128-9-C       | —                   | Natural Nylon 6.6     | .22/5.59  | .13/3.33  | .16/3.94  | .10/2.54  | .09-.128/2.18-3.25        | MS-21266-3N               | 100       | —         |
| GSNY-192-9-C       | —                   | Natural Nylon 6.6     | .36/8.26  | .20/4.95  | .23/5.84  | .16/4.06  | .19-.192/3.25-4.88        | MS-21266-4N               | 100       | —         |
| GSTZ-052-9-C       | —                   | Fluoropolymer         | .15/3.81  | .06/1.42  | .16/3.94  | .10/2.54  | .02-.052/.38-1.32         | MS-21266-1T               | 100       | —         |
| GSTZ-085-9-C       | —                   | Fluoropolymer         | .18/4.45  | .09/2.29  | .16/3.94  | .10/2.54  | .05-.085/1.35-2.16        | MS-21266-2T               | 100       | —         |
| GSTZ-128-9-C       | —                   | Fluoropolymer         | .22/5.59  | .13/3.33  | .16/3.94  | .10/2.54  | .09-.128/2.18-3.25        | MS-21266-3T               | 100       | —         |
| GSFR-052-WH-C      | —                   | Flame-Retardant White | .15/3.81  | .06/1.42  | .16/3.94  | .10/2.54  | .02-.052/.38-1.32         | —                         | 100       | —         |
| —                  | GSFR-052-WH-D       | Flame-Retardant White | .15/3.81  | .06/1.42  | .16/3.94  | .10/2.54  | .02-.052/.38-1.32         | —                         | —         | 500       |
| GSFR-085-WH-C      | —                   | Flame-Retardant White | .18/4.45  | .09/2.29  | .16/3.94  | .10/2.54  | .05-.085/1.35-2.16        | —                         | 100       | —         |
| GSFR-128-WH-C      | —                   | Flame-Retardant White | .22/5.59  | .13/3.33  | .16/3.94  | .10/2.54  | .09-.128/2.18-3.25        | —                         | 100       | —         |

High-carbon, Teflon® coated steel blade!

### SR-100 Cutting Tool

Use our SR-100 cutting tool for all your spiral wrap, plastic pipe and PVC conduit needs up to 1¼" I.D.

- Contoured handle resists tube crushing
- Produces no "sawdust" — no need to debur
- Lightweight, low-profile and no exposed blade when stored



| CAT. NO. | DESCRIPTION  |
|----------|--------------|
| SR-100   | Cutting Tool |

Teflon® is a trademark of the DuPont Corporation.

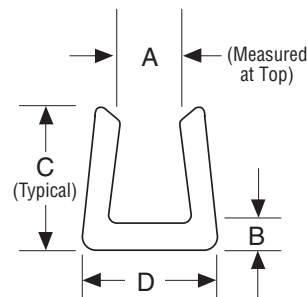


## Wire Protection Products

Line panel edges and knockouts!

### Extruded Grommeting

- Used to line panel edges and knockouts where the chafing of passing wires is a concern
- Available in 8 stock sizes in 100-ft. lengths for panels from .040" (1.02 mm) to .250" (6.35 mm) thick
- A variety of stocked materials to cover a wide range of applications
- Solid Wall Polyethylene is ideal for protection of glass, sheet metal, wood panels, or other sheet-form materials



NOTE: Min. bend radius is 1 1/4".

| STD. PKG.<br>CAT. NO. | MATERIAL                           | A<br>MAX. PANEL<br>THICKNESS<br>IN./MM. | B<br>GROMMETING<br>THICKNESS<br>IN./MM. | C<br>GROMMETING<br>HEIGHT<br>IN./MM. | D<br>GROMMETING<br>WIDTH<br>IN./MM. | UL<br>FLAMMABILITY | REEL<br>QTY. |
|-----------------------|------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------|-------------------------------------|--------------------|--------------|
| GRNY-040-9-C          | Natural Nylon                      | .04/1.02                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-052-9-C          | Natural Nylon                      | .05/1.32                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-062-9-C          | Natural Nylon                      | .06/1.57                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-085-9-C          | Natural Nylon                      | .09/2.16                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-100-9-C          | Natural Nylon                      | .10/2.54                                | .05/1.14                                | .22/5.89                             | .21/5.33                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-125-9-C          | Natural Nylon                      | .13/3.18                                | .05/1.27                                | .22/5.89                             | .21/5.21                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-187-9-C          | Natural Nylon                      | .19/4.75                                | .05/1.27                                | .27/6.86                             | .28/6.99                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-250-9-C          | Natural Nylon                      | .25/6.35                                | .05/1.27                                | .28/7.11                             | .379/4.0                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-040-0-C          | Black Nylon                        | .04/1.02                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-052-0-C          | Black Nylon                        | .05/1.32                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-062-0-C          | Black Nylon                        | .06/1.57                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-085-0-C          | Black Nylon                        | .09/2.16                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-100-0-C          | Black Nylon                        | .10/2.54                                | .05/1.14                                | .22/5.89                             | .21/5.33                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-125-0-C          | Black Nylon                        | .13/3.18                                | .05/1.27                                | .22/5.89                             | .21/5.21                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-187-0-C          | Black Nylon                        | .19/4.75                                | .05/1.27                                | .27/6.86                             | .28/6.99                            | 94 V-2             | 1 (100 ft.)  |
| GRNY-250-0-C          | Black Nylon                        | .25/6.35                                | .05/1.27                                | .28/7.11                             | .379/4.0                            | 94 V-2             | 1 (100 ft.)  |
| GRPE-040-9-C          | Natural Polyethylene               | .04/1.02                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 HB              | 1 (100 ft.)  |
| GRPE-052-9-C          | Natural Polyethylene               | .05/1.32                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 HB              | 1 (100 ft.)  |
| GRPE-062-9-C          | Natural Polyethylene               | .06/1.57                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 HB              | 1 (100 ft.)  |
| GRPE-085-9-C          | Natural Polyethylene               | .09/2.16                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 HB              | 1 (100 ft.)  |
| GRPE-100-9-C          | Natural Polyethylene               | .10/2.54                                | .05/1.14                                | .22/5.89                             | .21/5.33                            | 94 HB              | 1 (100 ft.)  |
| GRPE-125-9-C          | Natural Polyethylene               | .13/3.18                                | .05/1.27                                | .22/5.89                             | .21/5.21                            | 94 HB              | 1 (100 ft.)  |
| GRPE-187-9-C          | Natural Polyethylene               | .19/4.75                                | .05/1.27                                | .27/6.86                             | .28/6.99                            | 94 HB              | 1 (100 ft.)  |
| GRPE-250-9-C          | Natural Polyethylene               | .25/6.35                                | .05/1.27                                | .28/7.11                             | .379/4.0                            | 94 HB              | 1 (100 ft.)  |
| GRUPE-040-9-C         | Solid Wall Polyethylene            | .04/1.02                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 HB              | 1 (100 ft.)  |
| GRUPE-052-9-C         | Solid Wall Polyethylene            | .05/1.32                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 HB              | 1 (100 ft.)  |
| GRUPE-062-9-C         | Solid Wall Polyethylene            | .06/1.57                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 HB              | 1 (100 ft.)  |
| GRUPE-085-9-C         | Solid Wall Polyethylene            | .09/2.16                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 HB              | 1 (100 ft.)  |
| GRUPE-100-9-C         | Solid Wall Polyethylene            | .10/2.54                                | .05/1.14                                | .22/5.89                             | .21/5.33                            | 94 HB              | 1 (100 ft.)  |
| GRUPE-125-9-C         | Solid Wall Polyethylene            | .13/3.18                                | .05/1.27                                | .22/5.89                             | .21/5.21                            | 94 HB              | 1 (100 ft.)  |
| GRUPE-187-9-C         | Solid Wall Polyethylene            | .19/4.75                                | .05/1.27                                | .27/6.86                             | .28/6.99                            | 94 HB              | 1 (100 ft.)  |
| GRUPE-250-9-C         | Solid Wall Polyethylene            | .25/6.35                                | .05/1.27                                | .28/7.11                             | .379/4.0                            | 94 HB              | 1 (100 ft.)  |
| GRFR-040-WH-C         | Flame-Retardant White Polyethylene | .04/1.02                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 V-0             | 1 (100 ft.)  |
| GRFR-052-WH-C         | Flame-Retardant White Polyethylene | .05/1.32                                | .04/1.02                                | .19/4.83                             | .13/3.18                            | 94 V-0             | 1 (100 ft.)  |
| GRFR-062-WH-C         | Flame-Retardant White Polyethylene | .06/1.57                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 V-0             | 1 (100 ft.)  |
| GRFR-085-WH-C         | Flame-Retardant White Polyethylene | .09/2.16                                | .05/1.14                                | .20/5.08                             | .17/4.32                            | 94 V-0             | 1 (100 ft.)  |
| GRFR-100-WH-C         | Flame-Retardant White Polyethylene | .10/2.54                                | .05/1.14                                | .22/5.89                             | .23/5.89                            | 94 V-0             | 1 (100 ft.)  |
| GRFR-125-WH-C         | Flame-Retardant White Polyethylene | .13/3.18                                | .05/1.27                                | .22/5.89                             | .23/5.89                            | 94 V-0             | 1 (100 ft.)  |
| GRFR-187-WH-C         | Flame-Retardant White Polyethylene | .19/4.75                                | .05/1.27                                | .27/6.86                             | .28/6.99                            | 94 V-0             | 1 (100 ft.)  |
| GRFR-250-WH-C         | Flame-Retardant White Polyethylene | .25/6.35                                | .05/1.27                                | .28/7.11                             | .379/4.0                            | 94 V-0             | 1 (100 ft.)  |

## Braided Wire Protection Sleeving

Available in handy mini spools or bulk reels!



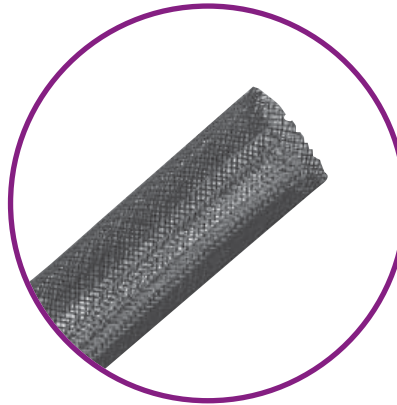
### Braided Expandable Wire Protection Sleeving

Thomas & Betts braided wire protection sleeving is used to bundle and protect wires and cables from abrasion and excessive wear. Its flexible, lightweight, open weave construction installs easily over a variety of bundle diameters and shapes. The sleeving is resistant to chemicals, fungus, fuels, UV sunlight, and has an indefinite shelf life. It's easily cut with a hot knife, which seals the end, preventing fraying. Ends can be secured using Ty-Rap® cable ties.

Available in:

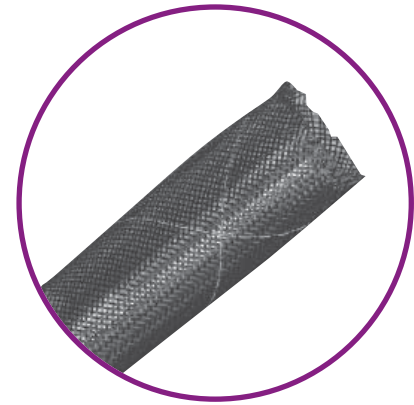
- Handy mini spools or bulk reels
- Eight sizes from 1/8" (3.18 mm) to 2 1/2" (63.5 mm) nominal I.D. size
- Solid or wraparound hook and loop braided expandable wire sleeving
- Meets UL94V-1
- Meets Federal Motor Vehicle Standard No. FMV SS 302

### Types of Materials



#### Polyethylene Terephthalate (P.E.T.)

A black 0.010" (.25mm) polyester monofilament material designed for indoor and outdoor applications. It's rated for continuous operating temp. -103° F to 257° F (-75° C to 125° C).



#### F - Flame Retardant Polyethylene Terephthalate (P.E.T.)

A 0.010" (.25 mm) self-extinguishing polyester monofilament material that can be used indoors and outdoors. It's provided in black with white tracer for identification, and is rated for continuous operating temp. -103° F to 257° F (-75° C to 125° C). Meets UL 94V-1 Flammability Rating.

Ty-Rap® Cable Fastening Systems

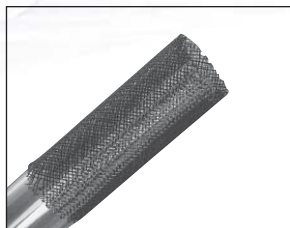
### Catalog Number System

| CAT. NO.        | NOMINAL I.D. (IN./MM.) | COLOR | NOMINAL DIAMETER RANGE (IN./MM.) | REEL QUANTITY  | STD. PKG. QTY. |
|-----------------|------------------------|-------|----------------------------------|----------------|----------------|
| <b>S250PT-0</b> | .250/6.35              | Black | .125 to .375/3.18 to 9.53        | 200 ft./60.96m | 1              |
| <b>S375PC-0</b> | .375/9.53              | Black | .187 to .625/4.75 to 15.88       | 125 ft./38.10m | 1              |

|                                             |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>S</b> = Braided Expandable Wire Sleeving | <b>Materials</b><br><b>P</b> = PET (Polyethylene Terephthalate)<br><b>F</b> = Flame-retardant P.E.T.<br><b>PW</b> = PET hook & loop wraparound sleeving<br><b>FW</b> = Flame-retardant P.E.T. hook & loop wraparound sleeving | <b>Nominal I.D. Equivalents</b><br><b>.750</b> = 3/4"<br><b>1.250</b> = 1 1/4"<br><b>.125</b> = 1/8"<br><b>1.500</b> = 1 1/2"<br><b>.250</b> = 1/4"<br><b>1.750</b> = 1 3/4"<br><b>.375</b> = 3/8"<br><b>2.000</b> = 2"<br><b>.500</b> = 1/2"<br><b>2.500</b> = 2 1/2" |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Braided Expandable Wire Sleevings



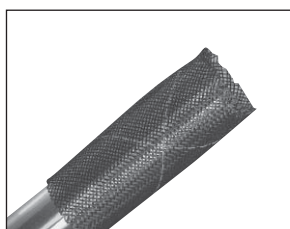
Portable convenience!

### PET Braided Expandable Wire Sleevings — Mini Spool



| STD PKG. CAT. NO. | NOMINAL I.D. IN./MM. | COLOR | NOMINAL DIAMETER RANGE IN./MM. | SPOOL QUANTITY | STD. PKG. QTY. |
|-------------------|----------------------|-------|--------------------------------|----------------|----------------|
| <b>S250PT-0</b>   | .25/6.35             | Black | .13 to .38/3.18 to 9.53        | 200 ft./60.96m | 1              |
| <b>S375PC-0</b>   | .38/9.53             | Black | .19 to .63/4.75 to 15.88       | 125 ft./38.10m | 1              |
| <b>S500PC-0</b>   | .50/12.70            | Black | .25 to .75/6.35 to 19.05       | 100 ft./30.48m | 1              |
| <b>S750PC-0</b>   | .75/19.05            | Black | .50 to 1.25/12.70 to 31.75     | 100 ft./30.48m | 1              |
| <b>S1250PL-0</b>  | 1.25/31.75           | Black | .75 to 1.75/19.05 to 44.45     | 50 ft./15.24m  | 1              |

NOTE: Order by spool, not per foot.



Safety first!

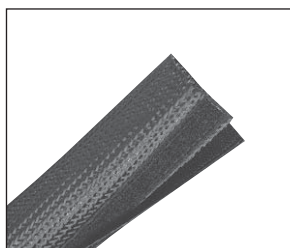
### Flame-Retardant Braided Expandable Wire Sleevings — Mini Spool



Meets UL94V-1

| STD PKG. CAT. NO. | NOMINAL I.D. IN./MM. | COLOR                   | NOMINAL DIAMETER RANGE IN./MM. | SPOOL QUANTITY | STD. PKG. QTY. |
|-------------------|----------------------|-------------------------|--------------------------------|----------------|----------------|
| <b>S250FT-0</b>   | .25/6.35             | Black with White Tracer | .13 to .38/3.18 to 9.53        | 200 ft./60.96m | 1              |
| <b>S500FC-0</b>   | .50/12.70            | Black with White Tracer | .25 to .75/6.35 to 19.05       | 100 ft./30.48m | 1              |
| <b>S750FC-0</b>   | .75/19.05            | Black with White Tracer | .50 to 1.25/12.70 to 31.75     | 100 ft./30.48m | 1              |
| <b>S1250FL-0</b>  | 1.25/31.75           | Black with White Tracer | .75 to 1.75/19.05 to 44.45     | 50 ft./15.24m  | 1              |

NOTE: Order by spool, not per foot.



Enables for easy wrapping of existing wire harnesses and cables!

### PET Hook and Loop, Wraparound Sleevings — Mini Spool



| STD PKG. CAT. NO. | NOMINAL I.D. IN./MM. | COLOR | NOMINAL DIAMETER RANGE IN./MM. | SPOOL QUANTITY | STD. PKG. QTY. |
|-------------------|----------------------|-------|--------------------------------|----------------|----------------|
| <b>S500PWL-0</b>  | .50/12.70            | Black | .25 to .75/6.35 to 19.05       | 50 ft./15.24m  | 1              |
| <b>S750PWL-0</b>  | .75/19.05            | Black | .50 to 1.25/12.70 to 31.75     | 50 ft./15.24m  | 1              |
| <b>S1250PWL-0</b> | 1.25/31.75           | Black | .75 to 1.75/19.05 to 44.45     | 50 ft./15.24m  | 1              |
| <b>S2000PWL-0</b> | 2.00/50.80           | Black | 1.50 to 3.50/38.10 to 88.90    | 50 ft./15.24m  | 1              |

NOTE: Order by spool, not per foot.

- No tools required to close the sleeving
- Hook and loop material is made of 100% nylon



Convenient for rework without disrupting existing connection!

### Flame Retardant Hook and Loop, Wraparound Sleevings — Mini Spool



- Meets UL94V-1

| STD PKG. CAT. NO. | NOMINAL I.D. IN./MM. | COLOR                   | NOMINAL DIAMETER RANGE IN./MM. | SPOOL QUANTITY | STD. PKG. QTY. |
|-------------------|----------------------|-------------------------|--------------------------------|----------------|----------------|
| <b>S500FWL-0</b>  | .50/12.70            | Black with White Tracer | .25 to .75/6.35 to 19.05       | 50 ft./15.24m  | 1              |
| <b>S750FWL-0</b>  | .75/19.05            | Black with White Tracer | .50 to 1.25/12.70 to 31.75     | 50 ft./15.24m  | 1              |
| <b>S1250FWL-0</b> | 1.25/31.75           | Black with White Tracer | .75 to 1.75/19.05 to 44.45     | 50 ft./15.24m  | 1              |
| <b>S2000FWL-0</b> | 2.00/50.80           | Black with White Tracer | 1.50 to 3.50/38.10 to 88.90    | 50 ft./15.24m  | 1              |

NOTE: Order by spool, not per foot.



## Braided Expandable Wire Sleevings

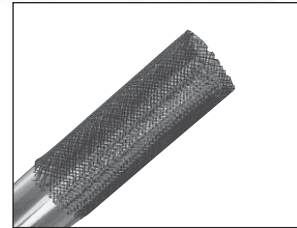
Buy in bulk and save!

### PET Braided Expandable Wire Sleevings — Bulk Reel



| BULK PKG. CAT. NO. | NOMINAL I.D. IN./MM. | COLOR | NOMINAL DIAMETER RANGE IN./MM. | REEL QUANTITY     | BULK PKG. QTY. |
|--------------------|----------------------|-------|--------------------------------|-------------------|----------------|
| S125PM-0           | .125/3.18            | Black | .09 to .250/2.39 to 6.35       | 1,000 ft./304.80m | 1              |
| S250PM-0           | .25/6.35             | Black | .125 to .375/3.18 to 9.53      | 1,000 ft./304.80m | 1              |
| S500PD-0           | .50/12.70            | Black | .25 to .75/6.35 to 19.05       | 500 ft./152.40m   | 1              |
| S750PK-0           | .75/19.05            | Black | .50 to 1.25/12.70 to 31.75     | 250 ft./76.20m    | 1              |
| S1250PK-0          | 1.25/31.75           | Black | .75 to 1.75/19.05 to 44.45     | 250 ft./76.20m    | 1              |
| S1500PT-0          | 1.50/38.10           | Black | 1.00 to 2.50/25.40 to 63.50    | 200 ft./60.96m    | 1              |
| S1750PT-0          | 1.75/44.45           | Black | 1.25 to 2.75/31.75 to 59.85    | 200 ft./60.96m    | 1              |
| S2000PT-0          | 2.00/50.80           | Black | 1.50 to 3.50/38.10 to 88.90    | 200 ft./60.96m    | 1              |
| S2500PT-0          | 2.50/63.50           | Black | 1.75 to 4.50/44.45 to 114.30   | 200 ft./60.96m    | 1              |

NOTE: Order by reel, not per foot.



Choose from a variety of reel sizes!

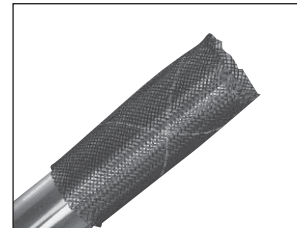
### Flame-Retardant Braided Expandable Wire Sleevings — Bulk Reel

For other colors, lengths, sizes and materials, please contact Customer Service.



| BULK PKG. CAT. NO. | NOMINAL I.D. IN./MM. | COLOR                   | NOMINAL DIAMETER RANGE IN./MM. | REEL QUANTITY     | BULK PKG. QTY. |
|--------------------|----------------------|-------------------------|--------------------------------|-------------------|----------------|
| S125FM-0           | .125/3.18            | Black with White Tracer | .09 to .250/2.39 to 6.35       | 1,000 ft./304.80m | 1              |
| S250FM-0           | .25/6.35             | Black with White Tracer | .125 to .375/3.18 to 9.53      | 1,000 ft./304.80m | 1              |
| S375FD-0           | .38/9.53             | Black with White Tracer | .19 to .63/4.75 to 15.88       | 500 ft./152.40m   | 1              |
| S500FD-0           | .50/12.70            | Black with White Tracer | .25 to .75/6.35 to 19.05       | 500 ft./152.40m   | 1              |
| S750FK-0           | .75/19.05            | Black with White Tracer | .50 to 1.25/12.70 to 31.75     | 250 ft./76.20m    | 1              |
| S750FK-9           | .75/19.05            | White with Black Tracer | .50 to 1.25/12.70 to 31.75     | 250 ft./76.20m    | 1              |
| S1250FK-0          | 1.25/31.75           | Black with White Tracer | .75 to 1.75/19.05 to 44.45     | 250 ft./76.20m    | 1              |
| S1750FT-0          | 1.75/44.45           | Black with White Tracer | 1.25 to 2.75/31.75 to 59.85    | 200 ft./60.96m    | 1              |
| S1750FT-9          | 1.75/44.45           | White with Black Tracer | 1.25 to 2.75/31.75 to 59.85    | 200 ft./60.96m    | 1              |
| S2000FT-0          | 2.00/50.80           | Black with White Tracer | 1.50 to 3.50/38.10 to 88.90    | 200 ft./60.96m    | 1              |
| S2500FT-0          | 2.50/63.50           | Black with White Tracer | 1.75 to 4.50/44.45 to 114.30   | 200 ft./60.96m    | 1              |

NOTE: Order by reel, not per foot.



The right tool for the job!

### Sleeving End Cutter/Sealer Tools

It's recommended that the sleeving be cut with a hot knife for a straight cut and to seal the ends, which prevents fraying.



| STD. PKG. CAT. NO. | DESCRIPTION                                | STD PKG. |
|--------------------|--------------------------------------------|----------|
| WTBM               | Benchmount End Cutter/Sealer Tool, 110V AC | 1        |



The most comfortable and efficient hand tool available for installing cable ties!

## Ty-Rap® Cable Tie Installation Tool

Thomas & Betts set out to develop a high performance and very reliable hand-operated cable tie installation tool. It's ergonomic with more features than any competing tool on the market. This new and improved Ty-Rap® Cable Tie Installation Tool is the result, and it fits the bill in every aspect.

Our engineers carefully considered user comfort and designed this rugged yet lightweight, well-balanced tool to reduce stress, fatigue and the risk of cumulative trauma injury to the hand and wrist. They didn't stop with ergonomics, however. This new tool offers a flush cable tie tail-to-head trim, a longer handle stroke requiring less handle force, higher tension capabilities and much, much more!



### Designed for Efficiency

- Wide cable-tie insertion gap makes it easier to insert tie into tool
- Tension adjustment wheel on nose offers easy access and quick setting — about five times faster than competing tools!
- Tension-locking mechanism maintains constant tension setting, even when tool is frequently put down and picked up again
- Flush tail-to-head cut-off eliminates sharp cable tie ends that can cut or scratch installers, wires and nearby devices
- Longest stroke length available on the market — a full 1" — means fewer handle-tensioning cycles to save time and lower installation costs

### Designed for Comfort

- 360° rotating nose offers maximum flexibility in any position, especially in tight spaces — no twisting of tool required!
- Adjustable grip span adapts to fit large or small hands
- Anti-recoil cut-off mechanism reduces shock and vibration to hand and wrist
- High-low handle travel feature offers lowest handle force with highest tension in any hand-operated cable tie installation tool on the market
- Handles constructed from rugged, lightweight, high-impact polymer in a balanced design with soft, over-molded, round-edged grips for added user comfort



### Specifications

- Dimensions: 7" (177mm) L x 5" (127mm) H x 1 5/8" (41.3mm) W
- Weight: 9 oz. (255g)

| STD. PKG. CAT. NO. | DESCRIPTION                                 | STD. PKG. QTY. |
|--------------------|---------------------------------------------|----------------|
| ERG50              | Tool for 18–50 lb. (80–222 N.) Cable Ties   | 1              |
| ERG120             | Tool for 50–120 lb. (222–533 N.) Cable Ties | 1              |

Boost productivity and reduce user fatigue in demanding, high-volume cable tie installations!

## Ty-Rap® Pneumatic Cable Tie Installation Tool

For fast, consistent installation of cable ties in high-volume applications, you can't beat the new Ty-Rap® Pneumatic Cable Tie Installation Tool. Pneumatic power combined with a balanced, ergonomic design enables you to tension and trim large quantities of Ty-Rap® cable ties in rapid succession with accuracy and one-button ease.

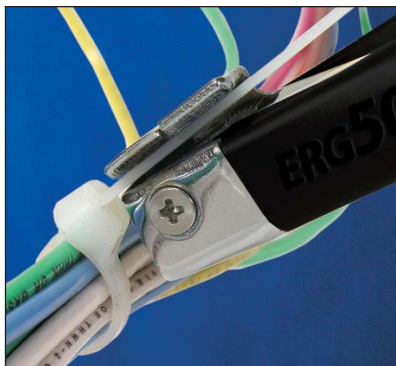
- Easy, one-step tensioning and cut-off of cable ties
- Narrow nose rotates 360° to maneuver in tight spaces
- Easy-access tension-adjustment wheel at nose with locking mechanism for repetitive-tension work
- Spare cutting blade storage in handle
- Cuts tail off flush — no sharp ends to injure installers or damage cables
- Holds tails captive until ejected by operator — no mess to clean up
- Soft, over-molded grip with over-sized trigger
- Wide cable-tie insertion gap — no fumbling to insert tie

### Specifications

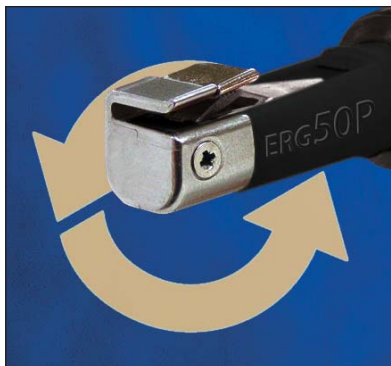
- Dimensions: 10"L x 6¼"H x 1½"D
- Weight: 14 oz.
- Operating Pressure: 85–100 psi (non-lubricated air)
- Cable Tie Tensile-Strength Range: 18–50 lbs.

**NEW!**

| CAT. NO. | DESCRIPTION                                                                        | STD. PKG. QTY. |
|----------|------------------------------------------------------------------------------------|----------------|
| ERG50P   | Pneumatic Cable Tie Installation Tool for 18–50 lb. Ties (includes 9-ft. air hose) | 1              |



Tightens cable tie and cuts flush in one step



360° rotating nose for maximum flexibility



Narrow-shaped nose for easy reach in tight spaces



# Ty-Rap®

## Ty-Rap® Cable Installation Tools

Lightweight. Economical. Durable.  
Perfect for spot-tying!

### Ty-Rap® Cable Tie Installation Tool — Light Duty

- Installs Ty-Rap cable ties up to .301" wide by .080" thick
- Designed for use by both left- and right-handed operators
- Lightweight, high-impact polymer and steel components

They cinch up the tie with a squeeze action, and cut away the excess tail when twisted 180°. A specially designed pawl cuts away the tail if the tension limit is exceeded, thereby preventing the cable tie from being over-tightened.

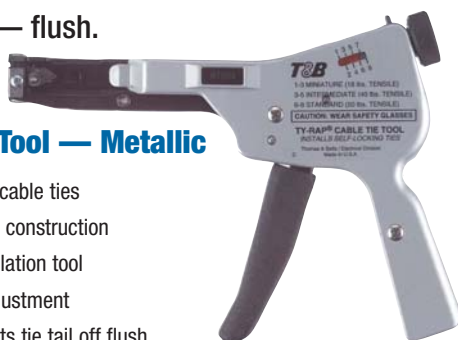


| STD. PKG. CAT. NO. | DESCRIPTION                                              | TIE BODY WIDTH IN./MM. | STD. PKG. QTY. |
|--------------------|----------------------------------------------------------|------------------------|----------------|
| WT1-TB             | Cable Tie Installation Tool, 18–50 lbs. (80–222.4 N)     | .09–.18/2.39–4.67      | 1              |
| WT2-TB             | Cable Tie Installation Tool, 50–120 lbs. (222.4–533.8 N) | .18–.301/4.67–7.65     | 1              |

Cuts tail off — flush.

### Ty-Rap® Cable Ties Installation Tool — Metallic

- Installs Ty-Rap® cable ties
- Rugged metallic construction
- Pistol-grip installation tool
- Easy tension adjustment
- Tensions and cuts tie tail off flush



| STD. PKG. CAT. NO. | DESCRIPTION                                          | TIE BODY WIDTH IN./MM. | STD. PKG. QTY. |
|--------------------|------------------------------------------------------|------------------------|----------------|
| WT193A             | Cable Tie Installation Tool, 18–50 lbs. (80–222.4 N) | .09–.18/2.39–4.67      | 1              |

Easy tension adjustment!

### Ty-Rap Heavy-Duty Installation Tool — Mil Spec Approved

- Installs Ty-Rap® cable ties
- Rugged metallic construction
- Pistol-grip installation tool
- Tensions and cut cable tie tail off flush



| STD. PKG. CAT. NO. | DESCRIPTION                                    | TIE BODY WIDTH IN./MM. | STD. PKG. QTY. |
|--------------------|------------------------------------------------|------------------------|----------------|
| WT199              | Installation Tool, 18–50 lbs. (80–222.4 N)     | .09–.18/2.39–4.67      | 1              |
| WT197              | Installation Tool, 50–120 lbs. (222.4–533.8 N) | .18–.30/4.67–7.65      | 1              |

\* Mil Spec Approved (WT199 — MS90387-1, WT197 — MS90387-2)

Get the job done right!

### Ty-Rap® Heavy-Duty Installation Tool — Stainless Steel

- Installs Ty-Rap® stainless steel cable ties
- Rugged stainless steel construction
- Pistol-type installation tool
- Adjustable tension settings



| STD. PKG. CAT. NO. | DESCRIPTION                       | TIE BODY WIDTH IN./MM. | STD. PKG. QTY. |
|--------------------|-----------------------------------|------------------------|----------------|
| DAS250             | Stainless Steel Installation Tool | Up to .31/7.87         | 1              |

Makes tie installation easy!

### Ty-Rap® Installation Tool — Deltec & Stainless Steel

#### WT3D

- Installs both self-locking Ty-Rap® cable ties and lashing ties

#### WT3S

- Installs stainless steel ties



| STD. PKG. CAT. NO. | DESCRIPTION                       | TIE BODY WIDTH IN./MM. | STD. PKG. QTY. |
|--------------------|-----------------------------------|------------------------|----------------|
| WT3D               | Deltec Installation Tool          | .18–.50/4.67–12.70     | 1              |
| WT3S               | Stainless Steel Installation Tool | up to .50/12.70        | 1              |

NOTE: Tensions only

**Thomas & Betts**

[www.tnb.com](http://www.tnb.com)

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

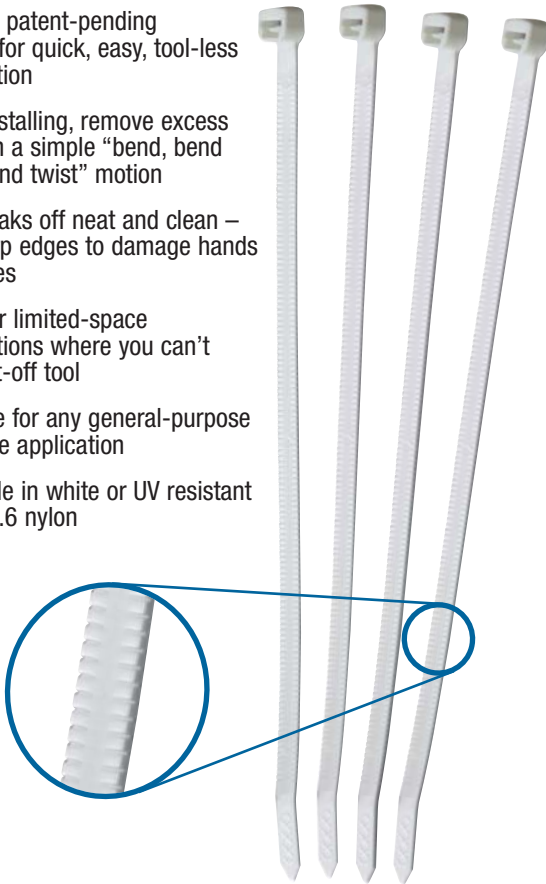
Technical Services  
Tel: 888.862.3289

Tail twists right off — no tools needed!

### Catamount® Twist Tail™ Cable Tie

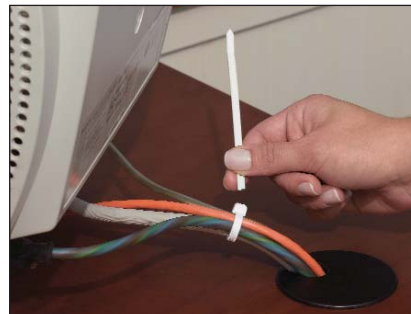


- Unique, patent-pending design for quick, easy, tool-less installation
- After installing, remove excess tail with a simple “bend, bend again and twist” motion
- Tail breaks off neat and clean — no sharp edges to damage hands or cables
- Ideal for limited-space installations where you can't fit a cut-off tool
- Suitable for any general-purpose cable tie application
- Available in white or UV resistant black 6.6 nylon



For fast and easy installation, you can't beat the Catamount® Twist Tail™ Cable Tie. After you secure the Twist Tail™ tie around a bundle of cables, simply grasp the excess tail between your thumb and forefinger, bend, bend in the other direction and twist. The tail breaks right off, leaving no sharp edges to scratch your hands or your cables. The Twist Tail cable tie makes tail removal easy with its unique, patent-pending design but still provides a full 50 lbs. minimum loop tensile strength — perfect for any general-purpose cable tie application.

| CAT. NO.     | LENGTH (IN.) | MIN. TENSILE STRENGTH (LBS.) | COLOR | STD. QTY. |
|--------------|--------------|------------------------------|-------|-----------|
| TT-7-50-9-C  | 7            | 50                           | White | 100       |
| TT-7-50-0-C  | 7            | 50                           | Black | 100       |
| TT-11-50-9-C | 11           | 50                           | White | 100       |
| TT-11-50-0-C | 11           | 50                           | Black | 100       |
| TT-14-50-9-C | 14           | 50                           | White | 100       |
| TT-14-50-0-C | 14           | 50                           | Black | 100       |



Ty-Rap®

## Catamount® Cable Ties

Catamount® Ties and Terminals fit the needs of general-purpose fastening and wire terminations. Installers quickly discover that Catamount products offer durable and value-priced cable bundling for a variety of commercial and residential construction applications. Electricians can also take advantage of other benefits in stocking Catamount products in their toolboxes, such as more terminals per bag in most popular sizes than leading comparable brands.

Catamount Ties and Terminals are offered in a wide range of sizes, styles and colors and meet listing requirements for most electrical termination and fastening projects. A choice of matching tools are also offered to provide quick and reliable installations.

## Miniature — Series 18



| CAT. NO.   | LENGTH (IN.) | MAX. BUNDLE DIA. | COLOR   | STD. QTY. |
|------------|--------------|------------------|---------|-----------|
| L-4-18-9-C | 4.0          | ¾                | Natural | 100       |
| L-4-18-0-C | 4.0          | ¾                | Black   | 100       |
| L-6-18-9-C | 6.4          | 1½               | Natural | 100       |
| L-6-18-0-C | 6.4          | 1½               | Black   | 100       |
| L-8-18-9-C | 8.0          | 2                | Natural | 100       |
| L-8-18-0-C | 8.0          | 2                | Black   | 100       |

Bulk packages available. Contact Customer Service.

Use QC-100, L-200, L-400-C or ERG-50 Installation Tools

## Intermediate — Series 30



| CAT. NO.    | LENGTH (IN.) | MAX. BUNDLE DIA. | COLOR   | STD. QTY. |
|-------------|--------------|------------------|---------|-----------|
| L-5-30-9-C  | 5.6          | 1¼               | Natural | 100       |
| L-5-30-0-C  | 5.6          | 1¼               | Black   | 100       |
| L-8-40-9-C  | 8.5          | 2                | Natural | 100       |
| L-8-40-0-C  | 8.5          | 2                | Black   | 100       |
| L-11-40-9-C | 11.5         | 3                | Natural | 100       |
| L-11-40-0-C | 11.5         | 3                | Black   | 100       |
| L-14-40-9-C | 14.5         | 4                | Natural | 100       |
| L-14-40-0-C | 14.5         | 4                | Black   | 100       |

Bulk packages available. Contact Customer Service.

Use QC-100, L-200, L-400-C or ERG-50 Installation Tools

## Standard — Series 50



| CAT. NO.    | LENGTH (IN.) | MAX. BUNDLE DIA. | COLOR   | STD. QTY. |
|-------------|--------------|------------------|---------|-----------|
| L-5-50-9-C  | 5.5          | 1                | Natural | 100       |
| L-5-50-0-C  | 5.5          | 1                | Black   | 100       |
| L-7-50-0-C  | 7.5          | 1½               | Natural | 100       |
| L-7-50-0-C  | 7.5          | 1½               | Black   | 100       |
| L-11-50-9-C | 11.1         | 3                | Natural | 100       |
| L-11-50-0-C | 11.1         | 3                | Black   | 100       |
| L-14-50-9-C | 14.1         | 4                | Natural | 100       |
| L-14-50-0-C | 14.1         | 4                | Black   | 100       |

Bulk packages available. Contact Customer Service.

Use QC-100, L-200, L-400-C or ERG-50 Installation Tools

## Heavy-Duty — Series 120



| CAT. NO.     | LENGTH (IN.) | MAX. BUNDLE DIA. | COLOR   | STD. QTY. |
|--------------|--------------|------------------|---------|-----------|
| L-8-120-9-C  | 8.0          | 2                | Natural | 100       |
| L-8-120-0-C  | 8.0          | 2                | Black   | 100       |
| L-11-120-9-C | 11.1         | 3                | Natural | 100       |
| L-11-120-0-C | 11.1         | 3                | Black   | 100       |
| L-14-120-9-C | 14.2         | 4                | Natural | 100       |
| L-14-120-0-C | 14.2         | 4                | Black   | 100       |
| L-18-120-9-L | 18.0         | 4¾               | Natural | 50        |
| L-18-120-0-L | 18.0         | 4¾               | Black   | 50        |
| L-24-120-9-L | 24.2         | 7                | Natural | 50        |
| L-24-120-0-L | 24.2         | 7                | Black   | 50        |
| L-28-120-9-L | 28.0         | 8                | Natural | 50        |
| L-28-120-0-L | 28.0         | 8                | Black   | 50        |

Use L-300C or ERG-120 Installation Tool

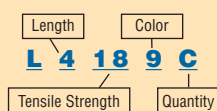
## Extra Heavy-Duty — Series 175



| CAT. NO.     | LENGTH (IN.) | MAX. BUNDLE DIA. | COLOR   | STD. QTY. |
|--------------|--------------|------------------|---------|-----------|
| L-24-175-9-L | 24.0         | 7.2              | Natural | 50        |
| L-24-175-0-L | 24.0         | 7.2              | Black   | 50        |
| L-34-175-9-L | 34.0         | 10               | Natural | 50        |
| L-36-175-9-L | 36.0         | 10¾              | Natural | 50        |
| L-36-175-0-L | 36.0         | 10¾              | Black   | 50        |
| L-41-175-9-L | 41.0         | 12               | Natural | 50        |
| L-41-175-0-L | 41.0         | 12               | Black   | 50        |
| L-48-175-9-L | 48.0         | 15               | Natural | 50        |
| L-48-175-0-L | 48.0         | 15               | Black   | 50        |

Use L-300C Installation Tool

## Sample Catalog Order:



4" Length, 18-lb. Tensile Strength, Natural Color, 100-Pack Quantity

## Color Table

0 – Black (UV Resistant)  
1 – Brown  
2 – Red  
3 – Orange  
4 – Yellow

5 – Green  
6 – Blue  
7 – Purple  
8 – Gray  
9 – Natural

11 – Fluorescent Pink  
16 – Fluorescent Orange  
17 – Fluorescent Yellow  
18 – Fluorescent Green  
20 – Fluorescent Blue

Thomas &amp; Betts

[www.tnb.com](http://www.tnb.com)

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

Technical Services  
Tel: 888.862.3289





### Releasable Ties



| CAT. NO.     | LENGTH (IN.) | MAX. BUNDLE DIA. | COLOR   | STD. QTY. |
|--------------|--------------|------------------|---------|-----------|
| L-5-50R-9-C  | 5.9          | ¼                | Natural | 100       |
| L-5-50R-0-C  | 5.9          | ¼                | Black   | 100       |
| L-8-50R-9-C  | 7.8          | 2                | Natural | 100       |
| L-8-50R-0-C  | 7.8          | 2                | Black   | 100       |
| L-10-50R-9-C | 11.265       | 3                | Natural | 100       |
| L-10-50R-0-C | 11.265       | 3                | Black   | 100       |

Bulk packages available. Contact Customer Service. Push button release.



### Push Mount Cable Ties



| CAT. NO.     | LENGTH (IN.) | MOUNTING HOLE | MAX. PANEL THICKNESS | MAX. BUNDLE DIA. | COLOR   | STD. QTY. |
|--------------|--------------|---------------|----------------------|------------------|---------|-----------|
| L-5-50PM-9-C | 5.8          | .250          | .105                 | 1                | Natural | 100       |
| L-5-50PM-0-C | 5.8          | .250          | .105                 | 1                | Black   | 100       |
| L-7-50PM-9-C | 8.2          | .250          | .105                 | 1½               | Natural | 100       |
| L-7-50PM-0-C | 8.2          | .250          | .105                 | 1½               | Black   | 100       |

Bulk packages available. Contact Customer Service.

Use QC-100, L-200, L-400-C Installation Tool

Black shown



### Mounting Head Ties

| CAT. NO.       | LENGTH (IN.) | MAX. BUNDLE DIA. | WIDTH (IN.) | MIN. LOOP TENSILE | MOUNTING HEAD SCREW SIZE | COLOR   | STD. QTY. |
|----------------|--------------|------------------|-------------|-------------------|--------------------------|---------|-----------|
| L-5-30MH-9-C   | 5.85         | 1¼               | .140        | 30                | No. 8                    | Natural | 100       |
| L-5-30MH-0-C   | 5.85         | 1¼               | .140        | 30                | No. 8                    | Black   | 100       |
| L-7-50MH-9-C   | 7.5          | 1¼               | .185        | 30                | No. 10                   | Natural | 100       |
| L-7-50MH-0-C   | 7.5          | 1¼               | .185        | 30                | No. 10                   | Black   | 100       |
| L-11-50MH-9-C  | 11.1         | 3                | .187        | 50                | No. 10                   | Natural | 100       |
| L-11-50MH-0-C  | 11.1         | 3                | .187        | 50                | No. 10                   | Black   | 100       |
| L-14-50MH-9-C  | 14.5         | 4                | .187        | 50                | No. 10                   | Natural | 100       |
| L-14-50MH-0-C  | 14.5         | 4                | .187        | 50                | No. 10                   | Black   | 100       |
| L-14-120MH-9-C | 14.85        | 4                | .300        | 120               | ¼"                       | Natural | 100       |
| L-14-120MH-0-C | 14.85        | 4                | .300        | 120               | ¼"                       | Black   | 100       |

Bulk packages available. Contact Customer Service. Use QC-100, L-200, L-400-C, ERG-120 or ERG-50 Installation Tool

### Releasable Push Mount Cable Ties



| CAT. NO.      | LENGTH (IN.) | MOUNTING HOLE | MAX. PANEL THICKNESS | MAX. BUNDLE DIA. | COLOR   | STD. QTY. |
|---------------|--------------|---------------|----------------------|------------------|---------|-----------|
| L-5-50PMR-9-C | 5.8          | .250          | .105                 | 1                | Natural | 100       |
| L-5-50PMR-0-C | 5.8          | .250          | .105                 | 1                | Black   | 100       |
| L-7-50PMR-9-C | 8.2          | .250          | .105                 | 1½               | Natural | 100       |
| L-7-50PMR-0-C | 8.2          | .250          | .105                 | 1½               | Black   | 100       |

Bulk packages available. Contact Customer Service.

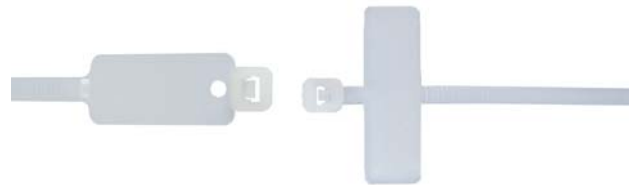
Use QC-100, L-200, L-400-C Installation Tool



### Identification Tags



| CAT. NO.      | WIDTH (IN.) | HEIGHT (IN.) | SLOT HEIGHT (IN.) | SLOT WIDTH (IN.) | COLOR   | STD. QTY. |
|---------------|-------------|--------------|-------------------|------------------|---------|-----------|
| IDNY-1500-9-M | 1.500       | .745         | .090              | .200             | Natural | 1,000     |
| IDNY-2000-9-M | 2.000       | .745         | .113              | .336             | Natural | 1,000     |



### Identification Ties

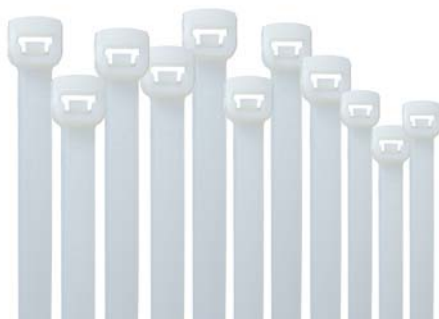
| CAT. NO.     | LENGTH (IN.) | MAX. BUNDLE DIA. | COLOR   | STD. QTY. |
|--------------|--------------|------------------|---------|-----------|
| L-7-50ID-9-C | 7.875        | 1¼               | Natural | 100       |
| L-4-18ID-9-C | 4.0          | ¾                | Natural | 100       |

Bulk packages available. Contact Customer Service.

Use QC-100, L-200 or L-400-C Installation Tool

**Ty-Rap®****Catamount® Cable Ties****Catamount® Cable Tie Assortment Packages**

- Natural nylon or black weather-resistant nylon
- Reusable jar
- Easily merchandised
- Great value
- Two size combinations and quantities



90650 and 90650-IUV

**Cable Tie Assortments — Natural Nylon**

| CAT. NO. | CONTENTS    | QTY. | BAGS/CASE |
|----------|-------------|------|-----------|
| CAT-711  | L-7-50-9-C  | 100  | 25        |
|          | L-11-50-9-C | 50   |           |
| CAT-4811 | L-4-18-9-C  | 100  | 35        |
|          | L-8-40-9-C  | 100  |           |
|          | L-11-50-9-C | 50   |           |
|          | L-11-50-9-C | 50   |           |
| CAT-5811 | L-5-30-9-C  | 200  | 35        |
|          | L-8-40-9-C  | 200  |           |
|          | L-11-50-9-C | 50   |           |
|          | L-11-50-9-C | 50   |           |

For UV Black assortments, add -B to Catalog Number.

**Cable Tie Jar**

| CAT. NO.  | LENGTH (IN.) | WIDTH | MAX. BUNDLE (IN.) | TENSILE STRENGTH | MATERIAL                      | JAR QTY. |
|-----------|--------------|-------|-------------------|------------------|-------------------------------|----------|
| 90457-I   | 4            | .100  | ¾ (.625)          | 18#              | Natural Nylon                 | 200      |
|           | 5.6          | .130  | 1¼ (1.25)         | 30#              |                               | 100      |
|           | 7.5          | .187  | 1¾ (1.75)         | 50#              |                               | 200      |
| 90457-IUV | 4            | .100  | ¾ (.625)          | 18#              | Black Weather-Resistant Nylon | 200      |
|           | 5.6          | .130  | 1¼ (1.25)         | 30#              |                               | 100      |
|           | 7.5          | .187  | 1¾ (1.75)         | 50#              |                               | 200      |
| 90650-I   | 4            | .100  | ¾ (.625)          | 18#              | Natural Nylon                 | 300      |
|           | 7.5          | .187  | 1¾ (1.75)         | 50#              |                               | 300      |
|           | 11.1         | .187  | 3                 | 50#              |                               | 50       |
| 90650-IUV | 4            | .100  | ¾ (.625)          | 18#              | Black Weather-Resistant Nylon | 300      |
|           | 7.5          | .187  | 1¾ (1.75)         | 50#              |                               | 300      |
|           | 11.1         | .187  | 3                 | 50#              |                               | 50       |

**Cable Tie Mounting Bases**

- ¾" and 1" mounts for use with 18# through 50# tensile cable ties
- Supplied on rubber-based or acrylic closed cell foam adhesive or with no adhesive for #6 screw mount applications
- Available in 6.6 Natural Nylon and 6.6 Black Nylon
- UL® Flammability 94 V-2 (clip)



| CAT. NO.        | MOUNT METHOD              | COLOR         |
|-----------------|---------------------------|---------------|
| <b>¾" Class</b> |                           |               |
| MPNY-750-9-C    | Synthetic Rubber Adhesive | Natural       |
| MPNY-750-0-C    | Synthetic Rubber Adhesive | Black         |
| MPNY-750A-9-C   | Acrylic Adhesive          | Natural       |
| MPNY-750A-0-C   | Acrylic Adhesive          | Black         |
| MPNY-750S-9-C   | #6 Screw                  | Natural       |
| MPNY-750S-0-C   | #6 Screw                  | Black         |
| <b>1" Class</b> |                           |               |
| MPNY-1000-9-C   | Synthetic Rubber Adhesive | Natural Nylon |
| MPNY-1000-0-C   | Synthetic Rubber Adhesive | Black Nylon   |
| MPNY-1000A-9-C  | Acrylic Adhesive          | Natural Nylon |
| MPNY-1000A-0-C  | Acrylic Adhesive          | Black Nylon   |
| MPNY-1000S-9-C  | #6 Screw                  | Natural Nylon |
| MPNY-1000S-0-C  | #6 Screw                  | Black Nylon   |

For use with 18–50 lb. Cable Ties

- Mounting Surface should be cleaned with alcohol based (IPA) cleaner before application
- Acrylic Based may be repositioned initially. Allow 24–72 hours setup for maximum performance with Acrylic Based adhesives
- For Rubber Based, allow 15 minutes setup for maximum performance

**Thomas&Betts**

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