## PANDUIT ${ }^{\text {® }}$ Cable Ties/Wiring Accessories Catalog-wW-CTCB03 <br> (replaces SA-101N275C-WC)

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## World Leader in Cable Ties and Wiring Accessories

PANDUIT ${ }^{\oplus}$ is a leading global producer of cable ties and wiring accessories, offering the most complete selection of sizes, styles and materials. We continually provide new cable tie and wiring accessory designs to meet the changing application challenges encountered by our customers while providing lowest installed costs.

PANDUIT ${ }^{\oplus}$ also offers the largest selection of ergonomic cable tie installation tools from high speed automatic systems to hand operated tools. So, whatever the need, PANDUIT ${ }^{\circledR}$ has the tool to help lower your total installed cost.
Assured Quality To help assure optimum quality, PANDUIT ${ }^{\oplus}$ products are designed and manufactured to meet applicable international, UL, military and customer standards:

ISO 9001

QS-9000

The International Standards Organization (ISO) establishes worldwide standards for products and services in recognition of increasing globalization of markets. The ISO program sets up the requirements for quality assurance systems of these worldwide standards. PANDUIT® is registered to ISO 9001, the most comprehensive model in the standard, meant for companies who design, manufacture, install and service the products they sell. Registration has been awarded by Underwriters Laboratories (Certificate No. A2269) after extensive audit of QA systems employed at PANDUIT ${ }^{\circledR}$.
QS-9000 is the shorthand name for "Quality System Requirements QS-9000." It is the common supplier quality standard for the automotive industry. QS-9000 is based on the 1994 edition of ISO 9001, but it contains additional requirements that are particular to the automotive industry. These additions are considered automotive "interpretations" by the ISO community of accreditation bodies and registrars. Registration has been awarded by Underwriters Laboratories Inc. (Certificate No. A2269) for PANDUIT ${ }^{\circledR}$ cable ties.

ISO14001


ISO14001 is a voluntary standard for Environmental Management Systems established by the International Organization for Standardization. The international standard provides a benchmark for continual improvement in environmental performance. Business partners can be confident that the PANDUIT ${ }^{\circledR}$ manufacturing facilities around the globe are engaged in an on-going process to maximize value while minimizing impact on global natural resources.

Underwriters Laboratories, Inc. (File E56854)


Most PANDUIT ${ }^{\circledR}$ miniature, intermediate, standard, light-heavy and heavy cross-section ties are Recognized (ZODZ(8)) or Listed in the US and Canada by Underwriters Laboratories (ZODZ(7)) in their Directory under the category "Wire Positioning Devices." Natural, pigmented and weather resistant cable ties are recognized for indoor use at temperatures up to $85^{\circ} \mathrm{C}\left(185^{\circ} \mathrm{F}\right)$. Weather resistant cable ties are also UL Listed for outdoor applications. Heat stabilized ties are UL Recognized and Listed for indoor use at temperatures up to $115^{\circ} \mathrm{C}\left(239^{\circ} \mathrm{F}\right)$.

Aerospace Standard AS23190


Nuclear Regulatory Commission

## Ford Motor Company



Aerospace Standard SAE spec AS23190 covers the actual test requirements on cable ties. PANDUIT ${ }^{\circledR}$ cable ties, when tested, either meet or exceed the requirements of this specification.

The NRC developed rules and regulations concerning Quality Assurance Criteria for Nuclear Power Plants or Title 10, Chapter 10, Part 50, Appendix B (10CFR50). PANDUIT ${ }^{\oplus}$ Corp. Quality Assurance program is designed to satisfy the 18 criteria set forth in NRC 10CFR50, Appendix B, Military Specification AS23190.

PANDUIT ${ }^{\circledR}$ has received Q1 certification status from Ford Motor Company. Q1 certification enables all PANDUIT ${ }^{\circledR}$ cable tie manufacturing facilities to approve all initial samples and production shipments of the parts destined for Ford operations throughout the world.

International Approvals Independent Testing Facilities


## Selection Guide

## PAN-TY ${ }^{\circledR}$ Cable Ties



This line offers the largest selection of styles, materials, and sizes. The ties are available in nylon 6.6, nylon 12 , polypropylene, HALAR* and TEFZEL** material. Available in sizes from .60" ( 15 mm ) maximum bundle diameter up to 13 " $(330 \mathrm{~mm})$ maximum bundle diameter. All are self-locking and many sizes are available in both releasable and non-releasable types. PAN-TY ${ }^{\oplus}$ Cable Ties are quickly installed by hand or with PANDUIT ${ }^{\oplus}$ installation tools.

## Dura-TY ${ }^{\text {Tm }}$ Cable Ties



DURA-TY ${ }^{\text {TM }}$ is a heavy-duty cable tie that is ideal for all outdoor applications requiring high strength and longer life. The acetal strap and head provides excellent UV light resistance and high tensile strength. The smooth, rounded edges on the head and body do not irritate the hands. The ties are easy to install. Available in standard lengths or dispenser rolls for easy, cut to length convenience in custom applications.

DOME-TOP ${ }^{\circledR}$ Barb Ty Cable Ties


These cable ties provide consistent performance and reliability for those users who prefer a cable tie with a stainless steel locking barb. They are infinitely adjustable through their entire bundle range. On selected popular sizes, the additional length of Dome-Top ${ }^{\circledR}$ Barb Ty Cable Ties provides an average of $30 \%$ more bundle area than other metal barb cable ties. Available in sizes from .90" (23mm) maximum bundle diameter up to 9.0" (229mm) maximum bundle diameter and may be installed by hand or with PANDUIT® installationtools.

Parallel Entry Cable Ties


Parallel Entry Ties are comprised of the Contour-TY ${ }^{\oplus}$, BeLt-TY ${ }^{\text {TM }}$ and IN-LINE Cable Tie families. Contour-TY ${ }^{\circledR}$ Cable Tie's fully enclosed locking wedge insures consistent strength, lasting performance and it is available in a new heavystandard cross section. BELT-TY ${ }^{\text {TM }}$ Cable Ties have low profile heads which help avoid snags and reduce overall bundle size. IN-LINE Cable Ties are exceptional for applications that require conformity to large bundles. Unique IN-LINE design forms completely around the bundle, increasing the contact area. Serrations on the side of the head assure positive grip during threading of the tie and increases installation speed.

## Selection Guide (cont.)

Tak-Ty ${ }^{\circledR}$ Hook \& Loop Cable Ties


PANDUIT ${ }^{\oplus}$ TAK-TY ${ }^{\circledR}$ Hook \& Loop CableTies are ideal for applications that require frequent cabling moves, adds and changes. They can be used to secure a wide variety of various sizes of cable bundles. Wide color choice allows for quick and easy color coding of separate cable bundles.

Specialty Ties


PANDUIT ${ }^{\oplus}$ continually develops new products to help solve the unique application problems of our customers. One of these products is the polyethylene cable marker strap that is used for identifying telephone and fiber optic cable, which typifies the design/manufacturing capability of PANDUIT ${ }^{\oplus}$ to respond to these special needs.

Sta-Strap ${ }^{\circledR}$ Cable Ties


Sta-Strap ${ }^{\oplus}$ Cable Ties offer several unique features. Harness modifications during assembly are made easy as the two-piece design affords releasability prior to final tensioning and cut-off. The ties are extremely flexible and lightweight. They also provide the lowest thread force in the industry which reduces operator fatigue. The unique design allows this cable tie to secure a bundle directly to a panel without the need for additional fasteners or mounting devices and reduces installation costs.

Stainless Steel Ties and Strapping


Underground, underwater, indoors, outdoors - however hostile the environment - PANDUIT ${ }^{\oplus}$ Stainless Steel Ties and Strapping fasten and identify components and cables quickly and easily. Stainless steel ties stand up to most chemicals, to nuclear and ultraviolet radiation, to seawater and direct burial in any soil, and to temperature extremes from $-112^{\circ} \mathrm{F}$ to $1700^{\circ} \mathrm{F}\left(-80^{\circ} \mathrm{C}\right.$ to $\left.925^{\circ} \mathrm{C}\right)$.

## Pan-TY ${ }^{\oplus}$ Cable Tie Features/Benefits:

## 1. One Piece Construction



- Consistent performance and reliability
- Available in lengths from 2.8" ( 71 mm ) up to $43.3^{\prime \prime}$ $(1100 \mathrm{~mm})$ to meet a variety of application requirements


## 4. Curved Tip



- Orients tip toward head to speed installation - lowers installed cost
- Faster initial threading
- Easier to pick up from flat surfaces


## 7. Low Threading Force



- Lowest threading force of any one piece cable tie in the industry
- Reduces operator fatigue
- Thin tapered tip facilitates threading, easier initial insertion


## 2. Smooth, Round Edges



- No irritation to installer's hands, increases productivity
- Prevents damage to wire insulation


## 5. Finger Tip Grip



- Finger tip grip on selected sizes assures positive grip during threading of the tie
- Grip prevents tip from slipping out of cable tie head during threading


## 8. One Piece Locking Design



- Multiple locking tooth design provides greater strength and reliability
- Available in self locking or releasable styles for use in applications where changes are anticipated


## 3. Tensile Strength



- Exceeds Industry and Aerospace Standards SAE (AS23190) standards
- Available in seven loop tensile strengths from 8 lbs . (36N) up to 250 lbs. (1112N) to provide an economical selection


## 6. More Teeth Per Inch



- Greater number of small uniform teeth provides tighter bundles
- Because they are flush with surface they provide proper wire bundle grip without wire insulation damage

9. Material Availability


- Available in a variety of materials to meet the needs of special environments
- Properly selected ties can be used indoors or outdoors with assurance of long lasting performance


## PANDUIT ${ }^{\text {® }}$ NyIon 6.6 Locking Cable Ties (PLT Series)

PAN-TY ${ }^{\circledR}$ Nylon 6.6 Locking Cable Ties Curved Tip


These versatile fasteners can be used in countless applications wherever you need to bundle wire, cable, or hose. They tie bundle diameters up to 13 " (330mm), they also can be joined together for even larger diameters. They have a minimum loop tensile strength from 8 lbs. (36N) to 250 lbs . (1112N). Colors are available for specific color-coding applications (see pages 24-26).


Cable Ties for Automatic Tools See Page 61.
SUBMINIATURE AND MINIATURE CROSS SECTION

| Part Number | $\begin{array}{\|c} \text { Length } \\ \text { A } \\ \text { in. (mm) } \\ \hline \end{array}$ | $\begin{array}{\|c} \hline \text { Width } \\ \text { B } \\ \text { in. (mm) } \\ \hline \end{array}$ | $\begin{aligned} & \text { Thickness } \\ & \text { C } \\ & \text { in. (mm) } \\ & \hline \end{aligned}$ | Head Height D in. (mm) | Head <br> Width E <br> in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| PLT.6SM-C | $\begin{array}{r} 2.8 \\ (71) \\ \hline \end{array}$ | $\begin{array}{r} .070 \\ (1.8) \\ \hline \end{array}$ | $\begin{array}{r} .030 \\ (.8) \\ \hline \end{array}$ | $\begin{array}{r} .095 \\ (2.4) \\ \hline \end{array}$ | $\begin{array}{r} .125 \\ (3.2) \\ \hline \end{array}$ | $\begin{array}{r} .60 \\ (15) \\ \hline \end{array}$ | $\begin{gathered} 8 \\ (36) \\ \hline \end{gathered}$ | GTS, PTS | 100 | 1000 | 1000 | 50000 |
| PLT.7M-C | $\begin{array}{r} 3.1 \\ (79) \\ \hline \end{array}$ | $\begin{aligned} & \hline .090 \\ & (2.3) \\ & \hline \end{aligned}$ | $\begin{gathered} .032 \\ (.8) \\ \hline \end{gathered}$ | $\begin{array}{r} .115 \\ (2.9) \\ \hline \end{array}$ | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{array}{r} \hline .68 \\ (17) \\ \hline \end{array}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 50000 |
| PLT1M-C | $\begin{array}{r} 3.9 \\ (99) \\ \hline \end{array}$ | $\begin{aligned} & .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & .043 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & .154 \\ & (3.9) \end{aligned}$ |  | $\begin{array}{r} \hline .87 \\ (22) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 50000 |
| PLT1.5M-C | $\begin{gathered} \hline 5.6 \\ (142) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 1.25 \\ & (32) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 50000 |
| PLT2M-C | $\begin{gathered} \hline 8.0 \\ (203) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |

INTERMEDIATE CROSS SECTION

| PLT1.5I-C | $\begin{gathered} \hline 5.6 \\ (142) \\ \hline \end{gathered}$ | . 142 | . 045 | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | . 240 | $\begin{aligned} & 1.38 \\ & (35) \\ & \hline \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT21-C | $\begin{gathered} 8.0 \\ (203) \\ \hline \end{gathered}$ | (3.6) | (1.1) |  | (6.1) | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| PLT2.51-C | $\begin{gathered} 9.7 \\ (246) \\ \hline \end{gathered}$ | $\begin{aligned} & .145 \\ & (3.7) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ |  | $\begin{aligned} & .260 \\ & (6.6) \end{aligned}$ | $\begin{aligned} & \hline 2.50 \\ & (64) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT31-C | $\begin{array}{r} 11.4 \\ (290) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT4I-C | $\begin{array}{r} 14.5 \\ (368) \end{array}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 10000 |

STANDARD CROSS SECTION

| PLT1S-C | $\begin{gathered} \hline 4.8 \\ (122) \\ \hline \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .316 \\ & (8.0) \end{aligned}$ | $\begin{aligned} & 1.00 \\ & (25) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT1.5S-C | $\begin{gathered} 6.2 \\ (157) \end{gathered}$ |  |  |  |  | $\begin{aligned} & \hline 1.50 \\ & (38) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| PLT2S-C | $\begin{gathered} \hline 7.4 \\ (188) \end{gathered}$ |  |  |  |  | $\begin{aligned} & \hline 1.88 \\ & (48) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT2.5S-C | $\begin{gathered} 9.8 \\ (249) \end{gathered}$ |  |  |  | $\begin{aligned} & .337 \\ & (8.6) \end{aligned}$ | $\begin{aligned} & \hline 2.50 \\ & (64) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT3S-C | $\begin{aligned} & 11.5 \\ & (292) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT4S-C | $\begin{array}{r} 14.5 \\ (368) \end{array}$ |  |  |  |  | $\begin{gathered} 4.00 \\ (102) \end{gathered}$ |  |  | 100 | 1000 | 1000 | 5000 |
| PLT4.5S-C | $\begin{array}{r} 15.5 \\ (394) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 4.50 \\ (114) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 5000 |
| PLT5S-C | $\begin{aligned} & 17.5 \\ & (445) \end{aligned}$ |  |  |  |  | $\begin{array}{r} 5.00 \\ (127) \\ \hline \end{array}$ |  |  | 100 | 500 | 1000 | 5000 |

## PANDUIT ${ }^{\text {® }}$ Nylon 6.6 Locking Cable Ties (PLT Series)

Light-Heavy and
Heavy Cross Section


LISTED
Except PLT5H, 6H, 8H and 13H

|  |  |  |  |
| :--- | :---: | :---: | :---: |
|  | Length | Width | Thickness |
| Part | A | B | C |
| Number | in. (mm) | in. (mm) | in. (mm) |


| Head Height D in. (mm) | Head <br> Width E in. (mm) | Max. <br> Bundle Dia. <br> in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Std. | Std. | Bulk | Bulk |
|  |  |  |  |  | Pkg. | Ctn. | Pkg. | Ctn. |
|  |  |  |  |  | Qty. | Qty. | Qty. | Qty. |

LIGHT-HEAVY CROSS SECTION

| PLT6LH-L | $\begin{gathered} 21.9 \\ (556) \\ \hline \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{array}{r} .075 \\ (1.9) \end{array}$ | $\begin{aligned} & .325 \\ & (8.3) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{array}{r} 6.00 \\ (152) \\ \hline \end{array}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | $\begin{aligned} & \text { GTH, GS4H, } \\ & \text { GS4EH } \\ & \text { PPTEH, ST2EH } \\ & \text { or STH2 } \end{aligned}$ | 50 | 500 | 100 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT7LH-L | $\begin{aligned} & \hline 24.7 \\ & (627) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{gathered} 7.00 \\ (178) \\ \hline \end{gathered}$ |  |  | 50 | 500 | 100 | 2000 |
| PLT8LH-L | $\begin{aligned} & 27.6 \\ & (701) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 8.00 \\ & (203) \end{aligned}$ |  |  | 50 | 500 | 100 | 2000 |
| PLT9LH-L | $\begin{aligned} & 30.5 \\ & (775) \end{aligned}$ |  |  |  |  | $\begin{gathered} 9.00 \\ (229) \\ \hline \end{gathered}$ |  |  | 50 | 500 | 100 | 1000 |
| PLT1 OLH-L | $\begin{array}{r} 34.3 \\ (871) \end{array}$ |  |  |  |  | $\begin{aligned} & 10.31 \\ & (262) \end{aligned}$ |  |  | 50 | 1000 | 100 | 1000 |

HEAVY CROSS SECTION

| PLT2H-L | $\begin{gathered} \hline 8.1 \\ (206) \\ \hline \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & .290 \\ & (7.4) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | $\begin{gathered} \text { GTH, GS4H, } \\ \text { GS4EH } \\ \text { PPTEH, ST2EH } \\ \text { or STH2 } \end{gathered}$ | 50 | 500 | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT2.5H-L | $\begin{gathered} \hline 9.8 \\ (251) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 2.50 \\ & \text { (64) } \\ & \hline \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |
| PLT3H-L | $\begin{gathered} 11.4 \\ (290) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |
| PLT4H-L | $\begin{gathered} 14.5 \\ (368) \end{gathered}$ |  |  |  |  | $\begin{gathered} 4.00 \\ (102) \end{gathered}$ |  |  | 50 | 500 | 250 | 2500 |
| PLT5H-L | $\begin{gathered} 17.7 \\ (450) \end{gathered}$ | $\begin{aligned} & .350 \\ & (8.9) \end{aligned}$ | $\begin{aligned} & .078 \\ & (2.0) \end{aligned}$ | $\begin{array}{r} .340 \\ (8.6) \end{array}$ | $\begin{gathered} .560 \\ (14.2) \end{gathered}$ | $\begin{aligned} & 5.00 \\ & (127) \\ & \hline \end{aligned}$ | $\begin{gathered} 175 \\ (778) \end{gathered}$ |  | 50 | 500 | 100 | 2500 |
| PLT6H-L | $\begin{aligned} & 20.9 \\ & (530) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 6.00 \\ & (152) \end{aligned}$ |  |  | 50 | 500 | 100 | 2000 |
| PLT8H-L | $\begin{gathered} 30.6 \\ (779) \end{gathered}$ |  |  |  |  | $\begin{gathered} 9.00 \\ (229) \end{gathered}$ |  |  | 50 | 500 | 100 | 1000 |
| PLT13H-Q | $\begin{gathered} 43.3 \\ (1100) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 13.00 \\ & (330) \\ & \hline \end{aligned}$ |  |  | 25 | 500 | 100 | 500 |

## PAN-TY ${ }^{\oplus}$ Locking Lashing Ties



Lashing Ties typically are used on heavy duty jobs such as securing conduit or large cable bundles to permanent structures, indoors or out. Can be used with MCEH mounting clip (see page 16).


| Part Number | Length <br> A <br> in. (mm) | Width$B$in. (mm) | $\begin{aligned} & \text { Thickness } \\ & \text { C } \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ | HeadHeight D | Head Width E <br> in. (mm) | Max. Bundle Dia. | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |

EXTRA-HEAVY CROSS SECTION

| PLT2EH-C $\ddagger$ | $\begin{gathered} 9.0 \\ (229) \end{gathered}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\stackrel{.40}{(10.2)}$ | $\begin{gathered} .80 \\ (20.3) \end{gathered}$ | $\begin{array}{r} 2.00 \\ (51) \\ \hline \end{array}$ | $\begin{gathered} 250 \\ (1112) \end{gathered}$ | $\begin{aligned} & \text { GS4EH, PPTEH } \\ & \text { or ST2EH } \end{aligned}$ | - | - | 100 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT5EH-Q■ | $\begin{aligned} & 20.1 \\ & (511) \end{aligned}$ |  |  |  |  | $\begin{gathered} 5.00 \\ (127) \end{gathered}$ |  |  | 25 | 250 | 100 | 1000 |
| PLT6EH-Q■ | $\begin{aligned} & 22.2 \\ & (564) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 6.00 \\ & (152) \\ & \hline \end{aligned}$ |  |  | 25 | 250 | 100 | 1000 |
| PLT8EH-C $\ddagger$ | $\begin{aligned} & \hline 28.3 \\ & (719) \\ & \hline \end{aligned}$ |  | $\begin{aligned} & .085 \\ & (2.2) \end{aligned}$ |  |  | $\begin{array}{r} \hline 8.00 \\ (203) \\ \hline \end{array}$ |  |  | - | - | 100 | 1000 |
| PLT10EH-C $\ddagger$ | $\begin{gathered} 34.2 \\ (869) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 10.00 \\ & (254) \end{aligned}$ |  |  | - | - | 100 | 500 |
| PLT12EH-C $\ddagger$ | $\begin{gathered} \hline 40.1 \\ (1019) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 12.00 \\ & (305) \\ & \hline \end{aligned}$ |  |  | - | - | 100 | 500 |

All part numbers shown in standard package quantities unless denoted by $\ddagger$.

- Available without buckle for applications that do not require mounting.


## PANDUIT ${ }^{\oplus}$ Nylon 6.6 Releasable Cable Ties (PRT Series)

## PAN-TY ${ }^{\circledR}$ Releasable Nylon 6.6 Cable Ties



To release, grasp the head of the cable tie, deflect release tab and pull the cable tie away from the bundle.

The extended tab end of releasable cable ties permits easy release and re-use even after the tie has been pulled up snug by hand. Releasable ties are particularly useful in applications where changes are anticipated during development, production or servicing in the field.


|  |  |  |  | ea | Hea | Max. <br> Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Length A in. (mm) | $\begin{gathered} \text { Width } \\ B \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \end{gathered}$ | $\begin{gathered} \text { Height } \\ D \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Width } \\ & E \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

STANDARD CROSS SECTION

| PRT1S-C | $\begin{gathered} \hline 4.8 \\ (122) \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{array}{r} .219 \\ \text { (5.6) } \end{array}$ | $\begin{array}{r} .316 \\ (8.0) \end{array}$ | $\begin{aligned} & 1.00 \\ & (25) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | Hand Installed Only | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRT1.5S-C | $\begin{gathered} 6.3 \\ (160) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PRT2S-C | $\begin{gathered} \hline 7.4 \\ (188) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 1.88 \\ & (48) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PRT3S-C | $\begin{aligned} & 11.5 \\ & (292) \end{aligned}$ |  |  |  | $\begin{array}{r} .337 \\ (8.6) \end{array}$ | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PRT4S-C | $\begin{array}{r} 14.5 \\ (368) \end{array}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 5000 |

HEAVY CROSS SECTION

| PRT2H-L | $\begin{gathered} \hline 8.4 \\ (213) \\ \hline \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 80 \\ (356) \end{gathered}$ | Hand Installed Only | 50 | 500 | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRT3H-L | $\begin{gathered} \hline 11.4 \\ (290) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |
| PRT4H-L | $\begin{array}{r} 14.5 \\ (368) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 50 | 500 | 250 | 2500 |

## PAN-TY ${ }^{\circledR}$ Releasable Lashing Ties — Nylon 6.6



|  |  |  |  |  | Head | Ma |  | Recommended | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | $\begin{gathered} \text { Length } \\ A \\ \text { in. (mm) } \end{gathered}$ | $\begin{gathered} \text { Width } \\ B \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \end{gathered}$ | $\begin{gathered} \text { Height } \\ D \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Width } \\ & \text { E } \\ & \text { in. (mm) } \end{aligned}$ | Bundle Dia. in. (mm) | Tensile Strength Lbs. (N) | PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

EXTRA-HEAVY CROSS SECTION

| PRT2EH-C $\ddagger$ | $\begin{gathered} 9.0 \\ (229) \end{gathered}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{gathered} .40 \\ (10.2) \end{gathered}$ | $\begin{gathered} .80 \\ (20.3) \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ | $\begin{gathered} 250 \\ (1112) \end{gathered}$ | Hand Installed Only | - | - | 100 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRT5EH-Q | $\begin{gathered} 20.1 \\ (510) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{gathered} 5.00 \\ (127) \end{gathered}$ |  |  | 25 | 250 | 100 | 1000 |
| PRT6EH-Q | $\begin{aligned} & 22.2 \\ & (564) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{gathered} 6.00 \\ (152) \end{gathered}$ |  |  | 25 | 250 | 100 | 1000 |
| PRT8EH-C $\ddagger$ | $\begin{aligned} & 28.3 \\ & (719) \end{aligned}$ |  | $\begin{aligned} & .085 \\ & (2.2) \end{aligned}$ |  |  | $\begin{aligned} & 8.00 \\ & (203) \end{aligned}$ |  |  | - | - | 100 | 1000 |
| PRT10EH-C $\ddagger$ | $\begin{gathered} 34.2 \\ (869) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 10.00 \\ & (254) \end{aligned}$ |  |  | - | - | 100 | 500 |
| PRT12EH-C $\ddagger$ | $\begin{gathered} 40.1 \\ (1019) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 12.00 \\ & (305) \end{aligned}$ |  |  | - | - | 100 | 500 |

## PANDUIT ${ }^{\ominus}$ Nylon 6.6 Locking Clamp Ties (PLC Series)

## PAN-TY ${ }^{\oplus}$ Nylon 6.6

## Clamp Ties



Clamp ties are used to attach a bundle to another surface such as a control panel, wall or ceiling using another fastener. The design allows for bundling before or after screwing clamp in place.


A REF


LISTED

| Part Number | Length$A$in. $(\mathrm{mm})$ | WidthBin. $(\mathrm{mm})$ | Thickness C in. (mm) | Boss <br> Height D in. (mm) | Boss Width E <br> in. (mm) | Hole Dia. F <br> in. (mm) | $\left\|\begin{array}{c} \text { Screw } \\ \text { Size } \\ \text { Metric) } \end{array}\right\|$ | Max. Bundle Dia. | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\oplus}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |

MINIATURE CROSS SECTION

| PLC1M-S4-C | $\begin{gathered} 4.3 \\ (110) \end{gathered}$ | $\begin{aligned} & .100 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .153 \\ & (3.9) \end{aligned}$ | $\begin{aligned} & .239 \\ & (6.1) \end{aligned}$ | $\begin{aligned} & .118 \\ & (3.0) \end{aligned}$ | $\begin{gathered} \# 4 \\ (\mathrm{M} 2.5) \end{gathered}$ | $\begin{gathered} .75 \\ (20) \end{gathered}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

INTERMEDIATE CROSS SECTION

| PLC1.5I-S8-C | $\begin{gathered} 6.1 \\ (156) \end{gathered}$ | $\begin{aligned} & .135 \\ & (3.4) \end{aligned}$ | $\begin{aligned} & .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .166 \\ & (4.2) \end{aligned}$ | $\begin{aligned} & .335 \\ & (8.5) \end{aligned}$ | $\begin{aligned} & .172 \\ & (4.4) \end{aligned}$ | $\begin{gathered} \text { \#8 } \\ \text { (M4) } \end{gathered}$ | $\begin{aligned} & 1.25 \\ & (32) \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

STANDARD CROSS SECTION

| PLC2S-S6-C | $\begin{gathered} 7.9 \\ (201) \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | . 047 | . 160 | $\begin{aligned} & .373 \\ & (9.5) \end{aligned}$ | $\begin{aligned} & .145 \\ & (3.7) \end{aligned}$ | $\begin{gathered} \text { \#6 } \\ \text { (M3) } \end{gathered}$ | 1.84 | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLC2S-S10-C | $\begin{gathered} 7.9 \\ (201) \\ \hline \end{gathered}$ |  | .2) | (4.1) |  | $\begin{aligned} & .206 \\ & (5.2) \end{aligned}$ | $\begin{aligned} & \# 10 \\ & \text { (M5) } \\ & \hline \end{aligned}$ | (47) |  |  | 100 | 1000 | 1000 | 10000 |
| PLC3S-S10-C | $\begin{aligned} & 12.0 \\ & (305) \end{aligned}$ |  | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ |  |  | $\begin{aligned} & \hline \# 10 \\ & \text { (M5) } \\ & \hline \end{aligned}$ | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 5000 |
| PLC4S-S10-C | $\begin{aligned} & 15.0 \\ & (381) \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & \hline \# 10 \\ & \text { (M5) } \\ & \hline \end{aligned}$ | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 5000 |

HEAVY CROSS SECTION

| PLC2H-S25-L | $\begin{gathered} 9.0 \\ (228) \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & .265 \\ & (6.7) \end{aligned}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{aligned} & .260 \\ & (6.6) \end{aligned}$ | $\begin{gathered} 1 / 4 \\ \text { (M6) } \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | GTH, GS4H, GS4EH,PPTEH STH2 or ST2EH | 50 | 500 | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLC4H-S25-L | $\begin{gathered} 15.1 \\ (384) \end{gathered}$ |  |  |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |

## PANDUIT ${ }^{\oplus}$ Nylon 6.6 Marker and Flag Ties (PLF/PLM Series)

Pan-Ty® ${ }^{\text {N }}$ Nylon 6.6 Marker and Flag Ties

Marker and Flag Ties fasten and identify bundles at the same time. They can be marked with PANDUIT ${ }^{\circledR}$ Marker Pens or you can use PANDUIT ${ }^{\circledR}$ Custom Hot Stamping Service.

${ }^{7} \mathrm{Al}_{\mathrm{us}}$


PLM1M PLM2M


PLF1M


PLF1MA


PLF1MB

|  |  |  |  |  |  |  |  |  | Recommen | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Length A in. (mm $)$ | $\begin{array}{\|c\|} \hline \text { Width } \\ \text { B } \\ \text { in. (mm) } \end{array}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Height } \\ & D \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Width } \\ & \text { E } \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ | Write-on <br> Area <br> in. (mm) | Bundle Dia. <br> in. (mm) | Tensile Strength Lbs. (N) | PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Std. <br> Pkg. Qty.* | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |

MINIATURE CROSS SECTION

| PLF1 M-C | $\begin{gathered} 4.3 \\ (109) \end{gathered}$ | $\begin{aligned} & .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & .045 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & .154 \\ & (3.9) \end{aligned}$ | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{gathered} .31 \times .75 \\ (7.9 \times 19.1) \end{gathered}$ | . 87 | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLF1 MA-C | $\begin{gathered} 5.1 \\ (130) \end{gathered}$ |  |  |  |  | $\begin{gathered} .76 \times 1.04 \\ (19.1 \times 26.4) \\ \hline \end{gathered}$ |  |  |  | 100 | 1000 | 1000 | 25000 |
| PLF1MB-C | $\begin{gathered} 4.0 \\ (101) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{gathered} .31 \times .92 \\ (7.9 \times 23.4) \\ \hline \end{gathered}$ | $\begin{array}{r} .75 \\ \text { (19) } \end{array}$ |  |  | 100 | 1000 | 1000 | 25000 |
| PLM1 M-C | $\begin{array}{r} 3.9 \\ (99) \\ \hline \end{array}$ |  | $\begin{aligned} & .035 \\ & (.9) \end{aligned}$ |  |  | $\begin{gathered} .26 \times .95 \\ (6.6 \times 24.1) \end{gathered}$ |  |  |  | 100 | 1000 | 1000 | 10000 |
| PLM2M-C | $\begin{gathered} 8.0 \\ (203) \end{gathered}$ |  |  |  |  |  | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |



PLM2S
PLM4S


PL2M2S


PL3M2S

|  |  |  |  |  |  |  |  |  |  | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Length $A$ in. (mm) | $\begin{array}{\|c\|} \hline \text { Width } \\ \text { B } \\ \text { in. (mm) } \end{array}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \\ \hline \end{gathered}$ | Head <br> Height D <br> in. (mm) | Head <br> Width E in. (mm) | Write-on <br> Area <br> in. (mm) | Max. <br> Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |

STANDARD CROSS SECTION

| PLM2S-C | $\begin{gathered} \hline 7.4 \\ (188) \\ \hline \end{gathered}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | $\begin{gathered} \hline 44 \times .87 \\ (11.1 \times 22.1) \\ \hline \end{gathered}$ | $\begin{aligned} & 1.75 \\ & (45) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | $\begin{gathered} \text { GTS, GS2B, } \\ \text { GTH, GS4H, } \\ \text { PTS, PPTS, } \\ \text { STS2 } \\ \text { or STH2 } \end{gathered}$ | 100 | 1000 | 500 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLM4S-C | $\begin{aligned} & 14.6 \\ & (371) \end{aligned}$ |  |  |  |  | $\begin{gathered} .44 \times 2.00 \\ (11.1 \times 50.8) \end{gathered}$ | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 100 | 1000 | 500 | 5000 |
| PL2M2S-L | $\begin{gathered} \hline 7.4 \\ (188) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{gathered} .87 \times 1.07 \\ (22.1 \times 27.2) \end{gathered}$ | $\begin{aligned} & \hline 1.75 \\ & (45) \end{aligned}$ |  |  | 50 | 500 | 500 | 2500 |
| PL3M2S-L | $\begin{gathered} \hline 7.4 \\ (188) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{gathered} .87 \times 1.79 \\ (22.1 \times 45.5) \end{gathered}$ | $\begin{aligned} & 1.75 \\ & (45) \end{aligned}$ |  |  | 50 | 500 | 500 | 2500 |

Marker Ties are also available in weather resistant black nylon for outdoor use. May be marked with PANDUIT® PX-10 White Marking Pen found on page 105.

Custom Hot Stamping Available; See page 52.

## PANDUIT ${ }^{\circledR}$ Nylon 6.6 Winged Push Mount Ties (PLWP/PRWP Series)

PAN-TY ${ }^{\oplus}$ Nylon 6.6 Winged Push Mount Ties

Push mount ties are used to attach a cable bundle to a surface such as a flat panel. The anchor is easily pressed into a pre-drilled hole and locks in place. The wings provide constant tension when installed, creating a stable, secure fixture and rattle-free installation.


PRWP


Winged Nylon 6.6 Push Mount Ties - Locking Style (PLWP)

|  |  |  |  | Head | Nominal | Max | Max | Min. Loop | Recommended | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | $\begin{array}{\|c} \text { Length } \\ \text { A } \\ \text { in. (mm) } \end{array}$ | Width $B$ in. $(\mathrm{mm})$ | Thickness C in. (mm) | Height D in. (mm) | Hole Dia. in. (mm) | Panel Thickness in. (mm) | Bundle Dia. in. (mm) | Tensile Strength Lbs. (N) | PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |


| PLWP1M-C | $\begin{gathered} \hline 4.3 \\ (109) \end{gathered}$ | $\begin{aligned} & \hline .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & \hline .044 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & \hline .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & \hline .187 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & \hline .093 \\ & (2.4) \end{aligned}$ | $\begin{aligned} & \hline .87 \\ & (22) \end{aligned}$ | $\begin{gathered} \hline 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 500 | 5000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## INTERMEDIATE CROSS SECTION

| PLWP1.5I-C | $\begin{gathered} \hline 6.0 \\ (152) \end{gathered}$ | $\begin{aligned} & \hline .135 \\ & (3.4) \end{aligned}$ | $\begin{aligned} & \hline .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & \hline 280 \\ & (7.1) \end{aligned}$ | $\begin{aligned} & \hline .187 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & \hline .093 \\ & (2.4) \end{aligned}$ | $\begin{aligned} & 1.25 \\ & (32) \end{aligned}$ | $\begin{gathered} \hline 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 500 | 5000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

STANDARD CROSS SECTION

| PLWP1S-C | $\begin{gathered} 5.2 \\ (132) \\ \hline \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .370 \\ & (9.4) \end{aligned}$ | $\begin{aligned} & \hline .252 \\ & (6.4) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline .105 \\ & (2.7) \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.00 \\ & (25) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 100 | 1000 | 500 | 5000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLWP1SA-D $\ddagger$ | $\begin{gathered} 5.1 \\ (130) \\ \hline \end{gathered}$ |  |  |  | $\begin{aligned} & .187 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .093 \\ & (2.4) \end{aligned}$ |  |  |  | - | - | 500 | 5000 |
| PLWP1SB-D $\ddagger$ | $\begin{gathered} 5.2 \\ (132) \end{gathered}$ |  |  |  |  | $\begin{aligned} & .157 \\ & (4.0) \\ & \hline \end{aligned}$ |  |  |  | - | - | 500 | 5000 |
| PLWP1.5S-D $\ddagger$ | $\begin{gathered} 6.8 \\ (173) \\ \hline \end{gathered}$ |  |  |  | $\begin{aligned} & \hline .252 \\ & (6.4) \end{aligned}$ | $\begin{aligned} & .105 \\ & (2.7) \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ |  |  | - | - | 500 | 5000 |
| PLWP1.5SA-D $\ddagger$ | $\begin{gathered} 6.7 \\ (170) \end{gathered}$ |  |  |  | $\begin{aligned} & .187 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .093 \\ & (2.4) \end{aligned}$ |  |  |  | - | - | 500 | 5000 |
| PLWP2S-C | $\begin{gathered} 7.8 \\ (198) \\ \hline \end{gathered}$ |  |  |  | $\begin{aligned} & \hline .252 \\ & (6.4) \\ & \hline \end{aligned}$ | $\begin{aligned} & .105 \\ & (2.7) \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.75 \\ & (45) \end{aligned}$ |  |  | 100 | 1000 | 500 | 5000 |
| PLWP2SA-D $\ddagger$ | $\begin{gathered} 7.7 \\ (196) \\ \hline \end{gathered}$ |  |  |  | $\begin{aligned} & .187 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .093 \\ & (2.4) \end{aligned}$ |  |  |  | - | - | 500 | 5000 |
| PLWP2SB-D $\ddagger$ | $\begin{gathered} \hline 7.8 \\ (198) \end{gathered}$ |  |  |  |  | $\begin{aligned} & \hline .157 \\ & (4.0) \end{aligned}$ | $\begin{aligned} & 1.75 \\ & (45) \\ & \hline \end{aligned}$ |  |  | - | - | 500 | 5000 |

HEAVY CROSS SECTION

| PLWP2H-TL¥ | $\begin{gathered} 8.9 \\ (226) \\ \hline \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & .370 \\ & (9.4) \end{aligned}$ | $\begin{aligned} & .266 \\ & (6.8) \end{aligned}$ | $\begin{aligned} & .105 \\ & (2.7) \end{aligned}$ | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | GTH, GS4H, STH2 or PPTEH | - | - | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLWP3H-TL $\ddagger$ | $\begin{aligned} & 12.0 \\ & (305) \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | - | - | 250 | 2500 |

Winged Nylon 6.6 Push Mount Ties — Releasable Style (PRWP)
STANDARD CROSS SECTION

| PRWP1S-C | $\begin{gathered} 5.2 \\ (132) \\ \hline \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .370 \\ & (9.4) \end{aligned}$ | $\begin{aligned} & \hline .266 \\ & (6.8) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline .105 \\ & (2.7) \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.00 \\ & (25) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | Hand Installed Only | 100 | 1000 | 500 | 5000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRWP1SA-C | $\begin{gathered} 5.1 \\ (130) \\ \hline \end{gathered}$ |  |  |  | $\begin{aligned} & .187 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .093 \\ & \text { (2.4) } \end{aligned}$ |  |  |  | 100 | 1000 | 500 | 5000 |
| PRWP1SB-D $\ddagger$ | $\begin{gathered} 5.2 \\ (132) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & \hline .157 \\ & (4.0) \end{aligned}$ |  |  |  | - | - | 500 | 5000 |
| PRWP1.5S-D $\ddagger$ | $\begin{gathered} 6.8 \\ (173) \\ \hline \end{gathered}$ |  |  |  | $\begin{aligned} & .252 \\ & (6.4) \end{aligned}$ | $\begin{aligned} & .105 \\ & (2.7) \end{aligned}$ | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ |  |  | - | - | 500 | 5000 |
| PRWP2S-D $\ddagger$ | $\begin{gathered} 7.8 \\ (198) \\ \hline \end{gathered}$ |  |  |  |  |  | $\begin{aligned} & 1.75 \\ & (45) \end{aligned}$ |  |  | - | - | 500 | 5000 |

HEAVY CROSS SECTION

| PRWP2H-TL $\ddagger$ | 8.9 <br> $(226)$ | .300 <br> $(7.6)$ | .075 | .370 | .266 | .105 | 2.00 | 120 |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $(1.9)$ | $(9.4)$ | $(6.8)$ | $(2.7)$ | $(51)$ | $(534)$ | Hand Installed <br> Only | - | - | 250 | 2500 |

## PANDUIT ${ }^{\ominus}$ <br> Heat Stabilized Nylon 6.6 Push Mount Ties (PLWP/PRLWP Series)

## Pan-TY ${ }^{\circledR}$ Center Mounted Heat Stabilized Nylon 6.6 Winged Push Mount Ties

Center mounted winged push mount cable ties center the bundle on all bundle diameters.



PLWP30, 40, 50SC winged push mount cable ties are for normal wire bundles.

PLWP40SD winged push mount cable ties with convoluted tubing bump that prevents lateral and axial movement on convoluted tubing.

PLWP50SE winged push mount cable ties with convoluted tubing bump that prevents lateral movement on convoluted tubing.


BUNDLE DIAMETERS from .12" to $1.97^{\prime \prime}$ ( 3 mm to 50 mm )

|  |  |  |  |  |  |  |  |  |  | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | $\begin{array}{\|c} \text { Length } \\ \text { A } \\ \text { in. (mm) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Width } \\ \text { B } \\ \text { in. }(\mathrm{mm}) \end{array}$ | Thickness C in. (mm) | Height <br> in. (mm) |  | Panel Thickness in. (mm) | Bundle Dia. in. (mm) | Tensile Strength Lbs. (N) | PANDUIT ${ }^{\text {® }}$ <br> InstallationTool Part No. | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |

STANDARD CROSS SECTION

| PLWP30SC-D30 $\ddagger$ | $\begin{gathered} 5.8 \\ (147) \end{gathered}$ | $\begin{array}{r} .190 \\ (4.8) \end{array}$ | $\begin{aligned} & .050 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .266 \\ & (6.8) \end{aligned}$ | $\begin{aligned} & .118 \\ & (3.0) \end{aligned}$ | $\begin{aligned} & 1.18 \\ & (30) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | - | - | 500 | 5000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLWP40SC-D30 $\ddagger$ | $\begin{gathered} 7.0 \\ (178) \end{gathered}$ |  |  |  |  |  | $\begin{aligned} & 1.58 \\ & (40) \\ & \hline \end{aligned}$ |  |  | - | - | 500 | 5000 |
| PLWP50SC-D30 $\ddagger$ | $\begin{gathered} 8.2 \\ (208) \end{gathered}$ |  |  |  |  |  | $\begin{aligned} & 1.97 \\ & (50) \\ & \hline \end{aligned}$ |  |  | - | - | 500 | 5000 |
| PLWP40SD-D30 $\ddagger$ | $\begin{gathered} 7.0 \\ (178) \end{gathered}$ |  |  |  |  |  | $\begin{aligned} & 1.58 \\ & (40) \\ & \hline \end{aligned}$ |  |  | - | - | 500 | 5000 |
| PLWP50SE-D30 $\ddagger$ | $\begin{gathered} 8.2 \\ (208) \end{gathered}$ |  |  |  |  |  | $\begin{aligned} & 1.97 \\ & (50) \end{aligned}$ |  |  | - | - | 500 | 5000 |

## Ladder Style Heat Stabilized Nylon 6.6 Winged Push Mount Ties

Unique releasable ladder design eliminates the need for multiple clamp sizes.


|  |  |  |  |  |  |  |  |  | Recommended | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | $\begin{array}{\|c\|} \hline \text { Length } \\ \text { A } \\ \text { in. }(\mathrm{mm}) \end{array}$ | Width $B$ in. $(\mathrm{mm})$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. }(\mathrm{mm}) \\ \hline \end{gathered}$ | Height D <br> in. (mm) | Hole Dia. in. (mm) | Panel Thickness in. (mm) | Bundle Dia. in. (mm) | Tensile Strength Lbs. (N) | PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

STANDARD CROSS SECTION

| PRLWP30S-D30 $\ddagger$ | $\begin{gathered} 4.7 \\ (119) \\ \hline \end{gathered}$ | $\begin{aligned} & .380 \\ & (9.7) \end{aligned}$ | $\begin{aligned} & .050 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .470 \\ & (12) \end{aligned}$ | $\begin{aligned} & .256 \\ & (6.5) \end{aligned}$ | $\begin{aligned} & .118 \\ & (3.0) \end{aligned}$ | $\begin{aligned} & 1.43 \\ & (36) \\ & \hline \end{aligned}$ | $\begin{gathered} 35 \\ (156) \end{gathered}$ | Hand Installed Only | - | - | 500 | 5000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRLWP50S-D30 $\ddagger$ | $\begin{gathered} 7.1 \\ (180) \end{gathered}$ |  |  |  |  |  | $\begin{aligned} & 2.18 \\ & (55) \end{aligned}$ |  |  | - | - | 500 | 5000 |

## PANDUIT ${ }^{\text {® }}$ Nylon 6.6 Push Mount Ties (PLUP/PLP Series)

PANDUIT ${ }^{\oplus}$ Umbrella Winged Push Mount Cable Ties


The anchor snaps into a hole in a light gauge metal or plastic panel. No screws or other fasteners required. The umbrella shaped disc stabilizes the anchor and insures a tight, rattle-free fit. In addition, the umbrella disc provides a dust-tight and semi-liquid tight seal against the panel surface. The material is heat stabilized, black Nylon 6.6.


|  |  |  |  |  |  |  |  |  | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | A <br> Length <br> in. (mm) | B Width in. (mm) | C <br> Thickness in. (mm) | Nominal Hole Diameter in. (mm) | Max. <br> Panel Thickness in. (mm) | Max. Bundle Diameter in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended <br> PANDUIT ${ }^{\circledR}$ <br> Installation <br> Tool <br> Part No. | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |

STANDARD CROSS SECTION

-For use with Corrugated Loom Tubing.

## PAN-TY ${ }^{\circledR}$ Nylon 6.6

Push Mount
Ties (Style PLP)


Head design for intermediate cross section ties

| Economical Push Mount Tie Style |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | Pac | ing* |  |
| Part Number | A <br> Length in. (mm) | B Width in. (mm) | C Thickness in. (mm) | D <br> Head Height in. (mm) | Nominal Hole Diameter in. (mm) | Max. <br> Panel Thickness in. (mm) | Maximum Bundle Diameter in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Std. Pkg. Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |



## PaNIUITT <br> Weather Resistant Nylon 6.6 Cable Ties (PLT Series)

## PAN-TY ${ }^{\oplus}$ Weather Resistant Nylon Cable Ties



Weather resistant nylon has greater resistance to ultraviolet light which damages natural nylon. Where adverse outdoor conditions exist, see technical/application data section (pages 64-65) to select proper cable tie material for specific applications.


| SUBMINIATURE AND MINIATURE CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Length A in. (mm) | $\begin{gathered} \text { Width } \\ B \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \\ \hline \end{gathered}$ | Head Height D in. (mm) | Head Width E in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Packaging* |  |  |  |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| PLT.6SM-C0 | $\begin{aligned} & \hline 2.8 \\ & (71) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline .070 \\ & (1.8) \end{aligned}$ | $\begin{aligned} & .030 \\ & (.8) \end{aligned}$ | $\begin{aligned} & \hline .095 \\ & (2.4) \end{aligned}$ | $\begin{aligned} & \hline .125 \\ & (3.2) \end{aligned}$ | $\begin{aligned} & \hline .60 \\ & (15) \end{aligned}$ | $\begin{gathered} \hline 8 \\ (36) \end{gathered}$ | GTS, PTS or STS2 | 100 | 1000 | 1000 | 50000 |
| PLT1M-C0 | $\begin{aligned} & 3.9 \\ & (99) \end{aligned}$ | $\begin{aligned} & .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & .043 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & .154 \\ & (3.9) \end{aligned}$ | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{array}{r} .87 \\ (22) \\ \hline \end{array}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 50000 |
| PLT1.5M-C0 | $\begin{gathered} 5.6 \\ (142) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 1.25 \\ & (32) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 50000 |
| PLT2M-C0 | $\begin{gathered} 8.0 \\ (203) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |

INTERMEDIATE CROSS SECTION

| PLT1.5I-C0 | $\begin{gathered} 5.6 \\ (142) \end{gathered}$ | $\begin{aligned} & .142 \\ & (3.6) \end{aligned}$ | . 045 | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{aligned} & .240 \\ & (6.1) \end{aligned}$ | $\begin{aligned} & \hline 1.38 \\ & (35) \\ & \hline \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT21-C0 | $\begin{gathered} 8.0 \\ (203) \\ \hline \end{gathered}$ |  | (1.1) |  |  | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| PLT2.51-C0 | $\begin{gathered} 9.7 \\ (246) \end{gathered}$ |  | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ |  |  | $\begin{aligned} & 2.50 \\ & (64) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT31-C0 | $\begin{array}{r} 11.4 \\ (290) \end{array}$ | . 145 |  |  | $\begin{aligned} & .280 \\ & (6.6) \end{aligned}$ | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT4I-C0 | $\begin{gathered} 14.5 \\ (368) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 10000 |

STANDARD CROSS SECTION

| PLT1S-C0 | $\begin{gathered} 4.8 \\ (122) \\ \hline \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .316 \\ & (8.0) \end{aligned}$ | $\begin{aligned} & 1.00 \\ & (25) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, <br> GTH, GS4H, <br> PTS, PPTS, <br> STS2 or STH2 | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT1.5S-C0 | $\begin{gathered} 6.2 \\ (157) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT2S-C0 | $\begin{gathered} 7.4 \\ (188) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 1.88 \\ & (48) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT2.5S-C0 | $\begin{gathered} 9.8 \\ (249) \\ \hline \end{gathered}$ |  |  |  | $\begin{aligned} & .337 \\ & (8.6) \end{aligned}$ | $\begin{aligned} & \hline 2.50 \\ & (64) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT3S-C0 | $\begin{array}{r} \hline 11.5 \\ (292) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & \hline 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| PLT4S-C0 | $\begin{aligned} & 14.5 \\ & (368) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 5000 |
| PLT4.5S-C0 | $\begin{array}{r} 15.5 \\ (394) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 4.50 \\ (114) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 5000 |
| PLT5S-C0 | $\begin{aligned} & 17.5 \\ & (445) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{aligned} & 5.00 \\ & (127) \\ & \hline \end{aligned}$ |  |  | 100 | 500 | 1000 | 5000 |

## PANDUIT ${ }^{\circledR}$ Weather Resistant Cable Ties (PLT Series)

## PaN-TY ${ }^{\circledR}$ Weather

 Resistant Nylon Cable Ties

| Part Number | Length <br> A <br> in. (mm) | Width$B$in. (mm) | Thickness C in. (mm) | Head Height D <br> in. (mm) | Head <br> Width E <br> in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |

LIGHT-HEAVY CROSS SECTION

| PLT6LH-LO | $\begin{array}{r} 21.9 \\ (556) \\ \hline \end{array}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{array}{r} .075 \\ (1.9) \end{array}$ | $\begin{aligned} & .325 \\ & (8.3) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{array}{r} 6.00 \\ (152) \\ \hline \end{array}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | $\begin{gathered} \text { GTH, GS4H, } \\ \text { GS4EH } \\ \text { PPTEH or } \\ \text { STH2 } \end{gathered}$ | 50 | 500 | 100 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT7LH-L0 | $\begin{aligned} & \hline 24.7 \\ & (627) \end{aligned}$ |  |  |  |  | $\begin{array}{r} 7.00 \\ (178) \\ \hline \end{array}$ |  |  | 50 | 500 | 100 | 2000 |
| PLT8LH-L0 | $\begin{aligned} & 27.6 \\ & (701) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{aligned} & 8.00 \\ & (203) \\ & \hline \end{aligned}$ |  |  | 50 | 500 | 100 | 2000 |
| PLT9LH-LO | $\begin{array}{r} 30.5 \\ (775) \\ \hline \end{array}$ |  |  |  |  | $\begin{gathered} 9.00 \\ (229) \end{gathered}$ |  |  | 50 | 500 | 100 | 2000 |

HEAVY CROSS SECTION

| PLT2H-LO | $\begin{gathered} \hline 8.1 \\ (206) \\ \hline \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & .290 \\ & (7.4) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | $\begin{gathered} \text { GTH, GS4H, } \\ \text { GS4EH } \\ \text { PPTEH or } \\ \text { STH2 } \end{gathered}$ | 50 | 500 | 100 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT2.5H-LO | $\begin{gathered} 9.8 \\ (251) \end{gathered}$ |  |  |  |  | $\begin{aligned} & \hline 2.50 \\ & (64) \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |
| PLT3H-LO | $\begin{array}{r} 11.4 \\ (290) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |
| PLT4H-LO | $\begin{array}{r} 14.5 \\ (368) \end{array}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 50 | 500 | 250 | 2500 |
| PLT5H-LO | $\begin{array}{r} 17.7 \\ (450) \\ \hline \end{array}$ | $\begin{aligned} & .350 \\ & (8.9) \end{aligned}$ | $\begin{aligned} & .078 \\ & (2.0) \end{aligned}$ | $\begin{array}{r} .340 \\ (8.6) \end{array}$ | $\begin{gathered} .560 \\ (14.2) \end{gathered}$ | $\begin{array}{r} \hline 5.00 \\ (127) \\ \hline \end{array}$ | $\begin{gathered} 175 \\ (778) \end{gathered}$ |  | 50 | 500 | 250 | 2500 |
| PLT6H-LO | $\begin{aligned} & 20.9 \\ & (530) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 6.00 \\ & (152) \end{aligned}$ |  |  | 50 | 500 | 250 | 2000 |
| PLT8H-LO | $\begin{gathered} 30.6 \\ (779) \end{gathered}$ |  |  |  |  | $\begin{gathered} 9.00 \\ (229) \end{gathered}$ |  |  | 50 | 500 | 100 | 1000 |
| PLT13H-Q0 | $\begin{gathered} 43.3 \\ (1100) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 13.00 \\ & (330) \\ & \hline \end{aligned}$ |  |  | 25 | 500 | 100 | 500 |

## Pan-Ty ${ }^{\circledR}$ Locking

Weather Resistant
Nylon Lashing Ties


| Part Number | Length A in. (mm) | $\begin{gathered} \text { Width } \\ \text { B } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | Thickness C in. (mm) |  | Head <br> Width E in. (mm) | Max. <br> Bundle Dia. <br> in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |

EXTRA-HEAVY CROSS SECTION

| PLT2EH-Q0 | $\begin{gathered} 9.0 \\ (229) \\ \hline \end{gathered}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{gathered} .400 \\ (10.2) \end{gathered}$ | $\begin{gathered} .800 \\ (20.3) \end{gathered}$ | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 250 \\ (1112) \end{gathered}$ | GS4EH PPTEH or STH2 | 25 | 250 | 100 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT5EH-Q0 | $\begin{aligned} & 20.1 \\ & (511) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{gathered} 5.00 \\ (127) \\ \hline \end{gathered}$ |  |  | 25 | 250 | 100 | 1000 |
| PLT6EH-Q0 | $\begin{gathered} 22.2 \\ (564) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{gathered} 6.00 \\ (152) \\ \hline \end{gathered}$ |  |  | 25 | 250 | 100 | 1000 |
| PLT8EH-Q0 | $\begin{array}{r} 28.3 \\ (719) \\ \hline \end{array}$ |  | $\begin{aligned} & .085 \\ & (2.2) \end{aligned}$ |  |  | $\begin{aligned} & 8.00 \\ & (203) \\ & \hline \end{aligned}$ |  |  | 25 | 250 | 100 | 1000 |
| PLT10EH-Q0 | $\begin{array}{r} 34.2 \\ (869) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 10.00 \\ & (254) \\ & \hline \end{aligned}$ |  |  | 25 | 250 | 100 | 500 |
| PLT12EH-Q0 | $\begin{gathered} \hline 40.1 \\ (1019) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 12.00 \\ & (305) \\ & \hline \end{aligned}$ |  |  | 25 | 250 | 100 | 500 |

## PANDUIT ${ }^{\oplus}$ Weather Resistant Cable Ties (PRT Series)

## Pan-Ty ${ }^{\circledR}$ Releasable Weather Resistant Nylon Lashing Ties

The extended tab end of releasable cable ties permits easy release and reuse even after tie has been pulled up snug by hand. Releasable ties are particularly useful where changes are anticipated during development, production or servicing in the field.


| Part Number | Length A in. (mm) | $\begin{gathered} \text { Width } \\ \text { B } \\ \text { in. }(\mathrm{mm}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \\ \hline \end{gathered}$ | Head Height D in. (mm) | Head Width E in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended <br> PANDUIT ${ }^{\oplus}$ <br> Installation <br> Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| EXTRA-HEAVY CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |
| PRT2EH-Q0 | $\begin{gathered} 9.0 \\ (229) \end{gathered}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{gathered} .400 \\ (10.2) \end{gathered}$ | $\begin{gathered} .800 \\ (20.3) \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 250 \\ (1112) \end{gathered}$ | Hand Installed Only | 25 | 250 | 100 | 1000 |
| PRT5EH-Q0 | $\begin{aligned} & \hline 20.1 \\ & (510) \end{aligned}$ |  |  |  |  | $\begin{aligned} & \hline 5.00 \\ & (127) \end{aligned}$ |  |  | 25 | 250 | 100 | 1000 |
| PRT6EH-Q0 | $\begin{gathered} 22.2 \\ (564) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 6.00 \\ & (152) \end{aligned}$ |  |  | 25 | 250 | 100 | 1000 |
| PRT8EH-Q0 | $\begin{gathered} 28.3 \\ (719) \\ \hline \end{gathered}$ |  | $\begin{aligned} & .085 \\ & (2.2) \end{aligned}$ |  |  | $\begin{aligned} & 8.00 \\ & (203) \\ & \hline \end{aligned}$ |  |  | 25 | 250 | 100 | 1000 |
| PRT10EH-Q0 | $\begin{array}{r} 34.2 \\ (869) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & \hline 10.00 \\ & (254) \\ & \hline \end{aligned}$ |  |  | 25 | 250 | 100 | 500 |
| PRT12EH-Q0 | $\begin{gathered} \hline 40.1 \\ (1019) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 12.00 \\ & (305) \\ & \hline \end{aligned}$ |  |  | 25 | 250 | 100 | 500 |

## Lashing Tie <br> Mounting Clip

Converts PANDUIT® ${ }^{\circledR}$ PAN-TY ${ }^{\circledR}$ Lashing Ties into clamps. Easily snaps in place for a secure clamp. Used with Lashing Ties (see pages 7, 8, 15 and above).


| Part Number | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Height } \\ \text { A } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \hline \text { Width } \\ B \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Length } \\ & \mathrm{C} \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |  |
| MCEH-S25-CO | $\begin{gathered} \hline .13 \\ (3.3) \end{gathered}$ | $\begin{gathered} .67 \\ (17.0) \end{gathered}$ | $\begin{aligned} & 1.38 \\ & (35) \end{aligned}$ | Weather Resistant Nylon 6.6 | Black | Outdoors or Indoors | $\begin{gathered} \hline \text { 1/4" (M6) } \\ \text { screw } \\ \text { (except } \\ \text { flathead) } \end{gathered}$ | - | - | 100 | 1000 |  |

## PANDUIT ${ }^{\ominus}$ Weather Resistant Cable Ties (PRT Series)

Releasable Cable Ties The extended tab end of releasable cable ties permits easy release and (PRT Series)
 reuse even after tie has been pulled up snug by hand. Releasable ties are particularly useful where changes are anticipated during development, production or servicing in the field.


To release, grasp the head of the cable tie, deflect release tab and pull the cable tie away from the bundle.

|  |  |  |  |  | Head | Head | Max. | Min. Loop | Recommended | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Cross Section | Length A in. (mm) | Width B in. $(\mathrm{mm})$ | Thickness C in. (mm) | Height D <br> in. (mm) | Width E <br> in. (mm) | Bundle Dia. <br> in. (mm) | Tensile Strength Lbs. (N) | PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

STANDARD CROSS SECTION

| PRT1S-C0 | Std. | $\begin{gathered} \hline 4.8 \\ (122) \\ \hline \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .219 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .316 \\ & (8.0) \end{aligned}$ | $\begin{aligned} & \hline 1.00 \\ & (25) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | Hand Installed Only | 100 | 1000 | 100 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRT1.5S-C0 |  | $\begin{gathered} \hline 6.3 \\ (160) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 1.50 \\ & (38) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 100 | 10000 |
| PRT2S-C0 |  | $\begin{gathered} \hline 7.4 \\ (188) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 1.88 \\ & (48) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 100 | 10000 |
| PRT3S-C0 |  | $\begin{array}{r} 11.5 \\ (292) \\ \hline \end{array}$ |  |  |  | $\begin{aligned} & .337 \\ & (8.6) \end{aligned}$ | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 100 | 1000 | 100 | 10000 |
| PRT4S-C0 |  | $\begin{array}{r} 14.5 \\ (368) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 100 | 1000 | 100 | 5000 |

HEAVY CROSS SECTION

| PRT2H-LO | Hvy. | $\begin{gathered} 8.4 \\ (213) \\ \hline \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 80 \\ (356) \end{gathered}$ | Hand Installed Only | 50 | 500 | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRT3H-L0 |  | $\begin{gathered} 11.4 \\ (290) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |
| PRT4H-L0 |  | $\begin{aligned} & 14.5 \\ & (368) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \\ & \hline \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |

## PANDUIT ${ }^{\oplus}$ Weather Resistant NyIon 6.6 Clamp Ties (PLC Series)

## PAN-TY ${ }^{\circledR}$ Weather Resistant Nylon Clamp Ties

Clamps are used to attach a bundle to another surface such as a control panel, wall or ceiling using another fastener. The design allows for bundling before or after screwing clamp in place.


|  |  |  |  | Boss | Boss | No |  |  | Mi |  |  | Pac | ging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Length A in. ( mm ) | $\begin{gathered} \text { Width } \\ \text { B } \\ \text { in. } \\ (\mathrm{mm}) \\ \hline \end{gathered}$ | Thickness C in. (mm) | $\begin{gathered} \text { D } \\ \text { in. } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { Width } \\ \text { E } \\ \text { in. } \\ (\mathrm{mm}) \end{gathered}$ | Hole Dia. F in. $(\mathrm{mm})$ | Screw Size | Max. <br> Bundle Dia. <br> in. (mm) | Loop <br> Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| MINIATURE CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PLC1M-S4-C0 | $\begin{gathered} \hline 4.3 \\ (110) \end{gathered}$ | $\begin{aligned} & \hline .100 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & \hline .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .153 \\ & (3.9) \end{aligned}$ | $\begin{aligned} & \hline .239 \\ & (6.1) \end{aligned}$ | $\begin{aligned} & \hline .118 \\ & (3.0) \end{aligned}$ | $\begin{gathered} \hline \text { \#4 } \\ \text { (M2.5) } \end{gathered}$ | $\begin{aligned} & \hline .75 \\ & (20) \end{aligned}$ | $\begin{gathered} \hline 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 50000 |

## INTERMEDIATE CROSS SECTION

| PLC1.5I-S8-C0 | $\begin{gathered} \hline 6.1 \\ (156) \end{gathered}$ | $\begin{aligned} & \hline .135 \\ & (3.4) \end{aligned}$ | $\begin{aligned} & \hline .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & \hline .166 \\ & (4.2) \end{aligned}$ | $\begin{aligned} & .335 \\ & (8.5) \end{aligned}$ | $\begin{aligned} & \hline .172 \\ & (4.4) \end{aligned}$ | $\begin{gathered} \hline \text { \#8 } \\ \text { (M4) } \end{gathered}$ | $\begin{aligned} & 1.25 \\ & (32) \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## STANDARD CROSS SECTION

| PLC2S-S6-C0 | $\begin{gathered} 7.9 \\ (201) \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .047 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .160 \\ & (4.1) \end{aligned}$ | $\begin{aligned} & .390 \\ & (9.5) \end{aligned}$ | $\begin{aligned} & \hline .145 \\ & (3.7) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \# 6 \\ \text { (M3) } \\ \hline \end{gathered}$ | $\begin{aligned} & 1.84 \\ & (47) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, <br> GTH, GS4H, <br> PTS, PPTS, <br> STS2 or STH2 | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLC2S-S10-C0 |  |  |  |  |  | $\begin{aligned} & .206 \\ & .(5.2) \end{aligned}$ | $\begin{array}{r} \# 10 \\ \text { (M5) } \end{array}$ |  |  |  | 100 | 1000 | 1000 | 10000 |
| PLC3S-S10-C0 | $\begin{aligned} & 12.0 \\ & (305) \end{aligned}$ |  | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & .(5.6) \end{aligned}$ |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 5000 |
| PLC4S-S10-C0 | $\begin{array}{r} 15.0 \\ (381) \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 5000 |

HEAVY CROSS SECTION

| PLC2H-S25-TLO $\ddagger$ | $\begin{gathered} 9.0 \\ (228) \\ \hline \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{array}{r} .075 \\ (1.9) \end{array}$ | $\begin{aligned} & .265 \\ & (6.7) \end{aligned}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{array}{r} \hline .260 \\ (6.6) \\ \hline \end{array}$ | $\begin{gathered} 1 / 4 \\ \text { (M6) } \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | $\begin{gathered} \text { GTH, GS4H, } \\ \text { GS4EH, PPTEH } \\ \text { or STH2 } \end{gathered}$ | - | - | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLC4H-S 25-LO | $\begin{aligned} & \hline 15.1 \\ & (384) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{aligned} & .262 \\ & (6.7) \end{aligned}$ |  | $\begin{aligned} & \hline 4.00 \\ & (102) \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |

NATURAL POLYPROPYLENE CABLE TIES (Refer to drawing on page 19)

|  |  |  |  |  |  | Max. | Min. |  |  | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | $\begin{gathered} \text { Length } \\ \text { A } \\ \text { in. } \\ (\mathrm{mm}) \end{gathered}$ | Width <br> B <br> in. <br> (mm) | $\begin{aligned} & \text { Thickness } \\ & \text { C } \\ & \text { in. (mm) } \end{aligned}$ | Head Height D <br> in. (mm) | Head Width E in. (mm) | Bundle <br> Dia. <br> in. <br> (mm) | Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Tool Setting ${ }^{1}$ (except STS2/STH2) | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |

MINIATURE CROSS SECTION

| PLT1M-M109 | $\begin{aligned} & \hline 3.9 \\ & (99) \end{aligned}$ | $\begin{aligned} & \hline .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & \hline .043 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & .154 \\ & (3.9) \end{aligned}$ | $\begin{aligned} & \hline .180 \\ & (4.6) \end{aligned}$ | $\begin{gathered} .87 \\ (22) \end{gathered}$ | $\begin{gathered} \hline 11 \\ (49) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 2 | - | - | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

INTERMEDIATE CROSS SECTION

| PLT1.5I-M109 | $\begin{gathered} 5.6 \\ (142) \end{gathered}$ | $\begin{aligned} & \hline .142 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & \hline .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{aligned} & \hline .240 \\ & (6.1) \end{aligned}$ | $\begin{aligned} & 1.38 \\ & (35) \end{aligned}$ | $\begin{gathered} \hline 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 3 | - | - | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| PLT2S-M109 | $\begin{gathered} 7.4 \\ (188) \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{array}{r} .316 \\ (8.0) \\ \hline \end{array}$ | $\begin{aligned} & 1.88 \\ & (48) \\ & \hline \end{aligned}$ | $\begin{gathered} 30 \\ (133) \end{gathered}$ | GTS, GS2B <br> GTH, GS4H, <br> PTS, PPTS, <br> STS2 or STH2 | 5 (GTS, GS2B, PTS, PPTS) <br> 2 (GTH, GS4H) | - | - | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT3S-M109 | $\begin{aligned} & 11.5 \\ & (292) \end{aligned}$ |  |  |  | $\begin{aligned} & .337 \\ & (8.6) \end{aligned}$ | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  |  | - | - | 1000 | 10000 |
| PLT4S-M109 | $\begin{array}{r} 14.5 \\ (368) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  |  | - | - | 1000 | 5000 |
| HEAVY CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PLT2H-TL109 | $\begin{gathered} 8.1 \\ (206) \end{gathered}$ | $\begin{array}{r} .300 \\ (7.6) \end{array}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & 290 \\ & \hline(7.4) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTH, GS4H, PPTEH or STH2 | 5 | - | - | 250 | 2500 |
| PLT3H-TL109 | $\begin{aligned} & 11.4 \\ & (290) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  |  | - | - | 250 | 2500 |
| PLT4H-TL109 | $\begin{aligned} & 14.5 \\ & (368) \end{aligned}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  |  | - | - | 250 | 2500 |

[^0]
## PANDUIT ${ }^{\text {® }}$ Polypropylene Cable Ties (PLT / PRT Series)

PaN-TY ${ }^{\circledR}$ Weather
Resistant
Polypropylene Cable Ties

For chemical resistance in outdoor applications that are unsuitable for nylon and that do not require high loop tensile strengths. Color is black.


| Part Number | Length A in. (mm) | Width$B$in. (mm) | Thickness C in. (mm) | Head Height D in. (mm) | Head Width E in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Tool Setting ${ }^{1}$ (except STS2/ STH2) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |


| PLT1M-M100 | $\begin{aligned} & \hline 3.9 \\ & (99) \end{aligned}$ | $\begin{aligned} & \hline .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & \hline .043 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & \hline .154 \\ & (3.9) \end{aligned}$ | $\begin{aligned} & \hline .180 \\ & (4.6) \end{aligned}$ | $\begin{aligned} & \hline .87 \\ & (22) \end{aligned}$ | $\begin{gathered} \hline 11 \\ (49) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 2 | - | - | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INTERIMEDIATE CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PLT1.51-M100 | $\begin{gathered} 5.6 \\ (142) \end{gathered}$ | $\begin{aligned} & \hline .142 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & \hline .045 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & \hline .180 \\ & (4.6) \end{aligned}$ | $\begin{aligned} & .240 \\ & (6.1) \end{aligned}$ | $\begin{aligned} & 1.38 \\ & (35) \end{aligned}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 3 | - | - | 1000 | 25000 |


| PLT2S-M1 00 | $\begin{gathered} 7.4 \\ (188) \\ \hline \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & 220 \\ & (5.6) \end{aligned}$ | $\begin{array}{r} .316 \\ (8.0) \\ \hline \end{array}$ | $\begin{aligned} & 1.88 \\ & (48) \\ & \hline \end{aligned}$ | $\begin{gathered} 30 \\ (133) \end{gathered}$ | $\begin{gathered} \text { GTS, GS2B, } \\ \text { GTH, GS4H, } \\ \text { PTS, PPTS, } \\ \text { STS2 } \\ \text { or STH2 } \end{gathered}$ | $\begin{aligned} & 5 \text { (GTS, } \\ & \text { GS2B, } \end{aligned}$ | - | - | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT3S-M1 00 | $\begin{aligned} & 11.5 \\ & (292) \\ & \hline \end{aligned}$ |  |  |  | $\begin{aligned} & .337 \\ & (8.6) \end{aligned}$ | $\begin{array}{r} 3.00 \\ (76) \\ \hline \end{array}$ |  |  | PTS, PPTS) | - | - | 1000 | 10000 |
| PLT4S-M100 | $\begin{aligned} & 14.5 \\ & (368) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \\ & \hline \end{aligned}$ |  |  | $\begin{gathered} 2 \text { (GTH, } \\ \text { GS4H) } \end{gathered}$ | - | - | 1000 | 5000 |

HEAVY CROSS SECTION

| PLT2H-TL100 | $\begin{gathered} 8.1 \\ (206) \\ \hline \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{array}{r} .075 \\ (1.9) \end{array}$ | $\begin{aligned} & 290 \\ & .7 .4) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{array}{r} 2.00 \\ (51) \\ \hline \end{array}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTH, GS4H, PPTEH or STH2 | 5 | - | - | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT3H-TL100 | $\begin{array}{r} 11.4 \\ (290) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  |  | - | - | 250 | 2500 |
| PLT4H-TL1 00 | $\begin{aligned} & 14.5 \\ & (368) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  |  | - | - | 250 | 2500 |

NOTE 1: For best results, use tool tensions at the low end of the adjustment range, i.e. Std. Cable Ties installed at tool setting 5 to arrive at optimum installation tension.

## Pan-TY ${ }^{\circledR}$ Releasable Polypropylene Cable Ties



To release, grasp the head of the cable tie, deflect release tab and pull the cable tie away from the bundle.


|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Length <br> A | Width | B |
| Thickness |  |  |  |
| Cart Number | in. (mm) | in. (mm) | in. (mm) |


| Head |
| :---: |
| Height |
| $D$ |
| in. (mm) |


| Head | Max. | Min. Loop |
| :---: | :---: | :---: |
| Width | Bundle | Tensile |
| E | Dia. | Strength |
| in. (mm) | in. (mm) | Lbs. (N) |


| Recommended |
| :---: | :---: |
| PANDUIT® |
| Installation |
| Tool Part. No. |


| Packaging* |  |  |  |
| :---: | :---: | :---: | :---: |
| Std. | Std. | Bulk | Bulk |
| Pkg. | Ctn. | Pkg. | Ctn. |
| Qty. | Qty. | Qty. | Qty. |

EXTRA-HEAVY CROSS SECTION — WEATHER RESISTANT POLYPROPYLENE

| PRT5EH-C100 | $\begin{aligned} & \hline 20.1 \\ & (510) \\ & \hline \end{aligned}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{gathered} .400 \\ (10.2) \end{gathered}$ | $\begin{gathered} .800 \\ (20.3) \end{gathered}$ | $\begin{aligned} & 5.00 \\ & (127) \end{aligned}$ | $\begin{gathered} 90 \\ (400) \end{gathered}$ | Hand Installed | 100 | 1000 | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRT6EH-C100 | $\begin{array}{r} 22.2 \\ (564) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 6.00 \\ (152) \\ \hline \end{array}$ |  |  | 100 | 1000 | - | - |

## PAN-TY ${ }^{\oplus}$ Flame

 Retardant Nylon 6.6 Cable Ties and Marker Ties

- Flame Retardant Nylon 6.6 meets the requirements of UL94V-0
- Can be used with flame retardant cable tie mounts (see pages 86 and 89 )



PLF1M



|  |  |
| :---: | :---: |
| Thickness | Head |
| C | Height |
| D. |  |
| inm) | in. (mm) |


| Head |
| :---: |
| Width |
| E |
| in. (mm) |


| Marker |
| :---: |
| Write-on |
| Area |
| in. (mm) |


| Max. | Min. Loop |
| :---: | :---: |
| Bundle | Tensile |
| Dia. | Strength |
| in. (mm) | Lbs. (N) |


| Recommended | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Std. | Std. | Bulk | Bulk |
| Installation | Pkg. | Ctn. | Pkg. | Ctn. |
| Tool Part No. | Qty. | Qty. | Qty. | Qty. | MINIATURE CROSS SECTION


| PLF1M-M69 $\ddagger$ | $\begin{gathered} 4.3 \\ (109) \end{gathered}$ | $\begin{aligned} & .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & \hline .045 \\ & (1.1) \\ & \hline \end{aligned}$ | $\begin{array}{r} .154 \\ (3.9) \end{array}$ | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{gathered} .31 \times .75 \\ (7.9 \times 19.1) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .87 \\ (22) \\ \hline \end{gathered}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS. PPTS or STS2 | - | - | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLM1 M-M69 $\ddagger$ | $\begin{aligned} & \hline 3.9 \\ & (99) \\ & \hline \end{aligned}$ |  | $\begin{aligned} & .035 \\ & (.9) \end{aligned}$ |  |  | $\begin{gathered} .26 \times .95 \\ (6.6 \times 24.1) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline .75 \\ & (20) \\ & \hline \end{aligned}$ |  |  | - | - | 1000 | 25000 |
| PLT1M-M69ұ | $\begin{gathered} 4.0 \\ (102) \end{gathered}$ |  | $\begin{aligned} & .043 \\ & (1.1) \end{aligned}$ |  | $\begin{aligned} & .188 \\ & (4.8) \end{aligned}$ | - | $\begin{gathered} .87 \\ (22) \\ \hline \end{gathered}$ |  |  | - | - | 1000 | 25000 |
| PLT2M-M69¥ | $\begin{gathered} 8.0 \\ (203) \end{gathered}$ |  |  |  |  |  | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  |  | - | - | 1000 | 25000 |


| PLT1.5I-M69¥ | $\begin{gathered} 5.6 \\ (142) \end{gathered}$ | $\begin{aligned} & .142 \\ & (3.6) \\ & \hline \end{aligned}$ | $\begin{array}{r} .044 \\ (1.1) \end{array}$ | $\begin{aligned} & .177 \\ & (4.5) \end{aligned}$ | $\begin{aligned} & .239 \\ & (6.1) \end{aligned}$ | - | $\begin{aligned} & 1.38 \\ & (35) \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | - | - | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT21-M69 $\ddagger$ | $\begin{gathered} 8.0 \\ (203) \end{gathered}$ | $\begin{aligned} & .142 \\ & (3.6) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  |  | - | - | 1000 | 25000 | STANDARD CROSS SECTION


| PLT2S-M69ł | $\begin{gathered} \hline 7.4 \\ (188) \\ \hline \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \\ & \hline \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | - | $\begin{aligned} & \hline 1.88 \\ & (48) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | - | - | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT4S-M69ł | $\begin{aligned} & 14.5 \\ & (368) \end{aligned}$ |  | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ |  | $\begin{aligned} & .337 \\ & (8.6) \end{aligned}$ |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | - | - | 1000 | 5000 |

HEAVY CROSS SECTION

| PLT4H-TL69 $\ddagger$ | $\begin{aligned} & \hline 14.6 \\ & (371) \end{aligned}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & \hline .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & \hline 290 \\ & (7.4) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | - | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | GTH, GS4H, GS4EH, PPTEH or STH2 | - | - | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## PAN-TY ${ }^{\oplus}$ Weather Resistant Nylon 12 Cable Ties

- For high moisture, corrosive environments and low temperatures
- For indoor use or weather resistant applications

| Part Number | Length <br> A <br> in. (mm) | Width$B$in. $(\mathrm{mm})$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \end{gathered}$ | HeadHeightD | Head Width E <br> in. (mm) | Max. <br> Bundle Dia. <br> in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

INTERMEDIATE CROSS SECTION

| PLT1.51-M120 $\ddagger$ | $\begin{gathered} 5.6 \\ (142) \end{gathered}$ | $\begin{aligned} & .142 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & \hline .045 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & \hline .180 \\ & (4.6) \end{aligned}$ | $\begin{aligned} & \hline .240 \\ & (6.1) \end{aligned}$ | $\begin{aligned} & 1.38 \\ & (35) \end{aligned}$ | $\begin{gathered} 25 \\ (111) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | - | - | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

STANDARD CROSS SECTION

| PLT2S-M120¢ | $\begin{gathered} 7.4 \\ (188) \\ \hline \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & \hline .316 \\ & (8.0) \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.88 \\ & (48) \\ & \hline \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | - | - | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT4S-M120 $\ddagger$ | $\begin{aligned} & 14.5 \\ & (368) \end{aligned}$ |  |  |  | $\begin{aligned} & .337 \\ & (8.6) \end{aligned}$ | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | - | - | 1000 | 5000 |

LIGHT-HEAVY CROSS SECTION

| PLT8LH-C120 $\ddagger$ | $\begin{aligned} & 27.6 \\ & (701) \end{aligned}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & \hline .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & \hline .290 \\ & (7.4) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{aligned} & 8.00 \\ & (203) \end{aligned}$ | $\begin{gathered} 90 \\ (400) \end{gathered}$ | GTH, GS4H, GS4EH, PPTEH or STH2 | - | - | 100 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HEAVY CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |
| PLT4H-TL120 $\ddagger$ | $\begin{aligned} & 14.5 \\ & (368) \end{aligned}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & \hline .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & \hline 290 \\ & (7.4) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ | $\begin{gathered} 90 \\ (400) \end{gathered}$ | GTH, GS4H, GS4EH, PPTEH or STH2 | - | - | 250 | 2500 |

## PANDUIT ${ }^{\text {® }}$ HALAR** ${ }^{* *}$ and TEFZEL*** Cable Ties

PAN-TY ${ }^{\oplus}$ HALAR** Fluoropolymer Cable Ties


HALAR** Cable Ties are UL Listed and UL Recognized as: Suitable for use in Air Handling Spaces per NEC, Section 300-22 (c) and (d). Many inspectors look for the distinctive maroon color. HALAR** cable ties have a low smoke density rating and an excellent flammability rating of UL94V-0. Other applications include nuclear plants, chemical environments, telecommunications equipment, aerospace, high and low temperature environments.


| Part Number | Length A in. (mm) | $\begin{array}{\|c} \text { Width } \\ B \\ \text { in. (mm) } \end{array}$ | Thickness C in. (mm) | Head Height D <br> in. (mm) | Head Width E <br> in. ( | Max. Bundle Dia. in. (mm) | Min. Loop <br> Tensile Strength <br> Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. Pkg. Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |

MINIATURE CROSS SECTION

| PLT1M-C702 | 4.0 <br> $(102)$ | .098 <br> $(2.5)$ | .043 <br> $(1.1)$ | .186 <br> $(4.7)$ | .188 <br> $(4.8)$ | 87 <br> $(22)$ | 18 <br> $(80)$ | GTS, GS2B, <br> PTS, PPTS <br> or STS2 | 100 | 1000 | 1000 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

STANDARD CROSS SECTION

| PLT2S-C702 | $\begin{gathered} \hline 7.4 \\ (188) \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & \hline .055 \\ & (1.4) \end{aligned}$ | $\begin{aligned} & 240 \\ & (6.1) \end{aligned}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | $\begin{aligned} & 1.88 \\ & (48) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT3S-C702 | $\begin{aligned} & 11.6 \\ & (295) \end{aligned}$ |  | $\begin{aligned} & .059 \\ & (1.5) \end{aligned}$ |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 5000 |

**HALAR is a registered trademark of Solvay Solexis, Inc.

PAN-TY ${ }^{\oplus}$
TEFZEL*** Fluoropolymer Cable Ties

TEFZEL*** cable ties are ideal for applications requiring resistance to
 environmental stresses such as chemical attack, gamma radiation, ultraviolet radiation and extreme temperatures. In addition, TEFZEL*** has a UL Flammability rating of UL94V-0. TEFZEL*** ties have a distinctive aqua blue color.


| Part Number | Length A in. (mm) | $\begin{array}{\|c\|} \hline \text { Width } \\ B \\ \text { in. }(\mathrm{mm}) \end{array}$ | $\begin{array}{\|l} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \\ \hline \end{array}$ | Head Height D <br> in. (mm) | Head Width E <br> in. (mm) | Max. <br> Bundle Dia. <br> in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

MINIATURE CROSS SECTION

| PLT1 M-C76 | 4.0 | .098 | .043 | .186 | .188 | .87 <br> $(22)$ | 18 <br> $(80)$ | GTS, GS2B, PTS, <br> PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $(102)$ | $(2.5)$ | $(1.1)$ | $(4.7)$ | $(4.8)$ |  |  |  |  |  |  |  |

INTERMEDIATE CROSS SECTION

| PLT2I-C76 | 8.0 | .135 | .045 | .180 | .240 <br> $(2.4)$ <br> $(203)$ | 2.00 <br> $(51)$ | 25 <br> $(111)$ | GTS, GS2B, PTS, <br> PPTS or STS2 | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

STANDARD CROSS SECTION

| PLT2S-C76 | $\begin{gathered} 7.4 \\ (188) \\ \hline \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{array}{r} .055 \\ (1.4) \\ \hline \end{array}$ | $\begin{aligned} & .240 \\ & (6.1) \end{aligned}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | $\begin{aligned} & 1.88 \\ & (48) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT3S-C76 | $\begin{aligned} & 11.6 \\ & (295) \end{aligned}$ |  | $\begin{aligned} & .055 \\ & (1.4) \end{aligned}$ |  |  | $\begin{aligned} & 3.00 \\ & 76) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 5000 |
| PLT4S-C76 | $\begin{array}{r} 14.6 \\ (371) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 5000 |

HEAVY CROSS SECTION

| PLT3H-L76 | $\begin{aligned} & 11.5 \\ & (292) \end{aligned}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & .360 \\ & (9.1) \end{aligned}$ | $\begin{gathered} .480 \\ (12.2) \end{gathered}$ | $\begin{aligned} & 3.00 \\ & (78) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | ```GTH, GS4H, GS4EH PPTEH or STH2``` | 50 | 500 | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT4H-L76 | $\begin{aligned} & 14.6 \\ & (371) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |

[^1]Designed for packaging and color-coding applications. Ties are offered in four "hot" colors: Orange, Yellow, Green and Pink.


| Part Number | Color | Length A in. (mm) | Width B in. (mm) | Thickness C in. (mm) | Head Height D | Head Width E | Max. <br> Bundle <br> Dia. <br> in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |

MINIATURE CROSS SECTION

| PLT1M-M53 | Orange | $\begin{gathered} 3.9 \\ (99) \end{gathered}$ | $\begin{aligned} & .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & .043 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & .154 \\ & (3.9) \end{aligned}$ | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{gathered} .87 \\ (22) \end{gathered}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GTH, GS2B, PTS, PPTS or STS2 | - | - | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT1M-M54 | Yellow |  |  |  |  |  |  |  |  | - | - | 1000 | 50000 |
| PLT1M-M55 | Green |  |  |  |  |  |  |  |  | - | - | 1000 | 50000 |
| PLT1M-M59 | Pink |  |  |  |  |  |  |  |  | - | - | 1000 | 50000 |

INTERMEDIATE CROSS SECTION

| PLT21-M53 | Orange | $\begin{gathered} 8.0 \\ (203) \end{gathered}$ | $\begin{aligned} & .142 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & .045 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{aligned} & .240 \\ & (6.1) \end{aligned}$ | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  | GTS, GTH, GS2B, PTS, PPTS or STS2 | - | - | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT21-M54 | Yellow |  |  |  |  |  |  | $\begin{gathered} 30 \\ (133) \end{gathered}$ |  | - | - | 1000 | 25000 |
| PLT21-M55 | Green |  |  |  |  |  |  |  |  | - | - | 1000 | 25000 |
| PLT21-M59 | Pink |  |  |  |  |  |  |  |  | - | - | 1000 | 25000 |

STANDARD CROSS SECTION

| PLT2S-M53 | Orange | $\begin{gathered} 7.4 \\ (188) \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .316 \\ & (8.0) \end{aligned}$ | $\begin{aligned} & 1.88 \\ & (48) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | - | - | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLT2S-M54 | Yellow |  |  |  |  |  |  |  |  | - | - | 1000 | 10000 |
| PLT2S-M55 | Green |  |  |  |  |  |  |  |  | - | - | 1000 | 10000 |
| PLT2S-M59 | Pink |  |  |  |  |  |  |  |  | - | - | 1000 | 10000 |
| PLT3S-M53 | Orange | $\begin{aligned} & 11.5 \\ & (292) \end{aligned}$ |  |  |  | $\begin{aligned} & .337 \\ & (8.6) \end{aligned}$ | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | - | - | 1000 | 10000 |
| PLT3S-M54 | Yellow |  |  |  |  |  |  |  |  | - | - | 1000 | 10000 |
| PLT3S-M55 | Green |  |  |  |  |  |  |  |  | - | - | 1000 | 10000 |
| PLT3S-M59 | Pink |  |  |  |  |  |  |  |  | - | - | 1000 | 10000 |

## PANIUIT

Part Number Suffix Codes for All PaN-TY ${ }^{\circledR}$ Cable Ties
Part Number System (Example of PLT2S-C)

## PLT

## Part Description

$\mathrm{P}=\mathrm{PANDUIT}^{\oplus}$ (at beginning of $\mathrm{P} / \mathrm{N}$ )
L = Locking
T = Tie
C = Clamp
F = Flag
M = Marker
R = Releasable
W = Wing
$\mathrm{P}=$ Push Mount
U = Umbrella


## Size:

Approximate Maximum Bundle Diameter in Inches
Cross Section:
$\mathrm{SM}=$ Subminiature
$\mathrm{M}=$ Miniature
$\mathrm{I}=$ Intermediate
$\mathrm{S}=$ Standard
$\mathrm{LH}=$ Light-Heavy
$\mathrm{H}=$ Heavy
$\mathrm{EH}=$ Extra-Heavy


## Screw Hole Size:

(Clamp Ties Only)
-S4 = \#4 (M2.5)
-S6 = \#6 (M3)
-S8 = \#8 (M4)
-S10 = \#10 (M5)
$-S 25=1 / 4(M 6)$

## Color:

See Material/Color chart. Not all ties available in all colors.

## Material/Color Chart

| Material/Color | $\begin{array}{\|c\|} \hline \text { PANDUIT } \\ \text { Suffix* } \end{array}$ | Mil Spec Suffix** | Material/Color | $\begin{array}{\|c\|} \hline \text { PANDUIT } \\ \text { Suffix* } \end{array}$ | Mil Spec Suffix** |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nylon 6.6 - Natural (See Note) | $\checkmark$ | 9 | Heat Stabilized Nylon 6.6 - Black | 30 | N/A |
| Weather Resistant Nylon 6.6 - | 0 | N/A | Heat Stabilized Nylon 6.6-Natural | 39 | N/A |
| Black |  |  | Nylon 6.6 - Fluorescent Orange | 53 | N/A |
| Weather Resistant Nylon 6.6 - | 00 | 0 | Nylon 6.6 - Fluorescent Yellow | 54 | N/A |
| Black (meets MIL Spec.) |  |  | Nylon 6.6 - Fluorescent Green | 55 | N/A |
| Nylon 6.6 - Brown | 1 | 1 | Nylon 6.6 - Fluorescent Pink | 59 | N/A |
| Nylon 6.6 - Red | 2 | 2 | Flame Retardant Nylon 6.6 - Black | 60 | N/A |
| Nylon 6.6-Orange | 3 | 3 | Flame Retardant Nylon 6.6 - Ivory | 69 | N/A |
| Nylon 6.6 - Yellow | 4 | 4 | TEFZEL*** - Aqua Blue | 76 | N/A |
| Nylon 6.6 - Green | 5 | 5 | Weather Resistant Polypropylene - Black | 100 | N/A |
| Nylon 6.6 - Blue | 6 | 6 | Natural Polypropylene - Green | 109 | N/A |
| Nylon 6.6 - Purple | 7 | 7 | Nylon 12 - Black | 120 | N/A |
| Nylon 6.6 - Gray | 8 | 8 | Heat Stabilized Weather Resistant | 300 | N/A |
| Nylon 6.6 - White | 10 | N/A | Nylon 6.6 - Black |  |  |
| Nylon 6.6 - Telephone Gray | 14 | N/A | HALAR**** Maroon | 702 | N/A |

${ }^{*}$ NOTE: $\boldsymbol{V}$ designates PANDUIT® standard Natural Nylon 6.6 color/material. No suffix required in part number.
${ }^{* *}$ NOTE: MIL SPEC Color (suffix) per AS33671 (Formerly MS3367) and SAE AS33681 (Formerly MS3368).
${ }^{* * *}$ TEFZEL is a registered trademark of E.I. DuPont de Nemours Co.
****HALAR is a registered trademark of Solvay Solexis, Inc.

| Standard Packaging |  |  | Bulk Packaging |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) | Part Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) |
| PLC1M-S4-C | $\checkmark$ | 0 | PLC1M-S4-M | $\checkmark$ | 0,30 |
| PLC1.5I-S8-C | $\checkmark$ | 0 | PLC1.5I-S8-M | $\checkmark$ | 0,30 |
| PLC2S-S6-C | $\checkmark$ | 0 | PLC2S-S6-M | $\checkmark$ | 0 |
| PLC2S-S10-C | $\checkmark$ | 0, 14 | PLC2S-S10-M | $\checkmark$ | 0, 20, 30 |
| PLC3S-S10-C | $\checkmark$ | 0 | PLC3S-S10-M | $\checkmark$ | 0 |
| PLC4S-S10-C | $\checkmark$ | 0 | PLC4S-S10-M | $\checkmark$ | 0,30 |
| PLC2H-S25-L | $\checkmark$ |  | PLC2H-S25-TL | $\checkmark$ | 0,30 |
| PLC4H-S25-L | $\checkmark$ | 0 | PLC4H-S25-TL | $\checkmark$ | 0,30 |
| PLF1M-C | $\checkmark$ | 0 | PLF1M-M | $\checkmark$ | 0, 2, 3, 4, 6, 10, 69 |
| PLF1MA-C | $\checkmark$ | 3, 4 | PLF1MA-M | $\checkmark$ | 0, 2, 3, 4, 5, 6, 10 |
| PLF1MB-C | $\checkmark$ |  | PLF1MB-M | $\checkmark$ |  |
| PLM1M-C | $\checkmark$ | 0 | PLMIM-M | $\checkmark$ | 0, 1, 2, 3, 4, 5, 6, 7, 8, 10, 69 |
| PLM2M-C | $\checkmark$ |  | PLM2M-M | $\checkmark$ | 0, 4, 6 |
| PLM2S-C | $\checkmark$ | 0, 4 | PLM2S-D | $\checkmark$ | 0, 2, 3, 4, 5, 6, 8 |
| PLM4S-C | $\checkmark$ |  | PLM4S-D | $\checkmark$ | 0, 2, 4, 6 |

## PANDUIT ${ }^{\oplus}$ Part Number Suffix Codes for All Pan-TY ${ }^{\circledR}$ Cable Ties

| Standard Packaging |  |  | Bulk Packaging |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) | Part Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) |
| PL2M2S-L | $\checkmark$ | 0 | PL2M2S-D | $\checkmark$ | 0, 4, 10 |
| PL3M2S-L | $\checkmark$ |  | PL3M2S-D | $\checkmark$ | 0, 4 |
| PLP1.5I-C | $\checkmark$ |  | PLP1.5I-M | $\checkmark$ | 0,30 |
|  |  |  | PLP1S-M | $\checkmark$ | 0,30 |
|  |  |  | PLP1.5S-M | $\checkmark$ |  |
| PLP2S-C | $\checkmark$ |  | PLP2S-M | $\checkmark$ | 0,30 |
| PLT.6SM-C | $\checkmark$ | 0 | PLT.6SM-M | $\checkmark$ | 0,30 |
| PLT.7M-C | $\checkmark$ |  | PLT.7M-M | $\checkmark$ | 0,30 |
| PLT1M-C | $\checkmark$ | $\begin{aligned} & 0,00,1,2,3,4,5,6,7 \\ & 8,10,14,30,76,702 \end{aligned}$ | PLT1M-M | $\checkmark$ | $0,00,1,2,3,4,5,6,7,8,10,14$, 20, 30, 53, 54, 55, 59, 60, 69, 76, 100, 109, 300, 702 |
|  |  |  | PLT1M-XMR | $\checkmark$ | 0, 1, 2, 3, 4, 5, 6, 7, 8, 10, 30 |
| PLT1.5M-C | $\checkmark$ | 0 | PLT1.5M-M | $\checkmark$ | $\begin{aligned} & 0,00,1,2,3,4,5,6,7,8,10,14 \\ & 20,30 \end{aligned}$ |
|  |  |  | PLT1.5M-XMR | $\checkmark$ | 0, 00, 30 |
| PLT2M-C | $\checkmark$ | 0 | PLT2M-M | $\checkmark$ | $\begin{aligned} & 0,1,2,3,4,5,6,7,8,10,20,30, \\ & 69 \end{aligned}$ |
| PLT1.5I-C | $\checkmark$ | $\begin{aligned} & 0,1,2,3,4,5,6,7,8, \\ & 10,20,30 \end{aligned}$ | PLT1.5I-M | $\checkmark$ | $\begin{aligned} & 0,00,1,2,3,4,5,6,7,8,10,20, \\ & 30,69,100,109,120,300 \end{aligned}$ |
| PLT2I-C | $\checkmark$ | 0, 14, 30, 76 | PLT2I-M | $\checkmark$ | $\begin{aligned} & 0,1,2,3,4,5,6,7,8,10,14,20 \\ & 30,53,54,55,59,69,76,300 \end{aligned}$ |
| PLT2.5I-C | $\checkmark$ | 0 | PLT2.5I-M | $\checkmark$ | 0,20 |
| PLT3I-C | $\checkmark$ | 0, 14 | PLT3I-M | $\checkmark$ | 0, 2, 3, 4, 5, 6, 8, 10, 14, 20, 30 |
| PLT4I-C | $\checkmark$ | 0,14 | PLT4I-M | $\checkmark$ | 0, 2, 5, 6, 14, 20, 30 |
| PLT1S-C | $\checkmark$ | 0 | PLT1S-M | $\checkmark$ | 0, 30, 38, 300 |
| PLT1.5S-C | $\checkmark$ | 0 | PLT1.5S-M | $\checkmark$ | 0,30 |
| PLT2S-C | $\checkmark$ | $\begin{aligned} & 0,00,1,2,3,4,5,6,7 \\ & 8,10,20,30,76,702 \end{aligned}$ | PLT2S-M | $\checkmark$ | $0,00,1,2,3,4,5,6,7,8,10,20$, $30,38,39,53,54,55,59,60,69$, 76, 100, 109, 120, 300, 702 |
| PLT2.5S-C | $\checkmark$ | 0 | PLT2.5S-M | $\checkmark$ | 0, 30 |
| PLT3S-C | $\checkmark$ | 0, 00, 2, 20, 30, 76, 702 | PLT3S-M | $\checkmark$ | $0,00,1,2,3,4,5,6,7,8,10,20$, $30,53,54,55,59,76,100,109$, 702 |
| PLT4S-C | $\checkmark$ | $\begin{aligned} & 0,00,2,3,4,5,6,8,20 \\ & 30,76 \end{aligned}$ | PLT4S-M | $\checkmark$ | $\begin{aligned} & 0,00,1,2,3,4,5,6,7,8,10,14 \\ & 20,30,69,76,100,109,120,300 \end{aligned}$ |
| PLT4.5S-C | $\checkmark$ | 0 | PLT4.5S-M | $\checkmark$ | 0 |
| PLT5S-C | $\checkmark$ | 0 | PLT5S-M | $\checkmark$ | 0, 2, 3, 4, 5, 6, 8, 30 |
| PLT6LH-L | $\checkmark$ | 0 | PLT6LH-C | $\checkmark$ | 0 |
| PLT7LH-L | $\checkmark$ | 0 | PLT7LH-C | $\checkmark$ | 0,30 |
| PLT8LH-L | $\checkmark$ | 0 | PLT8LH-C | $\checkmark$ | 0,120 |
| PLT8LH-Q |  | 0 |  |  |  |
| PLT9LH-L | $\checkmark$ | 0 | PLT9LH-C | $\checkmark$ | 0,30 |
| PLT10LH-L | $\checkmark$ |  | PLT10LH-C | $\checkmark$ |  |
| PLT2H-L | $\checkmark$ | 0 | PLT2H-TL | $\checkmark$ | 0, 2, 4, 6, 30, 100, 109, 300 |
| PLT2.5H-L | $\checkmark$ | 0 | PLT2.5H-TL | $\checkmark$ | 0 |
| PLT3H-L | $\checkmark$ | 0,76 | PLT3H-TL | $\checkmark$ | 0,30, 76, 100, 109 |
| PLT4H-L | $\checkmark$ | 0, 00, 76 | PLT4H-TL | $\checkmark$ | $\begin{aligned} & 0,00,1,2,3,4,5,6,10,20,30, \\ & 69,76,100,109,120,300 \end{aligned}$ |
| PLT4H-C | $\checkmark$ | 0 |  |  |  |
| PLT5H-L | $\checkmark$ | 0 | PLT5H-C | $\checkmark$ | 0,30 |
| PLT6H-L | $\checkmark$ | 0 | PLT6H-C | $\checkmark$ | 0,30 |
| PLT8H-Q |  | 0 | PLT8H-C | $\checkmark$ | 0, 00, 30 |
| PLT8H-L | $\checkmark$ | 0 |  |  |  |
| PLT13H-Q | $\checkmark$ | 0 | PLT13H-C | $\checkmark$ | 0, 3 |
| PLT2EH-Q |  | 0 | PLT2EH-C | $\checkmark$ | 0 |

## PANDUIT ${ }^{\oplus}$ Part Number Suffix Codes for All Pan-TY ${ }^{\circledR}$ Cable Ties

| Standard Packaging |  |  | Bulk Packaging |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) | Part Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) |
|  |  |  | PLT3EH-NB-C |  | 0 |
| PLT5EH-Q | $\checkmark$ | 0 | PLT5EH-C | $\checkmark$ | 0 |
|  |  |  | PLT5EH-NB-C |  | 0 |
| PLT6EH-Q | $\checkmark$ | 0 | PLT6EH-C | $\checkmark$ | 0 |
|  |  |  | PLT6EH-NB-C |  | 0 |
| PLT8EH-Q |  | 0 | PLT8EH-C | $\checkmark$ | 0 |
| PLT10EH-Q |  | 0 | PLT10EH-C | $\checkmark$ | 0 |
| PLT12EH-Q |  | 0 | PLT12EH-C | $\checkmark$ | 0 |
|  |  |  | PLUP40S-D |  | 30 |
|  |  |  | PLUP40SE-D | $\checkmark$ | 30 |
| PLWP1M-C | $\checkmark$ |  | PLWP1M-D | $\checkmark$ | 0,30 |
| PLWP1.5I-C | $\checkmark$ |  | PLWP1.5I-D | $\checkmark$ | 30 |
| PLWP1S-C | $\checkmark$ | 0 | PLWP1S-D | $\checkmark$ | 0,20,30 |
|  |  |  | PLWP1SA-D | $\checkmark$ |  |
|  |  |  | PLWP1SB-D | $\checkmark$ |  |
|  |  |  | PLWP1.5S-D | $\checkmark$ | 30 |
|  |  |  | PLWP1.5SA-D | $\checkmark$ |  |
| PLWP2S-C | $\checkmark$ | 0 | PLWP2S-D | $\checkmark$ | 0,30 |
|  |  |  | PLWP2SA-D | $\checkmark$ |  |
|  |  |  | PLWP2SB-D | $\checkmark$ |  |
|  |  |  | PLWP2H-TL | $\checkmark$ | 0,30 |
|  |  |  | PLWP3H-TL | $\checkmark$ | 0 |
|  |  |  | PLWP30SC-D |  | 30 |
|  |  |  | PLWP40SC-D |  | 30 |
|  |  |  | PLWP40SD-D |  | 30 |
|  |  |  | PLWP50SC-D |  | 30 |
|  |  |  | PLWP50SE-D |  | 30 |
|  |  |  | PRLWP30S-D |  | 30 |
|  |  |  | PRLWP50S-D |  | 30 |
| PRT1S-C | $\checkmark$ | 0 | PRT1S-M | $\checkmark$ | 0 |
| PRT1.5S-C | $\checkmark$ | 0 | PRT1.5S-M | $\checkmark$ | 0,30 |
| PRT2S-C | $\checkmark$ | 0 | PRT2S-M | $\checkmark$ | 0, 2, 3, 4, 6, 7 |
| PRT3S-C | $\checkmark$ | 0 | PRT3S-M | $\checkmark$ | 0 |
| PRT4S-C | $\checkmark$ | 0 | PRT4S-M | $\checkmark$ | 0, 2, 3, 4, 6 |
| PRT2H-L | $\checkmark$ | 0 | PRT2H-TL | $\checkmark$ | 0 |
| PRT3H-L | $\checkmark$ | 0 | PRT3H-TL | $\checkmark$ | 0 |
| PRT4H-L | $\checkmark$ | 0 | PRT4H-TL | $\checkmark$ | 0 |
| PRT2EH-Q |  | 0 | PRT2EH-C | $\checkmark$ | 0,100 |
| PRT5EH-Q | $\checkmark$ | 0 | PRT5EH-C | $\checkmark$ | 0,100 |
| PRT6EH-Q | $\checkmark$ | 0 | PRT6EH-C | $\checkmark$ | 0,100 |
| PRT8EH-Q |  | 0 | PRT8EH-C | $\checkmark$ | 0,100 |
| PRT10EH-Q |  | 0 | PRT10EH-C | $\checkmark$ | 0 |
| PRT12EH-Q |  | 0 | PRT12EH-C | $\checkmark$ | 0 |
| PRWP1S-C | $\checkmark$ |  | PRWP1S-D | $\checkmark$ | 0 |
|  |  |  | PRWP1SA-D | $\checkmark$ |  |
|  |  |  | PRWP1SB-D | $\checkmark$ |  |
|  |  |  | PRWP1.5S-D | $\checkmark$ | 0,20,30 |
|  |  |  | PRWP2S-D | $\checkmark$ | 0 |
|  |  |  | PRWP2H-TL | $\checkmark$ |  |
|  |  |  | PRST30S-S14-M |  | 30 |

## Dоме-ToР ${ }^{\circledR}$ Barb Ty Cable Tie Features/Benefits

## 1. Dome-Top ${ }^{\circledR}$ Head



- Unique patented design
- Round smooth edges
- No irritation to installer's hands


## 4. High Tensile Strength



- Exceeds industry and Aerospace Standard SAE (AS23190) standards
- Available in four loop tensile strengths from 18 lbs. (80N) to 120 lbs. (534N) to provide a wide selection


## 7. Curved Tip



- Orients tip toward head to speed installation; lowers installed cost
- Faster initial threading
- Easier to pick up from flat surfaces


## 2. Stainless Steel Barb



- Made of 316 corrosion resistant stainless steel
- Provides consistent performance and reliability for users who prefer a cable tie with a metal barb
- Infinitely adjustable for tight bundles through its entire bundle range


## 5. Anti-Slip Strap Body



- Ribbed and stippled strap body prevents axial and lateral movement


## 8. Material/Size Availability



- Available in lengths from 4.0" (102mm) to 30.7" (780mm) to meet a variety of applications
- Several materials available for special environments: Natural 6.6 nylon, weather resistant black 6.6 nylon, heat stabilized 6.6 nylon and 11 different colors


## 3. Low Threading Force



- Reduces installer fatigue
- Increases productivity


## 6. Finger Tip Grip



- Exclusively designed finger grip is available on all sizes of Dome-Top ${ }^{\circledR}$ Barb Ty Cable Ties to assure positive grip during threading of the tie


## PANDUIT ${ }^{\oplus}$ Dome-Top ${ }^{\circledR}$ Barb Ty Cable Ties (BT Series)

## Dоме-Top ${ }^{\circledR}$ Barb Ty Nylon 6.6 Locking Cable Ties



Side View


Front View

- Available in Miniature, Intermediate, Standard and Light-Heavy cross sections
- Bundle diameters up to 9.00 " ( 229 mm )
- Available in natural, weather resistant and heat stabilized nylon and 11 different colors
- Tool or hand installed


|  |  |  |  |  |  |  |  | Recommended | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| tNum | Length <br> A <br> in. (mm) | Width B in. (mm) | Thickness C in. (mm) | Height <br> in (mm) | Width E in. (mm) | Bundle Dia. in. (mm) | Tensile Strength Lbs. (N) | PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

MINIATURE CROSS SECTION

| BT1M-C | $\begin{gathered} \hline 4.0 \\ (102) \end{gathered}$ | $\text { . } 2.45$ | $\begin{aligned} & \hline .036 \\ & (0.9) \end{aligned}$ | $\begin{aligned} & .156 \\ & (4.0) \end{aligned}$ | $\begin{aligned} & .172 \\ & (4.4) \end{aligned}$ | $\begin{aligned} & \hline .90 \\ & (23) \end{aligned}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BT1.5M-C | $\begin{gathered} 6.3 \\ \hline(160) \end{gathered}$ |  | $\begin{aligned} & .046 \\ & (1.2) \end{aligned}$ |  | $\begin{aligned} & .182 \\ & (4.6) \end{aligned}$ | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| BT2M-C | $\begin{gathered} \hline 7.9 \\ (201) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| BT4M-C | $\begin{aligned} & 14.2 \\ & (361) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |

INTERMEDIATE CROSS SECTION

| BT1.51-C | $\begin{gathered} \hline 6.1 \\ (155) \\ \hline \end{gathered}$ | $\begin{aligned} & .141 \\ & (3.6) \end{aligned}$ | . 041 | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .248 \\ & (6.3) \end{aligned}$ | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BT2I-C | $\begin{gathered} 8.0 \\ (203) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| BT3I-C | $\begin{aligned} & 11.3 \\ & (287) \end{aligned}$ |  | $\begin{array}{r} .049 \\ (1.2) \end{array}$ |  |  | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| BT4I-C | $\begin{array}{r} 14.3 \\ (363) \end{array}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |

STANDARD CROSS SECTION

| BT2S-C | $\begin{gathered} 8.0 \\ (203) \\ \hline \end{gathered}$ | $\begin{array}{r} .185 \\ (4.7) \end{array}$ | $\begin{aligned} & \hline .045 \\ & (1.2) \\ & \hline \end{aligned}$ | $\begin{array}{r} .220 \\ (5.6) \end{array}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BT3S-C | $\begin{aligned} & 12.0 \\ & (305) \end{aligned}$ |  | $\begin{array}{r} .052 \\ (1.3) \end{array}$ |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| BT4S-C | $\begin{aligned} & 15.1 \\ & (384) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |

LIGHT-HEAVY CROSS SECTION (STRAIGHT TIP)

| BT2LH-L | $\begin{gathered} 8.7 \\ (221) \\ \hline \end{gathered}$ | $\begin{array}{r} 275 \\ (7.0) \end{array}$ | $\begin{aligned} & .065 \\ & (1.7) \end{aligned}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | $\begin{gathered} .520 \\ (13.2) \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | $\begin{aligned} & \text { GTH, GS4H, } \\ & \text { GS4EH, } \\ & \text { PPTEH, STH2 } \\ & \text { or ST2EH } \end{aligned}$ | 50 | 500 | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BT3LH-L | $\begin{aligned} & 11.8 \\ & (300) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |
| BT4LH-L | $\begin{array}{r} 14.9 \\ (378) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 50 | 500 | 250 | 2500 |
| BT5LH-L | $\begin{array}{r} 18.1 \\ (460) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} \hline 5.00 \\ (127) \\ \hline \end{array}$ |  |  | 50 | 500 | 100 | 2000 |
| BT6LH-L | $\begin{array}{r} 21.2 \\ (538) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 6.00 \\ (152) \\ \hline \end{array}$ |  |  | 50 | 500 | 100 | 2000 |
| BT7LH-L | $\begin{aligned} & \hline 24.4 \\ & (620) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{gathered} \hline 7.00 \\ (178) \\ \hline \end{gathered}$ |  |  | 50 | 500 | 100 | 2000 |
| BT8LH-L | $\begin{aligned} & 27.5 \\ & (699) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 8.00 \\ & (203) \end{aligned}$ |  |  | 50 | 500 | 100 | 1000 |
| BT9LH-L | $\begin{array}{r} 30.7 \\ (780) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} \hline 9.00 \\ (229) \\ \hline \end{array}$ |  |  | 50 | 500 | 100 | 1000 |

Dоме-Top ${ }^{\circledR}$ Barb Ty Weather Resistant Nylon 6.6 Locking Cable Ties


Side View


Front View

- Available in Miniature, Intermediate, Standard and Light-Heavy cross sections
- Bundle diameters up to 9.00 ( 229 mm )
- Weather resistant nylon has greater resistance to ultraviolet light which damages natural nylon
- Tool or hand installed


LISTED
Except LH-0 Ties

C B US $^{\text {B }}$
Except LH-0 Ties

| Part <br> Number | Length A in. (mm) | Width B in. (mm) | Thickness C in. (mm) | Head Height D <br> in. (mm) | Head Width E in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

MINIATURE CROSS SECTION

| BT1M-C0 | $\begin{gathered} \hline 4.0 \\ (102) \\ \hline \end{gathered}$ | $\begin{aligned} & .095 \\ & (2.4) \end{aligned}$ | $\begin{aligned} & \hline .036 \\ & (0.9) \\ & \hline \end{aligned}$ | $\begin{aligned} & .156 \\ & (4.0) \end{aligned}$ | $\begin{aligned} & \hline .172 \\ & (4.4) \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline .90 \\ (23) \\ \hline \end{array}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BT1.5M-C0 | $\begin{gathered} 6.3 \\ (160) \end{gathered}$ |  | $\begin{aligned} & .046 \\ & (1.2) \end{aligned}$ |  | $\begin{aligned} & .182 \\ & (4.6) \end{aligned}$ | $\begin{aligned} & \hline 1.50 \\ & (38) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| BT2M-C0 | $\begin{gathered} 7.9 \\ (201) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| BT4M-C0 | $\begin{aligned} & 14.2 \\ & (361) \end{aligned}$ |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 10000 |

INTERMEDIATE CROSS SECTION

| BT1.5I-C0 | $\begin{gathered} 6.1 \\ (155) \\ \hline \end{gathered}$ | $\begin{aligned} & .141 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & .041 \\ & (1.0) \end{aligned}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .248 \\ & (6.3) \end{aligned}$ | $\begin{aligned} & \hline 1.50 \\ & (38) \\ & \hline \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BT21-C0 | $\begin{gathered} 8.0 \\ (203) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| BT31-C0 | $\begin{aligned} & \hline 11.3 \\ & (287) \end{aligned}$ |  | . 049 |  |  | $\begin{aligned} & \hline 3.00 \\ & (76) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| BT4I-C0 | $\begin{gathered} 14.3 \\ (363) \\ \hline \end{gathered}$ |  | (1.2) |  |  | $\begin{aligned} & \hline 4.00 \\ & (102) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |

STANDARD CROSS SECTION

| BT2S-C0 | $\begin{gathered} \hline 8.0 \\ (203) \end{gathered}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B <br> GTH, GS4H, <br> PTS, PPTS, <br> STS2 or STH2 | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BT3S-C0 | $\begin{aligned} & 12.0 \\ & (305) \end{aligned}$ |  | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| BT4S-C0 | $\begin{aligned} & 15.1 \\ & (384) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 5000 |

LIGHT-HEAVY CROSS SECTION (STRAIGHT TIP)

| BT2LH-LO | $\begin{gathered} \hline 8.7 \\ (221) \\ \hline \end{gathered}$ | $\begin{aligned} & .275 \\ & (7.0) \end{aligned}$ | $\begin{aligned} & .065 \\ & (1.7) \end{aligned}$ | $\begin{array}{r} .320 \\ (8.1) \end{array}$ | $\begin{gathered} .520 \\ (13.2) \end{gathered}$ | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | GTH, GS4H, GS4EH, PPTEH, STH2, or ST2EH | 50 | 500 | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BT3LH-LO | $\begin{aligned} & \hline 11.8 \\ & (300) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |
| BT4LH-L0 | $\begin{array}{r} 14.9 \\ (378) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \\ & \hline \end{aligned}$ |  |  | 50 | 500 | 250 | 2500 |
| BT5LH-L0 | $\begin{array}{r} 18.1 \\ (460) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 5.00 \\ & (127) \\ & \hline \end{aligned}$ |  |  | 50 | 500 | 100 | 2000 |
| BT6LH-L0 | $\begin{aligned} & 21.2 \\ & (538) \end{aligned}$ |  |  |  |  | $\begin{gathered} 6.00 \\ (152) \end{gathered}$ |  |  | 50 | 500 | 100 | 2000 |
| BT7LH-L0 | $\begin{aligned} & 24.4 \\ & (620) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{aligned} & 7.00 \\ & (178) \\ & \hline \end{aligned}$ |  |  | 50 | 500 | 100 | 2000 |
| BT8LH-L0 | $\begin{aligned} & 27.5 \\ & (699) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 8.00 \\ & (203) \end{aligned}$ |  |  | 50 | 500 | 100 | 1000 |
| BT9LH-L0 | $\begin{aligned} & \hline 30.7 \\ & (780) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{gathered} 9.00 \\ (229) \end{gathered}$ |  |  | 50 | 500 | 100 | 1000 |

## PANDUIT ${ }^{\oplus}$ Dome-Top ${ }^{\circledR}$ Barb Ty Heat Stabilized Cable Ties (BT Series)

Dоме-Top ${ }^{\circledR}$ Barb Ty
Heat Stabilized
Nylon 6.6
Natural Color


Side View

- Available in Miniature, Intermediate, Standard and Light-Heavy cross sections
- Bundle diameters up to 4.00 " (102mm)
- Temperature rating: $-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $239^{\circ} \mathrm{F}\left(115^{\circ} \mathrm{C}\right)$


|  |  |  |  |  |  | Max. |  | Recommended | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Length A in. (mm) | $\begin{gathered} \text { Width } \\ \text { B } \\ \text { in. (mm) } \end{gathered}$ | Thickness C in. (mm) | Height <br> D <br> in. (mm) | $\begin{aligned} & \text { Width } \\ & E \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ | Bundle Dia. <br> in. (mm) | Tensile Strength Lbs. (N) | PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. | MIINIATURE CROSS SECTION


| BT1M-M39 $\ddagger$ | $\begin{gathered} \hline 4.0 \\ (102) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline .095 \\ & (2.4) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline .036 \\ & (0.9) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline .156 \\ & (4.0) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline .172 \\ & (4.4) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline .90 \\ & (23) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 18 \\ (80) \\ \hline \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | - | - | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INTERMEDIATE CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |
| BT1.5I-M39 $\ddagger$ | $\begin{gathered} \hline 6.1 \\ (155) \\ \hline \end{gathered}$ | $\begin{aligned} & .141 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & .041 \\ & (1.0) \end{aligned}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & \hline .248 \\ & (6.3) \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | - | - | 1000 | 25000 | STANDARD CROSS SECTION


| BT2S-M39 $\ddagger$ | $\begin{gathered} 8.0 \\ (203) \end{gathered}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | $\begin{array}{r} 2.00 \\ (51) \end{array}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B GTH, GS4H, PTS, PPTS, STS2 or STH2 | - | - | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BT3S-M39 $\ddagger$ | $\begin{aligned} & 12.0 \\ & (305) \end{aligned}$ |  | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ |  |  | $\begin{aligned} & \hline 3.00 \\ & (76) \end{aligned}$ |  |  | - | - | 1000 | 10000 |
| BT4S-M39 $\ddagger$ | $\begin{aligned} & 15.1 \\ & (384) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | - | - | 1000 | 5000 |

LIGHT-HEAVY CROSS SECTION (STRAIGHT TIP)

| BT4LH-TL39 $\ddagger$ | 14.9 <br> $(378)$ | .275 <br> $(7.0)$ | .065 <br> $(1.7)$ | .320 <br> $(8.1)$ | .520 <br> $(13.2)$ | 4.00 <br> $(102)$ | 120 <br> $(534)$ | GTH,GS4H, <br> GS4EH, PPTEH, <br> STH2 or ST2EH | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 250 |  |  |  |  |  |  |  |  |  |  |

## Dоме-Top ${ }^{\circledR}$ Barb Ty Nylon 6.6 Winged Push Mount Ties



Push mount ties are used to attach a cable bundle to a surface such as a flat panel. The anchor is easily pressed into a pre-drilled hole and locks in place. The wings provide constant tension when installed, creating a stable, secure fixture and rattle-free installation.

${ }_{c} \mathrm{M}_{\text {us }}$

|  | $\begin{gathered} \text { Length } \\ \text { A } \\ \text { in. } \\ (\mathrm{mm}) \end{gathered}$ | Width B in. (mm) | $\begin{aligned} & \text { Thickness } \\ & \text { C } \\ & \text { in. (mm) } \end{aligned}$ | Head Height D <br> in. (mm) | Nominal Hole Dia. in. (mm) | Max. Panel Thickness in. (mm) | Max. <br> Bundle <br> Dia. <br> in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number |  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| INTERMEDIATE CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BW1.5I-D | $\begin{gathered} 6.6 \\ (168) \end{gathered}$ | $\begin{aligned} & .141 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & \hline .041 \\ & (1.0) \end{aligned}$ | $\begin{aligned} & \hline 280 \\ & (7.1) \end{aligned}$ | $\begin{aligned} & .187 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & \hline .093 \\ & (2.4) \end{aligned}$ | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS,PPTS or STS2 | - | - | 500 | 5000 |

STANDARD CROSS SECTION

| BW2S-D | $\begin{gathered} 8.5 \\ (216) \end{gathered}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .370 \\ & (9.4) \end{aligned}$ | $\begin{aligned} & .250 \\ & (6.4) \end{aligned}$ | $\begin{aligned} & .156 \\ & (4.0) \end{aligned}$ | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B <br> GTH, GS4H, <br> PTS, PPTS, <br> STS2 or STH2 | - | - | 500 | 5000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Dоме-Top ${ }^{\circledR}$ Barb Ty Nylon 6.6 Clamp Ties


Side View


Front View

- Used to secure a bundle to another surface
- The design allows for bundling before or after screwing clamp in place
- Available in Miniature, Intermediate, Standard and Light-Heavy cross sections
- Bundle diameters up to 4.00 ( 102 mm )
- Available in natural, weather resistant and heat stabilized black nylon

 MINIATURE CROSS SECTION

| BC1MS4-M $\ddagger$ | $\begin{gathered} 4.6 \\ (117) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline .095 \\ & (2.4) \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline .046 \\ (1.2) \\ \hline \end{array}$ | $\begin{aligned} & \hline .156 \\ & (4.0) \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline .234 \\ (5.9) \\ \hline \end{array}$ | $\begin{gathered} .124 \\ (3.15) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { \#4 } \\ \text { (M2.5) } \end{gathered}$ | $\begin{array}{r} \hline .90 \\ (23) \\ \hline \end{array}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BC2M-S4-M $\ddagger$ | $\begin{gathered} 8.3 \\ (211) \\ \hline \end{gathered}$ | $\begin{aligned} & .095 \\ & (2.4) \end{aligned}$ | $\begin{aligned} & .046 \\ & (1.2) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 156 \\ & (4.0) \end{aligned}$ | $\begin{array}{r} .234 \\ (5.9) \\ \hline \end{array}$ | $\begin{gathered} .124 \\ (3.15) \\ \hline \end{gathered}$ | $\begin{gathered} \# 4 \\ \text { (M2.5) } \end{gathered}$ | $\begin{array}{r} \hline 2.0 \\ (51) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 25000 |

## INTERMEDIATE CROSS SECTION

| BC1.5l-S8-M $\ddagger$ | $\begin{gathered} \hline 6.6 \\ (168) \end{gathered}$ | $\begin{aligned} & .141 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & \hline .041 \\ & (1.0) \end{aligned}$ | $\begin{aligned} & \hline .166 \\ & (4.2) \end{aligned}$ | $\begin{aligned} & .330 \\ & (8.4) \end{aligned}$ | $\begin{gathered} .180 \\ (4.57) \end{gathered}$ | $\begin{gathered} \hline \# 8 \\ \text { (M4) } \end{gathered}$ | $\begin{aligned} & \hline 1.5 \\ & (38) \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

STANDARD CROSS SECTION

| BC2S-S10-C | $\begin{gathered} \hline 8.5 \\ (216) \\ \hline \end{gathered}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .160 \\ & (4.1) \end{aligned}$ | $\begin{gathered} .400 \\ (10.2) \end{gathered}$ | $\begin{aligned} & .206 \\ & (5.2) \end{aligned}$ | $\begin{aligned} & \# 10 \\ & \text { (M5) } \end{aligned}$ | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 100 | 1000 | 500 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BC3S-S10-D | $\begin{array}{r} 12.5 \\ (318) \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{aligned} & \hline 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | - | - | 500 | 10000 |
| BC4S-S10-C | $\begin{array}{r} 15.6 \\ (396) \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 500 | 5000 |
| LIGHT-HEAVY CROSS SECTION (STRAIGHT TIP) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BC4LH-S25-L | $\begin{aligned} & 15.5 \\ & (394) \end{aligned}$ | $\begin{aligned} & .275 \\ & (7.0) \end{aligned}$ | $\begin{aligned} & .065 \\ & (1.7) \end{aligned}$ | $\begin{array}{r} .265 \\ (6.7) \end{array}$ | $\begin{gathered} .520 \\ (13.2) \end{gathered}$ | $\begin{aligned} & .260 \\ & (6.6) \end{aligned}$ | $\begin{gathered} \hline 1 / 4 \\ \text { (M6) } \end{gathered}$ | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | $\begin{gathered} \text { GTH, GS4H, } \\ \text { GS4EH, PPTEH, } \\ \text { STH2 or ST2EH } \end{gathered}$ | 50 | 500 | 250 | 2500 |

## Dome-Top® Barb Ty Weather Resistant Nylon Clamp Ties



|  |  |  |  |  |  | Nominal |  |  | Mi |  | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number |  | Width B in. (mm) | Thickness C in. (mm) |  |  |  | Screw Size (Metric) | Bundle Dia. in. (mm) | Loop <br> Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. | STANDARD CROSS SECTION


| BC2S-S10-C0 | $\begin{gathered} 8.5 \\ (216) \\ \hline \end{gathered}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .160 \\ & (4.1) \end{aligned}$ | $\begin{gathered} .400 \\ (10.2) \end{gathered}$ | $\begin{aligned} & .206 \\ & (5.2) \end{aligned}$ | $\begin{gathered} \text { \#10 } \\ \text { (M5) } \end{gathered}$ | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 100 | 500 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BC3S-S10-D0 | $\begin{array}{r} 12.5 \\ (318) \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | - | - | 1000 | 10000 |
| BC4S-S10-C0 | $\begin{array}{r} 15.6 \\ (396) \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 100 | 500 | 1000 | 5000 |

LIGHT-HEAVY CROSS SECTION

| BC4LH-S25-LO | $\begin{aligned} & 15.5 \\ & (394) \end{aligned}$ | $\begin{aligned} & .275 \\ & (7.0) \end{aligned}$ | $\begin{aligned} & .065 \\ & (1.7) \end{aligned}$ | $\begin{aligned} & .265 \\ & (6.7) \end{aligned}$ | $\begin{gathered} .520 \\ (13.2) \end{gathered}$ | $\begin{aligned} & .260 \\ & (6.6) \end{aligned}$ | $\begin{gathered} 1 / 4 \\ \text { (M6) } \end{gathered}$ | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | ```GTH, GS4H, GS4EH, PPTEH, STH2 or ST2EH``` | 50 | 500 | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## PANDUIT ${ }^{\circledR}$ Dome-Top ${ }^{\oplus}$ Barb Ty Marker and Flag Ties (BM/BF Series)

Dоме-Top ${ }^{\circledR}$ Barb Ty Nylon 6.6 Marker and Flag Ties


- Used to fasten and identify bundles at the same time
- They can be marked with PANDUIT ${ }^{\circledR}$ Marker Pens, Custom Hot Stamping Service on page 52 or Computer Printable Labels
- Available in Miniature and Standard Cross Section
- Bundle diameters up to 4.00" (102mm)
- Available in natural and weather resistant nylon

cin us

|  |  |  |  |  |  |  |  |  |  | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | $\begin{gathered} \text { Length } \\ \text { A } \\ \text { in. (mm) } \end{gathered}$ | $\begin{gathered} \text { Width } \\ \text { B } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \end{gathered}$ | Height <br> D <br> in. (mm) | $\begin{aligned} & \text { Width } \\ & \text { E } \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ | Write-on Area in. (mm) | Bundle Dia. in. (mm) | Tensile Strength Lbs. (N) | PANDUIT Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

MINIATURE CROSS SECTION

| BM1M-C | $\begin{gathered} \hline 4.2 \\ (107) \\ \hline \end{gathered}$ | $\begin{aligned} & .095 \\ & (2.4) \end{aligned}$ | $\begin{aligned} & .046 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .156 \\ & (4.0) \end{aligned}$ | $\begin{aligned} & .182 \\ & (4.6) \end{aligned}$ | $\begin{gathered} .29 \times 1.09 \\ (7.4) \times(27.7) \end{gathered}$ | $\begin{array}{r} .90 \\ (23) \\ \hline \end{array}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BM2M-C | $\begin{gathered} 7.9 \\ (201) \end{gathered}$ |  |  |  |  |  | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |



BF1M BF2M

|  |  |  |  | Head | Head | Marker | Max. | Min. Loop | Recommended | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | $\begin{gathered} \text { Length } \\ \text { A } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { Width } \\ B \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | Thickness C in. (mm) | Height D in. (mm) | $\begin{gathered} \text { Width } \\ E \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | Write-on Area in. (mm) | Bundle Dia. <br> in. (mm) | Tensile Strength Lbs. (N) | PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Std. Pkg. Qty.* | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

MINIATURE CROSS SECTION

| BF1M-C | $\begin{gathered} 4.6 \\ (117) \end{gathered}$ | $\begin{aligned} & .095 \\ & (2.4) \end{aligned}$ | $\begin{aligned} & .046 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .156 \\ & (4.0) \end{aligned}$ | $\begin{aligned} & .182 \\ & (4.6) \end{aligned}$ | $\begin{gathered} .36 \times .81 \\ (9.1) \times(20.6) \end{gathered}$ | $\begin{aligned} & \hline .90 \\ & (23) \end{aligned}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BF2M-C | $\begin{gathered} 8.3 \\ (211) \end{gathered}$ |  |  |  |  |  | $\begin{array}{r} 2.00 \\ (51) \end{array}$ |  |  | 100 | 1000 | 1000 | 25000 |



|  | Length <br> A <br> in. (mm) |  | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Head } \\ \text { Height } \\ D \\ \text { in. }(\mathrm{mm}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Head } \\ \text { Width } \\ \text { E } \\ \text { in. }(\mathrm{mm}) \\ \hline \end{gathered}$ | Marker Write-on Area in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number |  | Width B in. (mm) |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| STANDARD CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BM2S-C | $\begin{gathered} \hline 8.0 \\ (203) \end{gathered}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & \hline .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{array}{r} .320 \\ (8.1) \end{array}$ | $\begin{gathered} .49 \times .91 \\ (12.4) \times(23.1) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2BGTH, GS4H, PTS,PPTS or STH2 | 100 | 1000 | 500 | 10000 |
| BM4S-C | $\begin{gathered} 15.1 \\ (384) \end{gathered}$ |  | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ |  |  | $\begin{gathered} .50 \times 2.13 \\ (12.7) \times(54.1) \end{gathered}$ | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 100 | 1000 | 500 | 10000 |

## Dоме-Top® Barb Ty Nylon 6.6 Marker Ties (con't)




B2M2S


B4M2S

| Part Number | Length A in. (mm) | Width B in. (mm) | Thickness <br> C <br> in. (mm) | HeadHeight D | Head Width E | Marker Write-On Area in. (mm) | Max. Dia. | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty.* | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. | STANDARD CROSS SECTION


| B2M2S-D $\ddagger$ | $\begin{gathered} 8.0 \\ (203) \end{gathered}$ | $\begin{aligned} & .185 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | $\begin{gathered} 11.5 \times .91 \\ (29.2) \times(23.1) \\ \hline \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 50 | 500 | 500 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B3M2S-TL $\ddagger$ |  |  |  |  |  | $\begin{gathered} 1.81 \times .91 \\ (46.0) \times(23.1) \\ \hline \end{gathered}$ |  |  |  | 50 | 500 | 250 | 2500 |
| B4M2S-TL $\ddagger$ |  |  |  |  |  | $\begin{gathered} 2.47 \times .91 \\ (62.7) \times(23.1) \\ \hline \end{gathered}$ |  |  |  | 50 | 500 | 250 | 2500 |

## Dura-TY ${ }^{\text {TM }}$ Weather Resistant Cable Ties



- Ideal for all outdoor messenger strand applications including telephone, cable TV, traffic signals and outside plant power services
- Weather Resistant Acetal strap body and head
- Double stainless steel Type 302 locking barbs
- High tensile strength and high impact resistance
- Excellent chemical and moisture resistance
- 250 lbs . Minimum loop tensile strength
- Meets Telcordia TR-TSY-000789
- May be used with Stackable Cable Spacers SACS50-T100 (see page 107)


|  |  |  | ap |  | Head | Head | Max | Min. Loop | Recommended | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Description | Length (A) in. (mm) | Width <br> (B) <br> in. (mm) | Thickness <br> (C) <br> in. (mm) | Height in. (mm) | Width in. (mm) | Bundle Dia. in. (mm) | Tensile Strength N (Lbs.) | PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |

EXTRA-HEAVY CROSS SECTION

| DT4EH-L0 | Cable Tie | $\begin{aligned} & 13.5 \\ & (343) \end{aligned}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{aligned} & .059 \\ & (1.5) \end{aligned}$ | $\begin{gathered} .490 \\ (12.4) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DT8EH-Q0 |  | $\begin{aligned} & 27.0 \\ & (686) \end{aligned}$ |  |  |  |
| DTREH-LRO | 50' Reel of Strapping | $\begin{gathered} 600.0 \\ (15,240) \\ \hline \end{gathered}$ |  |  | - |
| DTHEH-Q0 | Bag of 25 Cable <br> Tie Heads | - | - | - | $\begin{gathered} .490 \\ (12.4) \end{gathered}$ |
| DTKEH-0 | DURA-TY ${ }^{m \mathrm{~m}}$ Kit 50 ft . Reel of Strapping | $\begin{gathered} 600.0 \\ (15,240) \end{gathered}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{aligned} & \hline .059 \\ & (1.5) \end{aligned}$ |  |


| .718 | 3.87 <br> $(98)$ |  |  |
| :---: | :---: | :---: | :---: |
| $(18.2)$ | 8.00 <br> $(203)$ | 250 <br> $(1112)$ |  |
|  | - | As <br> Needed |  |
|  | - | - |  |
|  | 718 | - | - |
|  | As <br> Needed | 250 <br> $(1112)$ |  |


| GTH, GS4H, <br> ST2EH <br> or GS4EH | 50 | 1000 | - | - |
| :---: | :---: | :---: | :---: | :---: |
|  | 25 | 500 | - | - |
|  | 25 | 20 | - | - |
|  | 1 | 20 | - | - |

## Panduli ${ }^{\circ}$ <br> Part Number Suffix Codes for all Dome-ToP ${ }^{\circledR}$ Barb Ty and Dura-TY ${ }^{\text {™ }}$ Cable Ties

Part Number System (Example of BT1M-C)

## BT

Part Description:
BT = Barb Ty
BC = Barb Clamp
BF = Barb Flag
BM = Barb Marker
BW = Barb Wing
DT $=$ DURA $-T Y^{\text {m" }}$


Size:
Approximate
Maximum Bundle
Diameter in Inches

Cross Section:
M = Miniature
I = Intermediate
S = Standard
LH = Light-Heavy
EH = Extra-Heavy

Screw Hole Size:
(Clamp Ties Only)
-S4 = \#4 (M2.5)
-S6 = \#6 (M3)
-S8 = \#8 (M4)
-S10 = \#10 (M5)
$-S 25=1 / 4(M 6)$

## - C

Package Size:
Q = 25
$\mathrm{L}=50$
$C=100$
$\mathrm{TL}=250$
$D=500$
$M=1000$
LR = 50' Reel
$0=$ DT Kit

## Color:

See Material/Color chart. Not all ties available in all colors.

## Material/Color Chart

| Material/Color | $\begin{gathered} \text { PANDUIT} \\ \text { Suffix* }^{\star} \end{gathered}$ | Mil Spec Suffix** | Material/Color | $\begin{gathered} \text { PANDUIT }{ }^{\oplus} \\ \text { Suffix* }^{*} \end{gathered}$ | Mil Spec Suffix** |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nylon 6.6 - Natural (See Note) | $\checkmark$ | 9 | Nylon 6.6 - Blue | 6 | 6 |
| Weather Resistant Nylon 6.6 - | 0 | N/A | Nylon 6.6 - Purple | 7 | 7 |
| Black |  |  | Nylon 6.6 - Gray | 8 | 8 |
| Nylon 6.6 - Brown | 1 | 1 | Nylon 6.6 - White | 10 | N/A |
| Nylon 6.6 - Red | 2 | 2 | Nylon 6.6 - Telephone Gray | 14 | N/A |
| Nylon 6.6 - Orange | 3 | 3 | Nylon 6.6 - Black | 20 | N/A |
| Nylon 6.6 - Yellow | 4 | 4 | Heat Stabilized Nylon 6.6 - Black | 30 | N/A |
| Nylon 6.6 - Green | 5 | 5 | Heat Stabilized Nylon 6.6 - Natural | 39 | N/A |

* NOTE: $\boldsymbol{\checkmark}$ designates PANDUIT ${ }^{\oplus}$ standard Natural Nylon 6.6 color/material. No suffix required in part number.
${ }^{* *}$ NOTE: MIL SPEC Color (suffix) per AS33671 (Formerly MS3367) and SAE AS33681 (Formerly MS3368).

| Standard Packaging |  |  | Bulk Packaging |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part <br> Number | Natural Nylon <br> 6.6 | Available Color/ Material (Suffix) | Part <br> Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) |
|  |  |  | BC1M-S4-M | $\checkmark$ | 0 |
|  |  |  | BC2M-S4-M | $\checkmark$ | 0 |
|  |  |  | BC1.5I-S8-M | $\checkmark$ | 0 |
| BC2S-S10-C | $\checkmark$ | 0 | BC2S-S10-D | $\checkmark$ | 0 |
|  |  |  | BC3S-S10-D | $\checkmark$ | 0 |
| BC4S-S10-C | $\checkmark$ | 0 | BC4S-S10-D | $\checkmark$ | 0,30 |
| BC4LH-S25-L | $\checkmark$ | 0 | BC4LH-S25-TL | $\checkmark$ | 0 |
| BF1M-C | $\checkmark$ |  | BF1M-M | $\checkmark$ | 0 |
| BF2M-C | $\checkmark$ |  | BF2M-M | $\checkmark$ | 0 |
| BM1M-C | $\checkmark$ |  | BM1M-M | $\checkmark$ | 0 |
| BM2M-C | $\checkmark$ |  | BM2M-M | $\checkmark$ | 0 |
| BM2S-C | $\checkmark$ |  | BM2S-D | $\checkmark$ | 0 |
| BM4S-C | $\checkmark$ |  | BM4S-D | $\checkmark$ | 0 |
| BT1M-C | $\checkmark$ | 0,30 | BT1M-M | $\checkmark$ | 0, 1, 2, 3, 4, 5, 6, 7, 8, 10, 30, 39 |
| BT1.5M-C | $\checkmark$ | 0 | BT1.5M-M | $\checkmark$ | 0,30 |
| BT2M-C | $\checkmark$ | 0 | BT2M-M | $\checkmark$ | 0, 2, 3, 4, 5, 6, 8, 30 |
| BT4M-C | $\checkmark$ | 0 | BT4M-M | $\checkmark$ | 0 |
| BT1.5I-C | $\checkmark$ | 0 | BT1.5I-M | $\checkmark$ | 0, 1, 2, 3, 4, 5, 6, 7, 8, 10, 30, 39 |
| BT2I-C | $\checkmark$ | 0 | BT2I-M | $\checkmark$ | 0,30 |
| BT3I-C | $\checkmark$ | 0 | BT3I-M | $\checkmark$ | 0,30 |
| BT4I-C | $\checkmark$ | 0 | BT4I-M | $\checkmark$ | 0, 14 |


| Standard Packaging |  |  | Bulk Packaging |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) | Part <br> Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) |
| BT2S-C | $\checkmark$ | 0 | BT2S-M | $\checkmark$ | $\begin{aligned} & 0,1,2,3,4,5,6,7,8,10,20 \\ & 30,39 \end{aligned}$ |
| BT3S-C | $\checkmark$ | 0, 2 | BT3S-M | $\nu$ | 0,30,39 |
| BT4S-C | $\checkmark$ | 0 | BT4S-M | $\checkmark$ | 0, 2, 3, 4, 5, 6, 7, 8, 10, 30, 39 |
| BT2LH-L | $\checkmark$ | 0 | BT2LH-TL | $\checkmark$ | 0 |
| BT3LH-L | $\checkmark$ | 0 | BT3LH-TL | $\checkmark$ | 0 |
| BT4LH-L | $\checkmark$ | 0 | BT4LH-TL | $\checkmark$ | 0,30,39 |
| BT5LH-L | $\checkmark$ | 0 | BT5LH-C | $\checkmark$ | 0 |
| BT6LH-L | $\checkmark$ | 0 | BT6LH-C | $\checkmark$ | 0 |
| BT7LH-L | $\checkmark$ | 0 | BT7LH-C | $\checkmark$ | 0 |
| BT8LH-L | $\checkmark$ | 0 | BT8LH-C | $\checkmark$ | 0 |
| BT9LH-L | $\nu$ | 0 | BT9LH-C | $\checkmark$ | 0 |
|  |  |  | BW1.5I-D | $\checkmark$ |  |
|  |  |  | BW2S-D | $\checkmark$ | 0 |
|  |  |  | B2M2S-D | $\checkmark$ | 0 |
|  |  |  | B3M2S-TL | $\checkmark$ | 0 |
|  |  |  | B4M2S-TL | $\checkmark$ | 0 |
| ${ }^{1}$ DTHEH-Q |  | 0 |  |  |  |
| ${ }^{1}$ DTKEH |  | 0 |  |  |  |
| ${ }^{1}$ DTREH-LR |  | 0 |  |  |  |
| 'DT4EH-L |  | 0 |  |  |  |
| 'DT8EH-Q |  | 0 |  |  |  |

NOTE 1: DURA-TY ${ }^{\text {TM }}$ Weather Resistant Acetal Strap Body and Head.


- Head designed for no protrusion of cut-off tie
- Tie configuration limits exposure to sharp edges to protect adjacent cables and installers arms and hands
- Low profile head reduces overall bundle size
- Locking wedge is fully enclosed to insure consistent strength and lasting performance
- Fully rounded edges on head and strap protect cable insulation/jacket
- Rounded tip and aggressive grip for faster initial threading


|  |  |  |  |  |  | Max. |  |  | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Length A <br> in. (mm) | $\begin{gathered} \text { Width } \\ \text { B } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \\ \hline \end{gathered}$ | Head <br> Height D <br> in. (mm) | Head <br> Width E in. (mm) | Bundle <br> Dia. <br> in. <br> (mm) | Loop <br> Tensile <br> Strength <br> Lbs. (N) | Recommended <br> PANDUIT ${ }^{\circledR}$ <br> Installation Tool Part No. | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |

MIINIATURE CROSS SECTION

| CBR1M-M $\ddagger$ <br> CBR1M-M0 $\ddagger$ | $\begin{gathered} 4.1 \\ (104) \end{gathered}$ | $\begin{aligned} & .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & .038 \\ & (1.0) \end{aligned}$ | $\begin{aligned} & .208 \\ & (5.3) \end{aligned}$ | $\begin{aligned} & .195 \\ & (5.0) \end{aligned}$ | $\begin{aligned} & 1.00 \\ & (25) \end{aligned}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS or PPTS | - | - | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBR1.5M-M $\ddagger$ <br> CBR1.5M-M0 $\ddagger$ | $\begin{gathered} 5.6 \\ (142) \end{gathered}$ |  | $\begin{aligned} & .042 \\ & (1.1) \end{aligned}$ |  | $\begin{aligned} & .209 \\ & (5.3) \end{aligned}$ | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ |  |  | - | - | 1000 | 50000 |
| CBR2M-M $\ddagger$ <br> CBR2M-MO $\ddagger$ | $\begin{gathered} 7.2 \\ (183) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  |  | - | - | 1000 | 25000 |

INTERMEDIATE CROSS SECTION

| CBR1.51-M $\ddagger$ CBR1.51-M0 $\ddagger$ | $\begin{gathered} 5.9 \\ (150) \end{gathered}$ | $\begin{aligned} & .140 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & .040 \\ & (1.0) \end{aligned}$ | $\begin{aligned} & .250 \\ & (6.4) \end{aligned}$ | $\begin{aligned} & .250 \\ & (6.4) \end{aligned}$ | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS or PPTS | - | - | 1000 | 25000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBR3I-M $\ddagger$ <br> CBR3I-M0 $\ddagger$ | $\begin{aligned} & 10.4 \\ & (264) \end{aligned}$ |  | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ |  | $\begin{aligned} & .262 \\ & (6.7) \end{aligned}$ | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | - | - | 1000 | 10000 |
| CBR4I-M $\ddagger$ <br> CBR4I-M0 $\ddagger$ | $\begin{gathered} 13.6 \\ (345) \end{gathered}$ |  |  |  |  | $\begin{gathered} 4.00 \\ (102) \end{gathered}$ |  |  | - | - | 1000 | 10000 |

STANDARD CROSS SECTION

| CBR2S-M $\ddagger$ <br> CBR2S-M0 $\ddagger$ | $\begin{gathered} 7.6 \\ (193) \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{array}{r} .044 \\ (1.1) \end{array}$ | $\begin{aligned} & 290 \\ & .7 .1) \end{aligned}$ | $\begin{aligned} & .332 \\ & (8.4) \end{aligned}$ | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, PTS or PPTS | - | - | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBR3S-M $\ddagger$ <br> CBR3S-M0 $\ddagger$ | $\begin{aligned} & 10.8 \\ & (274) \end{aligned}$ |  | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | - | - | 1000 | 5000 |
| CBR4S-M $\ddagger$ <br> CBR4S-M0 $\ddagger$ | $\begin{gathered} 14.0 \\ (356) \end{gathered}$ |  |  |  |  | $\begin{gathered} 4.00 \\ (102) \end{gathered}$ |  |  | - | - | 1000 | 5000 |

HEAVY-STANDARD CROSS SECTION

| CBR2HS-D $\ddagger$ | 8.0 <br> $(203)$ | .250 <br> $(6.4)$ | .058 <br> $(1.4)$ | .326 <br> $(8.2)$ | .388 <br> $(9.9)$ | 2.00 <br> $(51)$ | 85 <br> $(378)$ | GTH or GS4H | - | - | 500 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBR2HS-D0 $\ddagger$ | 5000 |  |  |  |  |  |  |  |  |  |  |

LIGHT-HEAVY CROSS SECTION

| CBR4LH-TL $\ddagger$ CBR4LH-TLO $\ddagger$ | $\begin{gathered} 14.6 \\ (371) \end{gathered}$ | 00 | . 070 | 00 | 490 | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ | 20 | GTH, GS4 | - | - | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBR6LH-C $\ddagger$ <br> CBR6LH-C0 $\ddagger$ | $\begin{aligned} & 20.9 \\ & (531) \end{aligned}$ | (7.6) | (1.8) | (10.2) | (12.4) | $\begin{gathered} 6.00 \\ (152) \end{gathered}$ | (534) | or PPTEH | - | - | 100 | 2000 |

## PANDUIT ${ }^{\circledR}$ Belt-Ty ${ }^{\text {" }}$ In-Line Cable Ties

## Belt-Ty ${ }^{\text {Tw }}$ In-Line Cable Ties Nylon 6.6

- Head designed for no protrusion of cut-off tie
- Low profile head ( $35 \%$ lower than conventional $90^{\circ}$ entry cable ties)
- Fully rounded edges on head and strap
- Rounded tip and aggressive grip
- Finger grip shaped head
- Curved tip

- Protects adjacent cables and protects workers arms and hands
- Avoids snags and reduces overall bundle size
- No sharp edges in contact with cable insulation
- Easy to grip for assembly
- Positive grip when threading tie
- Material: Nylon 6.6

- Parallel-entry cable ties that thread like a belt (at $180^{\circ}$ ) with the same performance of conventional ( $90^{\circ}$ entry) cable ties
- The Belt-TY ${ }^{\text {Tw }}$ In-Line Cable Tie design reduces the long cut-off danger of an incorrectly applied conventional cable tie


| Part Number | $\begin{aligned} & \text { Length } \\ & \text { A } \\ & \text { in. (mm) } \end{aligned}$ | $\begin{gathered} \text { Width } \\ \text { B } \\ \text { in. (mm) } \end{gathered}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \end{gathered}$ | Head Height D in. (mm) | Head Width E in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop <br> Tensile <br> Strength <br> Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ <br> Installation <br> Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |


| MIINIATURE CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ILT1M-M $\ddagger$ | $\begin{gathered} 4.8 \\ (122) \end{gathered}$ | $\begin{aligned} & .098 \\ & (2.5) \end{aligned}$ | $\begin{aligned} & .044 \\ & (1.1) \end{aligned}$ | $\begin{aligned} & .110 \\ & (2.8) \end{aligned}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & 1.10 \\ & (28) \end{aligned}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | GTS, GS2B, PTS or PPTS | - | - | 1000 | 50,000 |


| INTERMEDIATE CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ILT1.5I-M $\ddagger$ | $\begin{gathered} 5.4 \\ (137) \end{gathered}$ | $\begin{aligned} & .142 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .130 \\ & (3.3) \end{aligned}$ | $\begin{aligned} & .260 \\ & (6.6) \end{aligned}$ | $\begin{aligned} & 1.38 \\ & (35) \end{aligned}$ | $\begin{gathered} 30 \\ (133) \end{gathered}$ | GTS, GS2B, PTS or PPTS | - | - | 1000 | 25,000 |

STANDARD CROSS SECTION

| ILT2S-M $\ddagger$ | $\begin{gathered} 8.3 \\ (211) \end{gathered}$ | $\begin{aligned} & .190 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .140 \\ & (3.6) \end{aligned}$ | $\begin{aligned} & .316 \\ & (8.0) \end{aligned}$ | $\begin{aligned} & 1.88 \\ & (48) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS or PPTS | - | - | 1000 | 10,000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ILT3S-M $\ddagger$ | $\begin{aligned} & 11.5 \\ & (292) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ |  |  | - | - | 1000 | 5000 |
| ILT4S-M $\ddagger$ | $\begin{gathered} 14.7 \\ (373) \end{gathered}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \\ & \hline \end{aligned}$ |  |  | - | - | 1000 | 5000 |

LIGHT-HEAVY CROSS SECTION

| ILT4LH-TL $\ddagger$ | $\begin{aligned} & 14.8 \\ & (376) \end{aligned}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & .250 \\ & (6.4) \end{aligned}$ | $\begin{gathered} .475 \\ (12.1) \end{gathered}$ | $\begin{aligned} & \hline 4.00 \\ & (102) \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | GTH, GS4H orPPTEH | - | - | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ILT6LH-C $\ddagger$ | $\begin{aligned} & 21.2 \\ & (538) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{array}{r} 6.00 \\ (152) \\ \hline \end{array}$ |  |  | - | - | 100 | 500 |

## PANDUIT ${ }^{\text {® }}$ IN－LINE NyIon 6．6 Cable Ties

## IN－LINE Weather Resistant Nylon 6．6 Cable Ties



Colors can be used to install foam padding for playground applications．


UV Black can be used in any outdoor application．
－Wide tie body and high tensile strength are ideal for any application including playground equipment
－For playground installations，the head is inverted and the body is captured between the tie and foam for safety
－Flexible，easy to handle and easily installed without special tools
－Available in 13 UV weather resistant colors for color coordination and UV stability


|  |  |  |  |  |  |  |  |  | Packaging＊ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Descriptio | Length A <br> in．（mm） |  | Thickness C in．（mm） | Height D <br> in．（mm） | Width E in．（mm） | Bundle Dia． in．（mm） | Tensile Strength Lbs．（N） | Std． <br> Pkg． <br> Qty． | Std． <br> Ctn． <br> Oty | Bulk Pkg． <br> Qty．＊ | Bulk Ctn． Qty． |

## Cable Tie Colors

| IT9100－CUV2\＃ | UV Red | $\begin{aligned} & 14.1 \\ & (358) \end{aligned}$ | $\begin{aligned} & .350 \\ & (8.9) \end{aligned}$ | $\begin{aligned} & .065 \\ & (1.7) \end{aligned}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .556 \\ & (14.1) \end{aligned}$ | $\begin{aligned} & 3.94 \\ & (100) \end{aligned}$ | $\begin{gathered} 124 \\ (550) \end{gathered}$ | － | － | 100 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| IT9100－CUV4 $\ddagger$ | UV Yellow |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV4A $\ddagger$ | UV Butterscotch |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV5A $\ddagger$ | UV Green |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV5B $\ddagger$ | UV Hunter Green |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV6 $\ddagger$ | UV Dark Blue |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV6A $\ddagger$ | UV Light Blue |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV6B $\ddagger$ | UV Cobalt Blue |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV7A $\ddagger$ | UV Purple |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV8キ | UV Silver |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV11 $\ddagger$ | UV Teal |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9100－CUV16B $\ddagger$ | UV Pink |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV2 $\ddagger$ | UV Red | $\begin{aligned} & 15.3 \\ & (389) \end{aligned}$ | $\begin{aligned} & .350 \\ & (8.9) \end{aligned}$ | $\begin{gathered} .065 \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .556 \\ & (14.1) \end{aligned}$ | $\begin{aligned} & 4.53 \\ & (115) \end{aligned}$ | $\begin{gathered} 124 \\ (550) \end{gathered}$ | － | － | 100 | 1000 |
| IT9115－CUV4 $\ddagger$ | UV Yellow |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV4A $\ddagger$ | UV Butterscotch |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV5A $\ddagger$ | UV Green |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV5B $\ddagger$ | UV Hunter Green |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV6 $\ddagger$ | UV Dark Blue |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV6A $\ddagger$ | UV Light Blue |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV6B $\ddagger$ | UV Cobalt Blue |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV7A $\ddagger$ | UV Purple |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV8\＃ | UV Silver |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV11 $\ddagger$ | UV Teal |  |  |  |  |  |  |  | － | － | 100 | 1000 |
| IT9115－CUV16B $\ddagger$ | UV Pink |  |  |  |  |  |  |  | － | － | 100 | 1000 |

## Black Cable Ties

| 1T940－C0才 | UV Black | $\begin{gathered} \hline 6.8 \\ (173) \\ \hline \end{gathered}$ | $\text { . } 350$ | $\begin{aligned} & .065 \\ & (1.7) \end{aligned}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .556 \\ & (14.1) \end{aligned}$ | $\begin{aligned} & 1.57 \\ & (40) \\ & \hline \end{aligned}$ | $\begin{gathered} 124 \\ (550) \end{gathered}$ | － | － | 100 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1T965－C0才 | UV Black | $\begin{aligned} & \hline 10.1 \\ & (257) \\ & \hline \end{aligned}$ |  |  |  |  | $\begin{aligned} & \hline 2.58 \\ & (65) \end{aligned}$ |  | － | － | 100 | 1000 |
| 1T9100－C0\＃ | UV Black | $\begin{array}{r} 14.1 \\ (358) \end{array}$ |  |  |  |  | $\begin{aligned} & 3.94 \\ & (100) \end{aligned}$ |  | － | － | 100 | 1000 |
| 1T9115－C0才 | UV Black | $\begin{array}{r} 15.3 \\ (388) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} \hline 4.53 \\ (115) \\ \hline \end{array}$ |  | － | － | 100 | 1000 |
| 1T9150－C0才 | UV Black | $\begin{array}{r} \hline 20.1 \\ (511) \\ \hline \end{array}$ |  | $\begin{array}{r} .075 \\ (1.9) \end{array}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ |  | $\begin{array}{r} \hline 5.91 \\ (150) \\ \hline \end{array}$ |  | － | － | 100 | 1000 |
| 1T9250－C0\＃ | UV Black | $\begin{aligned} & \hline 33.0 \\ & (838) \end{aligned}$ |  |  |  |  | $\begin{aligned} & \hline 9.84 \\ & (250) \end{aligned}$ |  | － | － | 100 | 1000 |

## PANDUIT ${ }^{\circledR}$ Part Number Suffix Code for All Parallel Entry Cable Ties

Part Number System (Example of ILT1M-M)


Part Description:
CBR $=$ Contour-TY ${ }^{\oplus}$ ILT = BELTT-TY"' In-Line Tie $\mathrm{IT}=\mathrm{In}$-Line Tie


Size:
Approximate Maximum Bundle Diameter in Inches

Cross Section:
$\mathrm{M}=$ Miniature
I = Intermediate
S = Standard
HS = Heavy-Standard
LH = Light-Heavy


## Package Size:

C = 100
$\mathrm{TL}=250$
$\mathrm{D}=500$
$M=1000$

Color: See Material/Color chart. Not all ties available in all colors.

## Material/Color Chart

| Material/Color | $\begin{aligned} & \text { PANDUIT }{ }^{\ominus} \\ & \text { Suffix }^{\star} \end{aligned}$ | Mil Spec Suffix** | Material/Color | $\text { PANDUIT }^{\oplus}$ Suffix* | Mil Spec Suffix** |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nylon 6.6 - Natural (See Note) | $\checkmark$ | 9 | Ultraviolet Dark Blue | UV6 | N/A |
| Weather Resistant Nylon 6.6 Black | 0 | N/A | Ultraviolet Light Blue | UV6A | N/A |
|  |  |  | Ultraviolet Cobalt Blue | UV6B | N/A |
| Ultraviolet Red | UV2 | N/A | Ultraviolet Purple | UV7A | N/A |
| Ultraviolet Yellow | UV4 | N/A | Ultraviolet Silver | UV8 | N/A |
| Ultraviolet Butterscotch | UV4A | N/A | Ultraviolet Teal | UV11 | N/A |
| Ultraviolet Green | UV5A | N/A | Ultraviolet Pink | UV16B | N/A |
| Ultraviolet Hunter Green | UV5B | N/A | Ultraviolet Tan | UV18 | N/A |

* NOTE: $\boldsymbol{\checkmark}$ designates PANDUIT ${ }^{\oplus}$ standard Natural Nylon 6.6 color.material. No suffix required in part number.
** NOTE: MIL SPEC Color (suffix) per AS33671 (Formerly MS3367) and SAE AS33681 (Formerly MS3368).

| Standard Packaging |  |  | Bulk Packaging |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) | Part <br> Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) |
|  |  |  | CBR1M-M | $\checkmark$ | 0 |
|  |  |  | CBR1.5M-M | $\checkmark$ | 0 |
|  |  |  | CBR2M-M | $\checkmark$ | 0 |
|  |  |  | CBR1.5I-M | $\checkmark$ | 0 |
|  |  |  | CBR3I-M | $\checkmark$ | 0 |
|  |  |  | CBR4I-M | $\checkmark$ | 0 |
|  |  |  | CBR2S-M | $\checkmark$ | 0,39 |
|  |  |  | CBR3S-M | $\checkmark$ | 0 |
|  |  |  | CBR4S-M | $\checkmark$ | 0 |
|  |  |  | CBR2HS-D | $\checkmark$ | 0 |
|  |  |  | CBR4LH-TL | $\checkmark$ | 0 |
|  |  |  | CBR6LH-C | $\checkmark$ | 0 |
|  |  |  | ILT1M-M | $\checkmark$ | 0 |
|  |  |  | ILT1.5I-M | $\checkmark$ | 0 |
| ILT2S-C | $\checkmark$ | 0 | ILT2S-M | $\checkmark$ | 0 |
| ILT3S-C | $\checkmark$ | 0 | ILT3S-M | $\checkmark$ | 0 |
| ILT4S-C | $\checkmark$ | 0 | ILT4S-M | $\checkmark$ | 0 |
|  |  |  | ILT4LH-TL | $\checkmark$ | 0 |
|  |  |  | ILT6LH-C | $\checkmark$ | 0 |
|  |  |  | IT940-C |  | 0 |
|  |  |  | IT965-C |  | 0 |
|  |  |  | IT9100-C |  | 0, UV2, UV4, UV6, UV6A, UV7A, UV8, UV16B |
|  |  |  | IT9115-C |  | 0, UV2, UV4, UV4A, UV5A, UV5B, UV6, UV6A, UV6B, UV7A, UV8, UV11, UV16B, UV18 |
|  |  |  | IT9150-C |  | 0 |
|  |  |  | IT9250-C |  | 0 |

## PANDUIT ${ }^{\circ}$ <br> TAK-TY ${ }^{\circledR}$ Hook \& Loop Cable Ties

## TAK-TY ${ }^{\oplus}$ Hook \& Loop <br> Cable Ties

- Releasable and reusable hundreds of times
- No risk of over tensioning and damaging high performance cabling
- No installation tool needed
- No waste - excess can be wrapped around bundle
- Cinch ties - Pass hook portion through plastic cinch ring. Pull end of tie against ring to tension. Secure hook portion against loop portion of tie body to fasten
- Loop and Strip ties have hooks on one side and loops on the other, so it adheres to itself; wrap around bundle and secure end of tie on the body
- HLM-15R can be used with ABM3H-A-L, ABM4H-A-L, TM3S8-C, TM3S10-C and TM3S25-C mounts
- Loop and Strip ties (in black and maroon) are UL Listed for use in air handling spaces per NEC section 300-22 (c) and (d) and are UL94V-2 flame rated


HLTP/HLSP Only

| Color Chart |  |  |
| :---: | :---: | :---: |
| Color | Part <br> Number <br> Suffix | Example |
| Black | 0 | HLT2I-X0 |
| Red | 2 | HLT2I-X2 |
| Orange | 3 | HLT2I-X3 |
| Yellow | 4 | HLT2I-X4 |
| Green | 5 | HLT2I-X5 |
| Blue | 6 | HLT2I-X6 |
| Gray | 8 | HLT2I-X8 |
| White | 10 | HLT2I-X10 |
| Maroon | 12 | HLTP2I-X12 |

CINCH TIES - CINCH RING PROVIDES EXTRA STRENGTH AND BUNDLE TIGHTNESS

| Part Number | Length in. (mm) | Width <br> in. (mm) | Thickness in. (mm) | Head Width in. (mm) | Min. Bundle Dia. <br> in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength* Lbs. (N) | Packaging** |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| HLC3S-X0 | $\begin{gathered} 12.0 \\ (305) \\ \hline \end{gathered}$ | $\begin{gathered} .750 \\ (19.1) \end{gathered}$ | $\begin{aligned} & .10 \\ & (2.5) \end{aligned}$ | $\begin{gathered} 1.10 \\ (27.9) \end{gathered}$ | $\begin{aligned} & 2.00 \\ & (51) \\ & \hline \end{aligned}$ | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | 10 | 100 |
| HLC5S-X0 | $\begin{gathered} 18.0 \\ (457) \\ \hline \end{gathered}$ |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \end{aligned}$ | $\begin{aligned} & 5.00 \\ & (127) \\ & \hline \end{aligned}$ |  | 10 | 100 |

LOOP TIES — SLOT ALLOWS FOR PRE-WRAPPING OF BUNDLES

| Part Number | Length in. (mm) | Width in. (mm) | Thickness in. (mm) | Head Width in. (mm) | Min. Bundle Dia. in. (mm) | Max. <br> Bundle Dia. in. (mm) | Min. Loop Tensile Strength* Lbs. (N) | Packaging** |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| HLT21-X0 | $\begin{gathered} 8.0 \\ (203) \\ \hline \end{gathered}$ | 50 | . 10 | 1.00 | $\begin{aligned} & .25 \\ & (6) \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.91 \\ & (49) \\ & \hline \end{aligned}$ | 40 | 10 | 100 |
| HLT31-X0 | $\begin{gathered} 12.0 \\ (305) \\ \hline \end{gathered}$ | (12.7) | (2.5) | (25.4) | $\begin{aligned} & .25 \\ & (6) \\ & \hline \end{aligned}$ | $\begin{aligned} & 3.18 \\ & (81) \end{aligned}$ | (178) | 10 | 100 |

UL LISTED LOOP TIES ** - LARGER

| HLTP2I-X12 | $\begin{gathered} 8.0 \\ (203) \\ \hline \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} .10 \\ (2.5) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{aligned} & .25 \\ & \hline(6) \end{aligned}$ | $\begin{aligned} & 1.91 \\ & (49) \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | 10 | 100 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HLTP31-X12 | $\begin{aligned} & \begin{array}{l} 12.0 \\ (305) \end{array} \end{aligned}$ |  |  |  | $.25$ | $\begin{aligned} & 3.18 \\ & (81) \end{aligned}$ |  | 10 | 100 |

STRIP TIES — ROLLS PERFORATED IN CONVENIENT 6", 12" AND 18" STRIPS

| Part Number | Length in. (mm) | Width in. (mm) | Thickness in. (mm) | HeadWidthin. $(\mathrm{mm})$ | Min. Bundle Dia. in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength* Lbs. (N) | Packaging** |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. |
| HLS1.5S-X0 | $\begin{gathered} \hline 6.0 \\ (152) \\ \hline \end{gathered}$ | $\begin{gathered} .750 \\ (19.1) \end{gathered}$ | $\begin{gathered} .10 \\ (2.5) \end{gathered}$ | - | $\begin{aligned} & .25 \\ & (6) \end{aligned}$ | $\begin{aligned} & \hline 1.50 \\ & (38) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | 10 | 100 |
| HLS3S-X0 | $\begin{array}{r} 12.0 \\ (305) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 3.20 \\ & (81) \\ & \hline \end{aligned}$ |  | 10 | 100 |
| HLS5S-X0 | $\begin{gathered} \hline 18.0 \\ (457) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 5.00 \\ & (127) \\ & \hline \end{aligned}$ |  | 10 | 100 |

UL LISTED STRIP TIES ** — LARGER

| HLSP1.5S-X12 | $\begin{gathered} 6.0 \\ (152) \end{gathered}$ | $\begin{gathered} .750 \\ (19.1) \end{gathered}$ | $\begin{gathered} .10 \\ (2.5) \end{gathered}$ | - | $\begin{aligned} & .25 \\ & (6) \end{aligned}$ | $\begin{aligned} & 1.50 \\ & (38) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | 10 | 100 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HLSP3S-X12 | $\begin{aligned} & 12.0 \\ & (305) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 3.20 \\ & (81) \end{aligned}$ |  | 10 | 100 |
| HLSP5S-X12 | $\begin{array}{r} 18.0 \\ (457) \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 5.00 \\ (127) \\ \hline \end{array}$ |  | 10 | 100 |

15' \& 75' ROLLS - CAN BE CUT TO DESIRED LENGTH, ELIMINATING WASTE

| Part Number | Length in. (mm) | Width <br> in. (mm) | Thickness in. (mm) | Head Width in. (mm) | Min. Bundle Dia. in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength* Lbs. (N) | Packaging** |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| HLM-15R0 | $\begin{aligned} & 180.0 \\ & (4572) \end{aligned}$ | $\begin{array}{r} .33 \\ (8.4) \\ \hline \end{array}$ | $\begin{array}{r} .10 \\ (2.5) \end{array}$ | - | $\begin{aligned} & .25 \\ & (6) \end{aligned}$ | Various | $\begin{gathered} 18 \\ (80) \\ \hline \end{gathered}$ | 1 | 10 |
| HLS-1 5R0 | $\begin{aligned} & 180.0 \\ & (4572) \\ & \hline \end{aligned}$ | $\begin{gathered} .750 \\ (19.1) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{gathered} 50 \\ (222) \end{gathered}$ | 1 | 10 |
| HLS-75R0 | $\begin{array}{\|c\|} \hline 900.0 \\ (22,860) \\ \hline \end{array}$ | $\begin{gathered} .750 \\ (19.1) \\ \hline \end{gathered}$ |  |  |  |  |  | 1 | 10 |

[^2]TaK-Ty ${ }^{\circledR}$ Hook \& Loop Grommet Cinch Ties

- Sturdy brass grommet and washer provides strength and high visibility for mounting in poor lighting conditions
- $1 / 4^{\text {" (M6) diameter mounting hole fits drywall screws up to }}$ \#12 screw size
- Grommet allows for mounting of the cinch ties prior to cable installation for easier handling of cable bundles with tie pre-positioned and anchored
- No sharp edges to damage cables
- Releasable and Reusable


| Part Number | Length in. (mm) | Width in. (mm) | Thickness in. (mm) | Head Width in. (mm) | Max. <br> Bundle Dia. <br> in. (mm) | Min. Loop Tensile Strength Lbs. (N)* | Packaging** |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty.* | Std. Ctn. Qty.** | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |


| GCTC3S-X0 | $\begin{array}{r} 12.0 \\ (305) \\ \hline \end{array}$ | $\begin{gathered} .750 \\ (19.1) \end{gathered}$ | $\begin{gathered} .10 \\ (2.5) \end{gathered}$ | $\begin{gathered} 1.10 \\ (27.9) \end{gathered}$ | $\begin{gathered} 3.00 \\ (76.2) \\ \hline \end{gathered}$ | $\begin{gathered} 30 \\ (133) \\ \hline \end{gathered}$ | 10 | 100 | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GCTC5S-X0 | $\begin{aligned} & 18.0 \\ & (457) \\ & \hline \end{aligned}$ |  |  |  | $\begin{aligned} & \hline 5.00 \\ & (127) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \\ \hline \end{gathered}$ | 10 | 100 | - | - |

GCTE SERIES - GROMMET CINCH TIE END MOUNT (Offsets bundle next to mounting point)

| GCTE2S-X0 | $\begin{array}{r} 10.5 \\ (267) \\ \hline \end{array}$ | $\begin{gathered} .750 \\ (19.1) \end{gathered}$ | $\begin{gathered} .10 \\ (2.5) \end{gathered}$ | $\begin{gathered} 1.10 \\ (27.9) \end{gathered}$ | $\begin{gathered} 2.20 \\ (55.8) \\ \hline \end{gathered}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | 10 | 100 | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GCTE4S-X0 | $\begin{aligned} & 16.5 \\ & (419) \end{aligned}$ |  |  |  | $\begin{gathered} 4.10 \\ (104.1) \end{gathered}$ |  | 10 | 100 | - | - |

*Tensile Strength achieved with 2" overlap.

Part Number System (Example of HLC3S-X0)

## HLC

## Part Description:

HL = Hook \& Loop
HLC $=$ H\&L Cinch Tie
HLT = H\&L Tie
HLTP* $^{*}=$ H\&L Tie Plenum
HLS = H\&L Strip
HLSP* $=$ H\&L Strip Plenum HLM $=$ H\&L Strip Miniature GCT = Grommet Cinch Tie

## 3

Size:
Approximate Maximum Bundle Diameter in Inches


Cross Section:
I = Intermediate
S = Standard


Package Size:
X = 10
$15 \mathrm{R}=15^{\prime}$ Roll $75 R=75^{\prime}$ Roll

## 0

## Color:

See Material/
Color chart. Not all ties available in all colors.

Material/Color Chart

| Color | PANDUIT <br> ® <br> Suffix |
| :--- | :---: |
| Black | 0 |
| Red | 2 |
| Orange | 3 |
| Yellow | 4 |
| Green | 5 |


| Color | PANDUIT <br> ® <br> Suffix |
| :--- | :---: |
| Blue | 6 |
| Gray | 8 |
| White | 10 |
| Maroon | 12 |


| Standard Packaging |  |
| :--- | :--- |
| Part <br> Number | Available Color/ <br> Material (Suffix) |
| GCTC3S-X | 0 |
| GCTC5S-X | 0 |
| GCTE2S-X | 0 |
| GCTE4S-X | 0 |
| HLC3S-X | 0 |
| HLC5S-X | 0 |
| HLM-15R | $0,2,3,4,5,6,8,10$ |
| HLS-15R | $0,2,3,4,5,6,8,10$ |
| HLS-75R | $0,2,3,4,5,6,8,10$ |
| HLS1.5S-X | $0,2,3,4,5,6,8,10$ |
| HLS3S-X | $0,2,3,4,5,6,8,10$ |
| HLS5S-X | $0,2,3,4,5,6,8,10$ |
| HLT2I-X | $0,2,3,4,5,6,8,10$ |
| HLT3I-X | $0,2,3,4,5,6,8,10$ |
| *HLSP1.5S-X | 0,12 |
| *HLSP3S-X | 0,12 |
| *HLSP5S-X | 0,12 |
| *HLTP2I-X | 0,12 |
| *HLTP3I-X | 0,12 |

*HLSP and HLTP are unique Hook \& Loop style ties that are UL Listed for use in air-handling spaces per NEC section 300-22 (c) and (d) and are UL94V-2 flame rated. Available in Black (-X0) and
Maroon (-X12).

## PaNDUIT ${ }^{\ominus}$ Sta-Strap ${ }^{\circledR}$ Cable Ties (SSC/SST Series)

Sta-Strap ${ }^{\oplus}$ Nylon 6.6 Cable Ties


- Sta-Strap ${ }^{\circledR}$ Cable Ties - Use for normal bundling and through-panel applications
- Sta-Strap ${ }^{\circledR}$ Clamp Ties -Only clamp that can be pre-mounted before tying bundle
- Low profile head for use in compact areas
- Two piece design provides low thread force to reduce installer fatigue
- Lower weight than comparable one-piece ties
- Releasable (prior to final tensioning and cut-off) Helpful in assembly


Sta-Strap ${ }^{\oplus}$ Clamp Head Cable Ties - SSC Series

| Part Number | Length <br> A <br> in. (mm) | $\begin{aligned} & \text { Width } \\ & \text { B } \\ & \text { in. (mm) } \end{aligned}$ | Thickness <br> C <br> in. (mm) | Boss Height D <br> in. (mm) | Boss <br> Width <br> E <br> in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Screw Size | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |

STANDARD CROSS SECTION

| SSC2S-S10-C | $\begin{gathered} 7.4 \\ (187) \end{gathered}$ | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{aligned} & .045 \\ & (1.2) \end{aligned}$ | $\begin{aligned} & .310 \\ & (7.9) \end{aligned}$ | $\begin{gathered} .430 \\ (10.9) \end{gathered}$ | $\begin{aligned} & 1.75 \\ & (45) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | $\begin{aligned} & \text { \#10 } \\ & \text { (M5) } \end{aligned}$ | GTS, GS2B, GTH GS4H, PTS or PPTS | 100 | 100 | 1000 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

HEAVY CROSS SECTION

| SSC4H-S25-L | $\begin{array}{r} 15.6 \\ (395) \\ \hline \end{array}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .065 \\ & (1.5) \end{aligned}$ | $\begin{gathered} .460 \\ (11.7) \end{gathered}$ | $\begin{gathered} .53 \\ (13.5) \end{gathered}$ | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | $\begin{gathered} 1 / 4 \\ (\mathrm{M} 6) \end{gathered}$ | GTH, GS4H, GS4EH or PPTEH | 50 | 500 | 500 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Sta-Strap ${ }^{\oplus}$ Cable Ties - SST Series

| Part Number | Length A in. (mm) | Width$B$in. $(\mathrm{mm})$ | $\begin{array}{\|c} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \end{array}$ | Head Height D <br> in. (mm) | Head Width E <br> in. (mm) | Max. Bundle Dia. | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

MINIATURE CROSS SECTION

| SST1M-C | $\begin{gathered} 4.0 \\ (102) \\ \hline \end{gathered}$ | . 095 | $\begin{aligned} & .035 \\ & (.9) \\ & \hline \end{aligned}$ | . 150 | . 175 | $\begin{array}{r} \hline .78 \\ (20) \\ \hline \end{array}$ | 18 | GTS, GS2B, | 100 | 1000 | 1000 | 50000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SST1.5M-C | $\begin{gathered} 5.5 \\ (140) \\ \hline \end{gathered}$ | (2.4) | $\begin{gathered} .037 \\ (.9) \\ \hline \end{gathered}$ | (3.8) | (4.5) | $\begin{aligned} & 1.25 \\ & (32) \\ & \hline \end{aligned}$ | (80) | PTS or PPTS | 100 | 1000 | 1000 | 50000 |
| INTERMEDIATE CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |
| SST1.51-C | $\begin{gathered} 5.3 \\ (137) \\ \hline \end{gathered}$ | $\begin{aligned} & .135 \\ & (3.4) \end{aligned}$ | $\begin{aligned} & .037 \\ & (.9) \\ & \hline \end{aligned}$ | $\begin{aligned} & .210 \\ & (5.3) \end{aligned}$ | $\begin{array}{r} .240 \\ .6 .1) \end{array}$ | $\begin{aligned} & \hline 1.25 \\ & (32) \\ & \hline \end{aligned}$ | $\begin{gathered} 40 \\ (178) \end{gathered}$ | GTS, GS2B, PTS or PPTS | 100 | 1000 | 1000 | 25000 |
| SST2I-C | $\begin{gathered} 8.1 \\ (206) \\ \hline \end{gathered}$ |  | $\begin{aligned} & .040 \\ & (1.0) \end{aligned}$ |  |  | $\begin{aligned} & 2.00 \\ & (50) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 25000 |
| SST3I-C | $\begin{array}{r} 11.0 \\ (279) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| STANDARD CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |
| SST2S-C | $\begin{gathered} \hline 6.7 \\ (172) \\ \hline \end{gathered}$ | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | $\begin{array}{r} .045 \\ (1.2) \\ \hline \end{array}$ | $\begin{aligned} & .250 \\ & (6.4) \end{aligned}$ | $\begin{array}{r} .310 \\ (7.9) \end{array}$ | $\begin{aligned} & 1.75 \\ & (45) \\ & \hline \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2 or STH2 | 100 | 1000 | 1000 | 15000 |
| SST3S-C | $\begin{aligned} & 11.0 \\ & (279) \end{aligned}$ |  | $\begin{array}{r} .048 \\ (1.2) \end{array}$ |  |  | $\begin{aligned} & 3.00 \\ & (76) \\ & \hline \end{aligned}$ |  |  | 100 | 1000 | 1000 | 10000 |
| SST4S-C | $\begin{aligned} & 15.0 \\ & (381) \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & .253 \\ & (6.4) \\ & \hline \end{aligned}$ | $\begin{aligned} & .350 \\ & (8.9) \\ & \hline \end{aligned}$ | $\begin{array}{r} 4.00 \\ (102) \\ \hline \end{array}$ |  |  | 100 | 1000 | 1000 | 5000 |
| HEAVY CROSS SECTION |  |  |  |  |  |  |  |  |  |  |  |  |
| SST4H-D $\ddagger$ | $\begin{gathered} 14.8 \\ (376) \\ \hline \end{gathered}$ | $\begin{aligned} & .300 \\ & (7.6) \end{aligned}$ | $\begin{aligned} & .067 \\ & (1.7) \end{aligned}$ | $\begin{aligned} & .325 \\ & (8.3) \end{aligned}$ | $\begin{gathered} .460 \\ (11.7) \end{gathered}$ | $\begin{aligned} & 4.00 \\ & (102) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | GTH, GS4H, GS4EH or PPTEH | - | - | 500 | 2500 |
| SST8H-D $\ddagger$ | $\begin{gathered} 27.5 \\ (699) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{aligned} & 8.00 \\ & (203) \\ & \hline \end{aligned}$ |  |  | - | - | 500 | 2000 |

## PaNDIUIT ${ }^{\circ}$ Sta-Strap $^{\oplus}$ Cable Ties (SSPM Series)

## Sta-Strap ${ }^{\circledR}$ Chassis/Panel Mount Tie Weather Resistant Heat Stabilized Nylon 6.6



Applications:

- Run cable and hose along truck frame rails
- Secure a bundle under a chassis assembly
- Manage wire harnesses in the cab and sleeper
- Use a through-hole in frame/chassis to mount


## Solution:

PANDUIT ${ }^{\circledR}$ Sta-Strap ${ }^{\oplus}$ Chassis Mount Ties are uniquely designed to secure a bundle directly to a chassis or panel utilizing a through-hole.

## Features:

- Eliminates the need for separate fasteners to reduce costs and decrease installation time
- Remains adjustable and releasable until tie is tensioned and cut-off
- Installs easily with PANDUIT ${ }^{\circledR}$ hand-operated tools
- Engages clearance hole with optional centering pilot (2 designs) to prevent tie from shifting or abrading during vehicle operation

Three Easy Steps...
1


Insert tip end of STA-StRAP ${ }^{\star}$ cable tie through the correct size pre-drilled hole in the panel.

2


Wrap cable tie around the bundle and insert the tip end back through he hole and head of the cable tie.

3


Pull tip end until STA-StRaP ${ }^{\circledR}$ cable tie is snug on bundle. Tension and cut off excess portion with PANDUIT ${ }^{\oplus}$ cable tie installation tool.


OPTICAL CENTERING PILOT



Optional Long Centering Pilot

- Pilot ears protect strap body from clearance hole edges

| Part Number | A <br> Length <br> in. (mm) | BWidthin. $(\mathrm{mm})$ | C <br> $\begin{array}{c}\text { Thickness } \\ \text { in. (mm) }\end{array}$ | D <br> Head Height in. (mm) | Recommended Panel Hole Dia. in. (mm) | Maximum Bundle Diameter in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| WITHOUT PILOT |  |  |  |  |  |  |  |  |  |  |  |  |
| SSPM2.5H-L300 | $\begin{aligned} & \hline 10.1 \\ & (257) \\ & \hline \end{aligned}$ | $\begin{gathered} .30 \\ (7.6) \end{gathered}$ | $\begin{aligned} & .062 \\ & (1.6) \end{aligned}$ | $\begin{aligned} & .248 \\ & (6.3) \end{aligned}$ | $\begin{aligned} & .316 \text { to. } 820 \\ & (8.0 \text { to } 21) \end{aligned}$ | $\begin{aligned} & \hline 2.76 \\ & (70) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | GTH, GS4H,GS4EH, PPTEH,STH2or ST2EH | 50 | 2500 | 250 | 2500 |
| SSPM4H-L300 | $\begin{array}{r} 14.8 \\ (376) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 50 | 2500 | 250 | 2500 |

WITH PILOT

| SSPM2.5HP-L300 | $\begin{array}{r} \hline 10.1 \\ (257) \\ \hline \end{array}$ | $\begin{gathered} .30 \\ (7.6) \end{gathered}$ | $\begin{aligned} & .062 \\ & (1.6) \end{aligned}$ | $\begin{aligned} & .248 \\ & (6.3) \end{aligned}$ | $\begin{aligned} & .440 \text { to. } 820 \\ & \text { (11.2 to } 21 \text { ) } \end{aligned}$ | $\begin{aligned} & \hline 2.76 \\ & (70) \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | $\begin{gathered} \text { GTH, GS4H, } \\ \text { GS4EH, PPTEH, } \\ \text { STH2 } \\ \text { or ST2EH } \end{gathered}$ | 50 | 2500 | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SSPM4HP-L300 | $\begin{array}{r} 14.8 \\ (376) \\ \hline \end{array}$ |  |  |  |  | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ |  |  | 50 | 2500 | 250 | 2500 |

WITH LONG CENTERING PILOT

| SSPM4HLP-TL300 $\ddagger$ | $\begin{aligned} & 14.8 \\ & (376) \end{aligned}$ | $\begin{gathered} .30 \\ (7.6) \end{gathered}$ | $\begin{aligned} & \hline .062 \\ & (1.6) \end{aligned}$ | $\begin{aligned} & .248 \\ & (6.3) \end{aligned}$ | $\begin{aligned} & .440 \text { to. } 820 \\ & (11.2 \text { to } 21) \end{aligned}$ | $\begin{aligned} & 4.00 \\ & (102) \end{aligned}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | ```GTH, GS4H, GS4EH, PPTEH, STH2 or ST2EH``` | - | - | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## PANDUIT ${ }^{\oplus}$ Part Number Suffix Codes for All Sta-Strap ${ }^{\oplus}$ Cable Ties

Part Number System (Example of SST1M-C)

SST = Sta-Strap ${ }^{\circledR}$ Tie SSC $=$ Sta-Strap ${ }^{\circledR}$ Clamp SSPM = Sta-Strap ${ }^{\circledR}$ Panel Mount
SSB = Sta-Strap ${ }^{\circledR}$ Bow-Ty SSM $=$ Sta-Strap ${ }^{\circledR}$ Marker

Size:
Approximate Maximum Bundle
Diameter in Inches


Cross Section:
M = Miniature
I = Intermediate
S = Standard
LH = Light-Heavy
H = Heavy $\mathrm{HH}=$ Heavy Head


Screw Hole Size:
Package Size:

## Color:

See
Material/ Color chart. Not all ties available in all colors.

## Material/Color Chart

| Material/Color | $\begin{gathered} \text { PANDUIT }{ }^{\oplus} \\ \text { Suffix }^{\star} \end{gathered}$ | Mil Spec Suffix** | Material/Color | $\begin{array}{\|c\|} \hline \text { PANDUIT } \\ \text { Suffix* } \end{array}$ | Mil Spec Suffix** |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nylon 6.6 - Natural (see note) | $\checkmark$ | 9 | Heat Stabilized Nylon 6.6 - Black | 30 | N/A |
| Weather Resistant Nylon 6.6 Black | 0 | N/A | Heat Stabilized Weather Resistant Nylon 6.6 - Black | 300 | N/A |

*NOTE: $\downarrow$ designates PANDUIT ${ }^{\star}$ standard Natural Nylon 6.6 color.material. No suffix required in part number.
${ }^{* *}$ NOTE: MIL SPEC Color (suffix) per AS33671 (Formerly MS3367) and SAE AS33681 (Formerly MS3368).

| Standard Packaging |  |  | Bulk Packaging |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part <br> Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) | Part <br> Number | Natural Nylon 6.6 | Available Color/ Material (Suffix) |
| SSPM2.5H-L |  | 300 | SSPM2.5H-TL |  | 300 |
| SSPM2.5HP-L |  | 300 | SSPM2.5HP-TL |  | 300 |
| SSPM4H-L |  | 300 | SSPM4H-TL |  | 300 |
| SSPM4HP-L |  | 300 | SSPM4HP-TL |  | 300 |
|  |  |  | SSPM4HLP-TL |  | 300 |
| SSC2S-S10-C | $\checkmark$ |  | SSC2S-S10-M | $\checkmark$ | 0,30 |
| SSC2S-S6-C | $\checkmark$ |  | SSC2S-S6-M | $\checkmark$ | 0 |
| SSC4S-S10-C | $\checkmark$ |  | SSC4S-S10-M | $\checkmark$ | 0 |
| SSC4H-S25-L | $\checkmark$ |  | SSC4H-S25-D | $\checkmark$ | 0 |
| SSM2S-C | $\checkmark$ |  | SSM2S-D | $\checkmark$ | 0 |
|  |  |  | SSM4S-D | $\checkmark$ |  |
| SST1M-C | $\checkmark$ | 0 | SST1M-M | $\checkmark$ | 0,20,30 |
| SST1.5M-C | $\checkmark$ |  | SST1.5M-M | $\checkmark$ | 0,20,30 |
| SST1.5I-C | $\checkmark$ |  | SST1.51-M | $\checkmark$ | 0 |
| SST2I-C | $\checkmark$ |  | SST2I-M | $\checkmark$ | 0, 20 |
| SST3I-C | $\checkmark$ | 0 | SST31-M | $\checkmark$ | 0 |
| SST4I-C | $\checkmark$ |  | SST4I-M | $\checkmark$ | 0 |
|  |  |  | SST1.5S-M | $\checkmark$ | 0 |
| SST2S-C | $\checkmark$ | 0 | SST2S-M | $\checkmark$ | 0,20,30 |
| SST3S-C | $\checkmark$ | 0 | SST3S-M | $\checkmark$ | 0, 20, 30 |
| SST4S-C | $\checkmark$ | 0 | SST4S-M | $\checkmark$ | 0, 2, 30 |
|  |  |  | SST2H-D | $\checkmark$ | 0 |
| SST4H-L | $\checkmark$ | 0 | SST4H-D | $\checkmark$ | 0,30 |
|  |  |  | SST4HH-D |  | 30 |
| SST8H-L | $\checkmark$ | 0 | SST8H-D | $\checkmark$ | 0, 30 |
| SSB2S-C | $\checkmark$ |  | SSB2S-M | $\checkmark$ | 0,30 |

## PANDUIT® Stud Mounted Heat Stabilized Nylon 6.6 Cable Ties

Base portion pushes onto a threaded stud and the tie portion wraps around the bundle. The wire bundle is centered over the stud.

${ }_{c} \mathrm{~N}_{\text {us }}$
Except PLST4H


| Part Number | Length A in. (mm) | Width$B$in. $(\mathrm{mm})$ | $\begin{aligned} & \text { Thickness } \\ & \text { C } \\ & \text { in. (mm) } \end{aligned}$ | Head Height D <br> in. (mm) | Recommended Stud Size in. (mm) | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |

STANDARD CROSS SECTION

| PLST30SC-D30 $\ddagger$ | $\begin{gathered} 5.74 \\ (146) \end{gathered}$ | $\begin{gathered} .19 \\ (4.8) \end{gathered}$ | $\begin{aligned} & .050 \\ & (1.3) \end{aligned}$ | $\begin{gathered} .41 \\ (10.5) \end{gathered}$ | $\begin{gathered} 10-24 \\ (5) \end{gathered}$ | $\begin{aligned} & 1.18 \\ & (30) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B GTH, GS4H, PTS, PPTS, STS2 or STH2 | - | - | 500 | 5000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLST50SC-D30 $\ddagger$ | $\begin{aligned} & 8.14 \\ & (207) \end{aligned}$ |  |  |  |  | $\begin{aligned} & 1.97 \\ & (50) \end{aligned}$ |  |  | - | - | 500 | 5000 |

HEAVY CROSS SECTION

| PLST4HS25-TL300 $\ddagger$ | 15.3 <br> $(389)$ | .300 <br> $(7.6)$ | .075 <br> $(1.9)$ | .265 <br> $(6.7)$ | $1 / 4-20$ <br> $(6)$ | 4.00 <br> $(102.1)$ | 120 <br> $(534)$ | GTH, GS4H, <br> GS4EH or <br> PPTEH | - | - | 250 | 2500 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Ladder Style Stud <br> Mounted Cable Tie Heat Stabilized Nylon 6.6



The ties can be removed from the stud by turning counterclockwise. Adjustable and releasable.


PANDUIT ${ }^{\circledR}$ Multiple Loop Cable Ties Nylon 6.6


Except PLB4H-0

Applications:

- Underhood hose and harness routing
- Areas where bundles must be secured parallel to each other or another element


## Solution

Looking for a labor saving alternative to cushioned clamps when securing hoses and wire bundles? PANDUIT ${ }^{\circledR}$ Multiple Loop Cable Ties are the perfect solution.

## Features and Benefits:

- Offers multiple loop capability
- Prevents bundle damage with a wire strap body that spreads the clamping forces
- Provides high tensile strength to route bundles securely
- Installs easily by hand - use PANDUIT ${ }^{\circledast}$ tooling for repeatable tension and cut-off
- Reduces part number inventory with a single product to cover multiple bundle sizes


|  |  |  |  |  |  |  |  |  |  | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Numbe | Combined Bundle dia. D1 \& D2 in. (mm) | Length <br> A <br> in. (mm) | Width $B$ in. $(\mathrm{mm})$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \end{gathered}$ |  |  |  | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Std. <br> Pkg. Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |

STANDARD CROSS SECTION

| PLB2S-C | $\begin{gathered} 1.8 \\ (46) \\ \hline \end{gathered}$ | $\begin{gathered} 7.6 \\ (193) \\ \hline \end{gathered}$ | $\begin{aligned} & .19 \\ & (4.8) \end{aligned}$ | $\begin{aligned} & .052 \\ & (1.3) \end{aligned}$ | $\begin{aligned} & .220 \\ & (5.6) \end{aligned}$ | $\begin{array}{r} .320 \\ (8.1) \\ \hline \end{array}$ | $\begin{gathered} 465 \\ (11.8) \end{gathered}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B. <br> GTH, GS4H, <br> PTS, PPTS, <br> STS2 or STH2 | 100 | 1000 | 1000 | 10000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLB3S-C | $\begin{aligned} & 3.0 \\ & (76) \\ & \hline \end{aligned}$ | $\begin{array}{r} 11.8 \\ (300) \\ \hline \end{array}$ |  |  |  | $\begin{aligned} & .337 \\ & (8.6) \end{aligned}$ |  |  |  | 100 | 1000 | 1000 | 10000 |
| PLB4S-C | $\begin{gathered} 4.1 \\ (104) \\ \hline \end{gathered}$ | $\begin{array}{r} 14.8 \\ (376) \\ \hline \end{array}$ |  |  |  |  |  |  |  | 100 | 1000 | 1000 | 5000 |

HEAVY CROSS SECTION

| PLB4H-TL\# | $\begin{aligned} & 3.6 \\ & (91) \end{aligned}$ | $\begin{aligned} & 14.7 \\ & (373) \end{aligned}$ | $\begin{array}{r} .300 \\ (7.6) \end{array}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{aligned} & .322 \\ & (8.2) \end{aligned}$ | $\begin{gathered} .490 \\ (12.4) \end{gathered}$ | $\begin{gathered} 1.1 \\ (27.9) \end{gathered}$ | $\begin{gathered} 120 \\ (534) \end{gathered}$ | GTH, GS4H, GS4EH, or PPTEH | - | - | 250 | 2500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLB4H-TLO $\ddagger$ |  |  |  |  |  |  |  |  |  | - | - | 250 | 2500 |



## PANDUIT ${ }^{\circledR}$ Multiple Loop Cable Ties -

 Weather Resistant Nylon 6.6

|  | Max. Combined Bundle Dia. D1, D2 \& D3 in. (mm) | $\begin{aligned} & \text { Length } \\ & \text { A } \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ | $\begin{array}{\|c} \hline \text { Width } \\ \text { B } \\ \text { in. (mm) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Thickness } \\ \text { C } \\ \text { in. }(\mathrm{mm}) \end{array}$ | Head Height D <br> in. (mm) | Head Width E in. (mm) | Head Length F in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\circledR}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number |  |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |

EXTRA-HEAVY CROSS SECTION

| PL3B5EH-C0才 | $\begin{gathered} 5.0 \\ (127) \end{gathered}$ | $\begin{gathered} 20.0 \\ (508) \end{gathered}$ | $\begin{gathered} .500 \\ (12.7) \end{gathered}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{gathered} .400 \\ (10.2) \end{gathered}$ | $\begin{gathered} .800 \\ (20.3) \end{gathered}$ | $\begin{gathered} 1.8 \\ (45.7) \end{gathered}$ | $\begin{gathered} 125 \\ (556) \end{gathered}$ | GS4EH or PPTEH | - | - | 100 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Double Hose Clamp Weather Resistant Nylon 6.6



The Double Hose Clamp can be used on gasoline, hydraulic or pneumatic hoses. It holds each hose individually to prevent abrasion and holds them together to prevent twisting.


| Part Number | Length <br> A <br> in. (mm) | $\begin{array}{\|c\|} \hline \text { Width } \\ \text { B } \\ \text { in. }(\mathrm{mm}) \\ \hline \end{array}$ | $\begin{gathered} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \\ \hline \end{gathered}$ | Head Height D <br> in. (mm) | Head Width E <br> in. (mm) | Loop Diameters |  | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Fixed Loop in. (mm) | Adjustable Loop in. (mm) |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| DHC1.12x1.75-D0 | $\begin{array}{r} \hline 11.0 \\ (279) \\ \hline \end{array}$ | $\begin{gathered} \hline .28 \\ (7.1) \\ \hline \end{gathered}$ | $\begin{array}{r} \hline .050 \\ (1.3) \\ \hline \end{array}$ | $\begin{gathered} \hline .31 \\ (7.9) \\ \hline \end{gathered}$ | $\begin{gathered} .44 \\ (11.2) \\ \hline \end{gathered}$ | $\begin{gathered} 1.12 \\ (28.4) \\ \hline \end{gathered}$ | $\begin{aligned} & 1.0 \text { to } 1.75 \\ & (25 \text { to } 44) \end{aligned}$ | $\begin{gathered} 100 \\ (445) \\ \hline \end{gathered}$ | GTH, GS4H, STH2 or ST2EH | - | - | 500 | 2500 |



1. Wrap clamp around hose.

2. Position second hose in clamp.

3. Loop tail around second hose and thread tail through both spacer heads.

4. Tension and cut off with PANDUIT ${ }^{\text {® }}$ tool.

Polyethylene
Cable Marker Strap


For identifying telephone and fiber optic cable. Replaces costly and cumbersome lead marking tags. Lightweight and easy-to-install. Can be used as wrap-around or "flag" marker. Can also be used in underground identification applications. Custom hot stamping is available (see page 52).


Unique design allows strap to be used as:

|  |  | Marking Area in. (mm,) | Max. Bundle Dia. in. (mm) | Recommended PANDUIT ${ }^{\circledR}$ <br> Installation <br> Tool Part No. | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Color |  |  |  | Std. Pkg. Qty. | Std. <br> Ctn. <br> Qty. |
| STANDARD CROSS SECTION |  |  |  |  |  |  |
| CM4S-L2 | Red | $\begin{gathered} 1.50 \times 2.62 \\ (38.1 \times 66.5) \end{gathered}$ | $\begin{gathered} 4.38 \\ (111) \end{gathered}$ | Hand Installed Only | 50 | 500 |
| CM4S-L8 | Gray |  |  |  | 50 | 500 |



WRAP-AROUND MARKER
(Min. Dia.: 1.27")

"FLAG" MARKER (Min. Dia.: 25")

Part Number System (Example of PLST4HS25-TL)

## PLST

Part Description:
CM4S = Cable Marker Strap
DHC = Double Hose Clamp
PLST = Lock. Stud Mounted
PLB = Locking Bow Tie
PRST = Releas. Stud Mounted (Ladder Style)


Size:
Approximate
Maximum Bundle
Diameter in Inches


Cross Section:
S = Standard
H = Heavy
EH = Extra-Heavy


Stud Size:

## Package Size:

$$
-S 25=1 / 4^{\prime \prime}(M 6)
$$

-SC = .20" (5mm)

L = 50
$C=100$
$\mathrm{TL}=250$
$D=500$

Color:
See Material/
Color chart. Not all ties available in all colors.

## Material/Color Chart

| Material/Color | $\begin{array}{\|l\|l} \text { PANDUIT } \\ \text { Suffix* } \end{array}$ | Mil Spec Suffix** | Material/Color | $\begin{array}{\|l\|l} \text { PANDUIT } \\ \text { Suffix* } \end{array}$ | Mil Spec Suffix** |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Natural Nylon 6.6 (See Note) | $\checkmark$ | 9 | Nylon 6.6 - Gray | 8 | 8 |
| Weather Resistant Nylon 6.6 | 0 | N/A | Heat Stabilized Black Nylon 6.6 | 30 | N/A |
| Nylon 6.6-Red | 2 | 2 | Heat Stabilized Weather Resistant Nylon 6.6 | 300 | N/A |

*NOTE: $\boldsymbol{V}$ designates $P A N D U I T{ }^{\oplus}$ standard Natural Nylon 6.6 color/material. No suffix required in part number.
**NOTE: MIL SPEC Color (suffix) per AS33671 (Formerly MS3367) and SAE AS33681 (Formerly MS3368),

| Standard Packaging |  |  | Bulk Packaging |  |  |
| :--- | :---: | :--- | :--- | :---: | :--- |
| Part <br> Number | Natural <br> Nylon 6.6 | Available Color/ <br> Material (Suffix) | Part <br> Number | Natural <br> Nylon 6.6 | Available Color/ <br> Material (Suffix) |
| CM4S-L | 2,8 |  |  |  |  |
|  |  |  | DHC1.12X1.75-D |  | 0 |
| PLB2S-C | $\boldsymbol{\nu}$ | 0 | PLB2S-M | $\boldsymbol{\nu}$ | 0,30 |
| PLB3S-C | $\boldsymbol{\nu}$ | 0 | PLB3S-M | $\boldsymbol{V}$ | 0,30 |
| PLB4S-C | $\boldsymbol{\nu}$ |  | PLB4S-M | $\boldsymbol{\checkmark}$ | 0,30 |
|  |  |  | PLB4H-TL | $\boldsymbol{V}$ | 0,30 |
|  |  |  | PL3B5EH-C |  | 0 |
|  |  |  | PLST4HS25-TL |  | 300 |
|  |  |  | PLST30SC-D |  | 30 |
|  |  |  | PRST40SC-D |  | 30 |

## PANDUIT ${ }^{\ominus}$

## Aerospace and Military Standard cross reference to PANDUIT ${ }^{\circledR}$ part numbers

The PANDUIT ${ }^{\circledR}$ Cable Ties and Marker Ties listed in the table below meet all the testing requirements of Aerospace Standard SAE-AS23190A (formerly MIL-S-23190E) and the dimensional requirements of Aerospace Standards SAE-AS33671 (formerly MS3367) and SAE-AS33681 (formerly MS3368).

| Cable Ties |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Current MIL Std. Part Number* | PAN-TY ${ }^{\text {® }}$ Cable Tie Part Number | Dome-Top ${ }^{\circledR}$ Barb Ty Cable Tie Part Number | Sta-Strap ${ }^{\circledR}$ Cable Tie Part Number | BeLt-Ty ${ }^{\text {mil }}$ <br> In-Line Cable Tie Part Number |
| MS3367-1-* | PLT2S | BT2S | SST2S | - |
| MS3367-2-* | PLT4S | BT4S | SST4S | - |
| MS3367-3-* | PLT4H | BT4LH | SST4H | - |
| MS3367-4-* | PLT.7M | - | - | - |
| MS3367-4-* | PLT1M | BT1M | SST1M | - |
| MS3367-5-* | PLT1.51 | BT1.5I | SST1.51 | - |
| MS3367-6-* | PLT8LH | BT8LH | SST8H | - |
| MS3367-6-* | - | BT9LH | - | - |
| MS3367-7-* | PLT3S | BT3S | SST3S | - |
| MS3367-23-* | - | - |  | ILT2S |
| MS3367-24-* | - | - | - | ILT4S |
| MS3367-25-* | - | - | - | ILT4LH |
| MS3367-26-* | - | - | - | ILT1M |
| MS3367-27-* | - | - | - | ILT1.5I |
| MS3367-29-* | - | - | - | ILT3S |


| Marker Ties |  |  |
| :--- | :--- | :--- |
| Current MIL Std. | PAN-TY <br> Cable Tie <br> Part Number* | DoME-ToP <br> ®art Number <br> Barb Ty Cable Tie <br> Part Number |
| MS3368-1-*A | PLM2S | BM2S |
| MS3368-2-*A | PLM4S | BM4S |
| MS3368-3-*C | PL2M2S | B2M2S |
| MS3368-4-*D | PL3M2S | B3M2S |
| MS3368-5-*E | PLM1M | BM1M |

The PANDUIT ${ }^{\oplus}$ Installation Tools listed in the table below meet all the testing requirements of MIL-T-81306 and the dimensional requirements of MS90387.

| Installation Tools |  |
| :--- | :--- |
| Current MIL Std. | Tool <br> Part Number* |
| Part Number |  |$|$| MS90387-1 | GTS, GS2B |
| :--- | :--- |
| MS90387-2 | GS4H |
| MS90387-3 | GS4MT |

## PANDUIT ${ }^{\oplus}$ Custom Hot Stamping Program



## A custom program to mark nylon cable ties, marker ties and marker plates to suit your application requirements...

Cable Tie Cross Sections INTERMEDIATE (Locking)<br>STANDARD<br>(Locking and Releasable)<br>LIGHT-HEAVY AND HEAVY (Locking and Releasable)<br>EXTRA-HEAVY (Locking and Releasable)<br><br>$\qquad$<br>$\qquad$ )

## Marker Tie Cross Sections

MINIATURE
(Locking)
STANDARD
(Locking)

- Economical
- Convenient
- $1 / 8^{\prime \prime}$ ( 3 mm ), $3 / 16^{\prime \prime}\left(4.8 \mathrm{~mm}\right.$ ), $5 / 64^{\prime \prime}(2 \mathrm{~mm})$ and 7/64" (2.8mm) characters are available
- Standard Type Style: News Gothic
- Character sizes can be mixed from line-to-line
- Alphanumeric and sequential numbering for serialization are available
- Sequential numbering available in $3 / 32^{\prime \prime}$ ( 2.4 mm ), $9 / 64^{\prime \prime}$ ( 3.6 mm ), and $1 / 8^{\prime \prime}$ ( 3 mm ) characters
- Seven colors of hot stamping to make your message stand out - Black, Blue, Green, Red, Yellow, Orange and White
- Special logos, type styles and sizes can be provided (when camera ready artwork is supplied)
- Minimum order: 5,000 pieces per part number and message


## PANDUIT ${ }^{\circledR}$ PAN-Pouch ${ }^{\text {TM }}$ Telephone Cable Identification Kit



The Pan-Pouch ${ }^{\text {tw }}$ system provides a fast, convenient method of identifying binder groups on both sides of a splice in PIC cable. It consists of striped $P A N-T Y^{\circledR}$ Cable Ties in 25 color combinations which match the universally accepted Even-Count Color Code. In addition, solid color ties are available for identification of "Super Groups" in cable containing more than 600 pairs. Cable ties have maximum bundle diameter of .82" (21mm). Each 50 pc. package fits into PAN-POUCH ${ }^{\text {TM }}$ over Pocket Pouch.


Nylon 6.6 Cable Ties
${ }_{c} \mathrm{D}_{\text {us }}$

| Part Number | Cable Tie Color | Color <br> Stripe | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. |
| PLT1M-L6-10 | Blue |  | 50 | 1000 |
| PLT1M-L3-10 | Orange |  | 50 | 1000 |
| PLT1M-L5-10 | Green | White | 50 | 1000 |
| PLT1M-L1-10 | Brown |  | 50 | 1000 |
| PLT1M-L8-10 | Slate |  | 50 | 1000 |
| PLT1M-L6-2 | Blue |  | 50 | 1000 |
| PLT1M-L3-2 | Orange |  | 50 | 1000 |
| PLT1M-L5-2 | Green | Red | 50 | 1000 |
| PLT1M-L1-2 | Brown |  | 50 | 1000 |
| PLT1M-L8-2 | Slate |  | 50 | 1000 |
| PLT1M-L6-0 | Blue |  | 50 | 1000 |
| PLT1M-L3-0 | Orange |  | 50 | 1000 |
| PLT1M-L5-0 | Green | Black | 50 | 1000 |
| PLT1M-L1-0 | Brown |  | 50 | 1000 |
| PLT1M-L8-0 | Slate |  | 50 | 1000 |

Cable ties in other solid colors (sold in 100 pc . packages) see pages 24-26.

|  |  |  | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: |
| Part Number | Cable Tie Color | Color Stripe | Std. Pkg. Qty. | Std. Ctn. Qty. |
| PLT1M-L6-4 | Blue |  | 50 | 1000 |
| PLT1M-L3-4 | Orange |  | 50 | 1000 |
| PLT1M-L5-4 | Green | Yellow | 50 | 1000 |
| PLT1M-L1-4 | Brown |  | 50 | 1000 |
| PLT1M-L8-4 | Slate |  | 50 | 1000 |
| PLT1M-L6-7 | Blue |  | 50 | 1000 |
| PLT1M-L3-7 | Orange |  | 50 | 1000 |
| PLT1M-L5-7 | Green | Violet | 50 | 1000 |
| PLT1M-L1-7 | Brown |  | 50 | 1000 |
| PLT1M-L8-7 | Slate ${ }^{\text {e }}$ |  | 50 | 1000 |
| PLT1M-L2 | Red |  | 50 | 1000 |
| PLT1M-L0 | Black• | - | 50 | 1000 |
| PLT1M-L4 | Yellow• |  | 50 | 1000 |
| PLT1M-L6 | Blue ${ }^{\text {e }}$ |  | 50 | 1000 |
| PLT1M-L3 | Orange• |  | 50 | 1000 |
| PLT1M-L5 | Green• | - | 50 | 1000 |
| PLT1M-L1 | Brown• |  | 50 | 1000 |
| PLT1M-L8 | Slate ${ }^{\text {e }}$ |  | 50 | 1000 |

${ }^{\bullet}$ Not included in filled $P A N-P O U C H^{\text {m" }}$


## Pouches

Pan-Pouch "" is $101 / 2^{\prime \prime} \times 38$ " ( $267 \mathrm{~mm} \times 965 \mathrm{~mm}$ ) made of 2 ply laminated black nylon/ vinyl and folds to $101 / 2^{\prime \prime} \times 6^{\prime \prime}$ ( $266 \mathrm{~m} \times 152 \mathrm{~mm}$ ) for easy storage. The pouch can be easily hung from cable by using Hook \& Loop fasteners.

| Part Number | Description | Pouch Material | Packaging* |
| :---: | :---: | :---: | :---: |
|  |  |  | Std. <br> Pkg. Qty. |
| PPC25x50F | PAN-POUCH ${ }^{\text {T" }}$ filled with 1250 cable ties. 50 each of all 24 striped ties plus solid red. | 2 ply Laminated Black Nylon/ | 1 |
| PPC25x50 | Empty PAN-POUCH ${ }^{\text {tw }}$ | Vinyl | 1 |
| PP5x50F | Pocket Pouch filled with 250 cable ties. 50 each: blue, orange, green, brown and slate all with white stripe. | Vinyl | 1 |

Pocket Pouch holds
five ( 50 pc .) packages.

Cable Tie Kits

Cable Tie Kits in Plastic Boxes -KP-506A/KP-506A-0 Cable Ties and Accessories Kit


## KP-509 Designer's Kit



| Part Number | Description | Std. <br> Pkg. <br> Qty.* |
| :---: | :---: | :---: |
| KP-506A | Contains natural nylon ties for indoor use: <br> (100) PLT1M-C Cable Ties <br> (100) PLT1.5I-C Cable Ties <br> (100) PLT2S-C Cable Ties <br> (50) ABM2S-A Mounts <br> (1) Plastic Kit Box | 1 |
| KP-506A-0 | Contains weather resistant cable ties and mounts for outdoor use: <br> (100) PLT1M-C0 Black Weather Resistant Cable Ties <br> (100) PLT1.5I-C0 Black Weather Resistant Cable Ties <br> (100) PLT2S-C0 Black Weather Resistant Cable Ties <br> (50) ABM2S-AT-0 Black Weather Resistant Mounts <br> (1) Plastic Kit Box | 1 |
| KP-509 | A special collection of cable ties and wiring accessories for prototyping and new product development. <br> Contains (over 600 pieces): <br> Including $\mathrm{PAN}^{-T Y}{ }^{\circledR}$ Cable Ties (in different styles, sizes, colors and materials); <br> 25 different cable tie mounts; 30 different wiring accessories; <br> (1) Plastic Kit Box | 1 |
| KB-550 | Assortment Pack contains natural and weather resistant $P A N-T{ }^{\circledR}$ nylon cable ties: <br> (15) PLT1M Cable Ties <br> (10) PLT1M Black Weather Resistant Cable Ties <br> (15) PLT1.5I Cable Ties <br> (10) PLT1.5I Black Weather Resistant Cable Ties <br> (15) PLT2S Cable Ties <br> (10) PLT2S Black Weather Resistant Cable Ties <br> (15) PLT3S Cable Ties <br> (10) PLT3S Black Weather Resistant Cable Ties | 1 |
| KB-551 | Assortment Pack contains natural and weather resistant DOME-TOP ${ }^{\circledR}$ Barb Ty nylon cable ties: <br> (15) BT1M Cable Ties <br> (10) BT1M Black Weather Resistant Cable Ties <br> (15) BT1.5I Cable Ties <br> (10) BT1.5I Black Weather Resistant Cable Ties <br> (15) BT2S Cable Ties <br> (10) BT2S Black Weather Resistant Cable Ties <br> (15) BT3S Cable Ties <br> (10) BT3S Black Weather Resistant Cable Ties | 1 |
| K-504 | Contains cable ties, adhesive backed mounts and cable tie installation tool: <br> (100) PLT1M-C Cable Ties <br> (100) PLT1.5I-C Cable Ties <br> (100) PLT2S-C Cable Ties <br> (100) PLC2S-S10-C Clamp Ties <br> (100) TM2S8-C Mounts <br> (100) ABM2S-A-C Mounts <br> (1) STS2 Tool <br> (1) Steel Kit Box | 1 |
| SR2 | 2-Drawer Slide Rack to hold K-504 Kit or K-1100 Series Terminal Kits. See PANDUIT ${ }^{\circledR}$ Terminal Catalog, SA101N21B-NL. | 1 |
| K-205 | Contains 300 cable ties, 600 terminals and 2 installation tools: <br> (100) PLT1M-C Cable Ties <br> (100) PLT1.5I-C Cable Ties <br> (100) PLT2S-C Cable Ties <br> (1) GTS Cable Tie Installation Tool <br> (100) PV18-6LF-C Terminals <br> (100) PV14-8LF-C Terminals <br> (100) PV14-10LF-C Terminals <br> (50) PV10-10LF-L Terminals <br> (100) BSV18X-C Splices <br> (100) BSV14X-C Splices <br> (50) BSV10X-L Splices <br> (1) CT-100 Crimping Tool <br> (1) Steel Kit Box | 1 |

Cable Tie Kits in Steel Boxes -K-504 Cable Ties and Accessories Kit


## K-205 Cable Ties and

Terminal Kit


## Cable Tie Installation Tools

The PANDUIT ${ }^{\circledR}$ Selection. . . PANDUIT ${ }^{\circledR}$ offers the greatest selection of job-matched tools:


Tool Controlled Tension and Cutoff Tools


Operator Controlled Tension and Cutoff Tools


Pneumatic Tool Controlled Tension and Cutoff Tools


PAT1M/PAT1.5M Automatic Cable Tie Installation Systems

Choosing the right tool increases productivity. . .
Whatever the need; Original Equipment Manufacturer (high, medium, low volume), maintenance/repair or construction; PANDUIT ${ }^{\circledR}$ has the tool to help lower your total installed cost. The following chart can be used as a guide for tool selection:

| Tool | Cable Tie Cross Section | Cable Tie Usage |  | Operation | Typical Application(s) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Per Minute | Per Year |  |  |
| GTS | SM, M, I or S | 4-6 | $\begin{aligned} & \text { Under } \\ & 50,000 \end{aligned}$ | Hand | Low to Medium Volume OEM tie usage, maintenance/ repair or construction |
| GS2B | M, I, or S |  |  |  |  |
| GTH | $\begin{aligned} & \mathrm{S}, \mathrm{HS}, \mathrm{LH} \\ & \text { or H } \end{aligned}$ |  |  |  |  |
| GS4H |  |  |  |  |  |
| GS4H/B | S, HS, LH or H |  |  |  |  |
| GS4H121 W | S, HS, LH or H |  |  |  |  |
| GS4EH | LH, H or EH |  |  |  |  |
| STS2 | $\begin{aligned} & \mathrm{M}, \mathrm{I} \\ & \text { or S } \end{aligned}$ | 1-4 | $\begin{aligned} & \text { Under } \\ & 10,000 \end{aligned}$ | Hand | Maintenance/repair or construction |
| STH2 | $\begin{aligned} & \mathrm{S}, \mathrm{LH} \\ & \text { or H } \end{aligned}$ |  |  |  |  |
| ST2EH | LH, H or EH |  |  |  |  |
| STHV | LH or H |  |  |  |  |
| PTS | SM, M, I or S | 5-8 | $\begin{gathered} \text { Up To } \\ 250,000 \end{gathered}$ | Pneumatic | Medium to High Volume OEM tie usage where a variety of tie sizes are needed. |
| PPTS | $\mathrm{M}, \mathrm{I}$, or S |  |  |  |  |
| PPTEH | $\begin{aligned} & \mathrm{LH}, \mathrm{H} \\ & \text { or EH } \end{aligned}$ |  |  |  |  |
| PAT1M/PAT1.5M <br> Systems (Automatic) | M | 30-40 | $\begin{gathered} 250,000 \\ \text { and above } \end{gathered}$ | Pneumatic/ Electric | High Volume OEM tie usage |

## Hand-Operated Tools - <br> Tool-Controlled Tension and Cut-Off



The most preferred hand-operated cable tie tools in the industry. These tools are versatile and can be used for production, maintenance or construction applications. These tools will tension and cut off excess tie material flush to the head by squeezing trigger handle.

## For PANDUIT ${ }^{\circledR}$ Cable Ties up to $1 / 2^{\prime \prime}$ ( 12.7 mm ) wide

- Lightweight and balanced
- Requires no special maintenance
- Easy to change tension adjustment and easy to operate
- Proven features to help lower installed costs; a combination of design, operating and construction features provide a long service life
- Replacement blades available

|  | Part Number | Description | Std. <br> Pkg. <br> Qty.* |
| :---: | :---: | :---: | :---: |
|  | GTS | Installs PANDUIT® Subminiature, Miniature, Intermediate and Standard cross section cable ties. Qualified Product Listed per Mil. Std. MS90387-1 and Mil. Spec. MIL-T-81306A. Plastic molded housing. Ergonomic design. <br> Color Identification: <br> Trigger Handle: Black <br> Selector Knob: Black <br> Weight: 8.8 oz. (249g) | 1 |
|  | GS2B | Installs PANDUIT ${ }^{\oplus}$ Miniature, Intermediate and Standard cross section cable ties. Qualified Product Listed per Mil. Std. MS90387-1 and Mil. Spec. MIL-T-81306A. <br> Color Identification: <br> Trigger Handle: Black <br> Selector Knob: Black <br> Weight: 11.5 oz . $(327 \mathrm{~g})$ | 1 |
|  | GTH | Installs PANDUIT ${ }^{\oplus}$ Standard, Heavy-Standard, Light-Heavy and Heavy cross section cable ties. Plastic molded housing. Ergonomic design. <br> Color Identification: <br> Trigger Handle: Red <br> Selector Knob: Red <br> Weight: 11.2 oz . (318g) | 1 |
|  | GS4H | Installs PANDUIT ${ }^{\oplus}$ Standard, Heavy-Standard, Light-Heavy and Heavy cross section cable ties. Durable powder coat finish. Qualified Product Listed per Mil. Std. MS90387-2 and Mil. Spec. MIL-T-81306A. <br> Color Identification: <br> Trigger Handle: Red <br> Selector Knob: Red <br> Weight: $16 \mathrm{oz} .(454 \mathrm{~g})$ | 1 |
|  | GS4H/B | Installs PANDUIT ${ }^{\oplus}$ Standard, Heavy-Standard, Light-Heavy and Heavy cross section cable ties. Durable powder coat finish. High tension, factory set, non-adjustable. <br> Color Identification: <br> Trigger Handle: Blue <br> Weight: $16 \mathrm{oz} .(454 \mathrm{~g})$ | 1 |
|  | GS4H121 W | Installs PANDUIT ${ }^{\oplus}$ Standard, Heavy-Standard, Light-Heavy and Heavy cross section cable ties. This tool provides greater tension, especially on 175 lb . strength ties, which results in tighter bundles. Durable powder coat finish. <br> Color Identification: <br> Trigger Handle: Green <br> Selector Knob: Green <br> Weight: $16 \mathrm{oz} .(454 \mathrm{~g})$ | 1 |
|  | GS4EH | Installs PANDUIT ${ }^{\oplus}$ Light-Heavy, Heavy and Extra-Heavy cross section cable ties. Durable powder coat finish. <br> Color Identification: <br> Trigger Handle: Blue <br> Selector Knob: Blue <br> Weight: $15 \mathrm{oz} .(426 \mathrm{~g})$ | 1 |

Hand Operated
Tools-
Installer-Controlled Tension and Cut-Off


- Inexpensive, maintenancefree, all purpose tools
- Ergonomic handle design and short handle span
- Top loading feature for right or left-handed users

- Durable all steel construction
- Comfortable rubber handles

- Durable all steel construction
- "Travel stop" helps prevent pinched fingers

PANDUIT ${ }^{\circledR}$ offers an economical series of tools for maintenance or construction applications - the user determines the required cable tie tension and the tools provide a cut-off. Used with the full line of PANDUIT ${ }^{\circledR}$ Cable Ties.

| Part Number | Description | Std. <br> Pkg. <br> Qty.* |
| :---: | :---: | :---: |
| STS2 | Installs $P A N D U I T^{\oplus}$ Miniature, Intermediate or Standard cross section cable ties. See STH2 operation below. <br> Color Identification: Black <br> Weight: 2 1/2 oz. (71g) | 1 |
| STH2 | Installs PANDUIT ${ }^{\oplus}$ Standard, Heavy-Standard, Light-Heavy or Heavy cross section cable ties. <br> Color Identification: Red Weight: 2 1/2 oz. (71g) <br> INSTALLATION PROCEDURE FOR STS2 AND STH2 TOOLS <br> 1. Install cable tie around bundle. Tension tie by squeezing tool handle. <br> 2. Reduce tension slightly and twist tool $1 / 4$ turn either direction for cut-off of cable tie. | 1 |
| ST2EH | Installs PANDUIT ${ }^{\oplus}$ Light-Heavy, Heavy or Extra-Heavy cross section cable ties. <br> Color Identification: Black Handles <br> Weight: 16 oz. (454g) <br> After installing tie around bundle and tensioning, tool is twisted a $1 / 4$ turn "in either direction" to cut off excess tie. | 1 |
| STHV | Installs PANDUIT® Light-Heavy and Heavy cross section cable ties. <br> Color Identification: All Yellow <br> Weight: 14 oz . (399g) <br> After installing tie around bundle, the handles are squeezed to provide tension. A separate lever cuts excess tie. | 1 |

## Pneumatic Hand Tools Tool-Controlled Tension and Cut-Off



PANDUIT ${ }^{\oplus}$ pneumatic tools tension and cut off excess tie after it is hand-installed around the bundle, minimizing operator fatigue. Tools are rugged, yet lightweight.

For PANDUIT ${ }^{\circledR}$ Cable Ties up to $1 / 2^{\prime \prime}$ ( 12.7 mm ) wide

- Easy to change tension adjustment
- Requires no special training to use
- Durable, lightweight, easy to operate anddesigned to reduce operator fatigue
- Tensions and cuts off excess tie in a fraction of a second
- Operates on non-lubricated air, without special maintenance

|  | Part Number | Description | Std. Pkg. Qty.* |
| :---: | :---: | :---: | :---: |
|  | PTS | Installs Subminiature, Miniature, Intermediate or Standard cross section cable ties. <br> Color identification: (Knob) Black <br> Weight: 17.3 oz . 490 g ) <br> Replacement parts can be part of a scheduled maintenance program <br> Plastic molded housing <br> Ergonomic design | 1 |
|  | PPTS | Installs Miniature, Intermediate or Standard cross section cable ties. <br> Color identification: (Knob) Black <br> Weight: 18 oz. (510g) <br> Replacement parts can be part of a scheduled maintenance program Powder coat finish | 1 |
|  | PPTEH | Installs Light-Heavy, Heavy and Extra-Heavy cross section cable ties. <br> Color Identification: (Knob) Blue <br> Weight: 52 oz . ( 1476 g ) <br> Replacement parts can be part of a scheduled maintenance program Powder coat finish | 1 |
| Filter Regulator and Hose | PPH10 | 10' (3m) Hose Assembly (regulator to tool). Includes a 1/8" NPT male connector (to regulator) and $1 / 8^{\prime \prime}$ female quick disconnect fitting (to tool). |  |
|  | PL289N1 | Filter/Regulator . 5 micron (max.) element, regulated range 3-100 PSIG, 1/8" ports. | 1 |

Note: PTS, PPTS and PPTEH tools require the PPH10 hose and PL289N1 Filter/Regulator for proper operation.

## Adjustment Features

Each cross section of cable ties can be installed with a variety of tensions to meet the application. The proper tension range is marked on each package of cable ties.

Fast and Easy Selection


GTS Tool - Tension Setting Dial


GS2B Tool - Tension Setting Knob

## Tool Tension Lock Kits

Certain applications require a locking device on the selector knob (one cross-section size and tension only).

|  |
| :--- |


| Part Number | Description | Std. <br> Pkg. <br> Qty.* |
| :---: | :---: | :---: |
| KGTSTL | Tension Locking Kit for GTS. |  |
| KGTHTL | Tension Locking Kit for GTH. |  |
| KPTSTL | Tension Locking Kit for PTS. | 10 |
| TTLK3 | Tool Tension Lock Kit. <br> Each kit contains (1) \#4-40 selection locking screw (with head), (1) selection locking clip, and (1) \#4-40 tension locking screw (headless). For use with GS-Family Tools. |  |

## Repair Parts

Can be part of a scheduled maintenance plan or use only when cutoffs are not clean and crisp.

## Blade Replacement Kits

| KGTSBLD | Blade Replacement Kit for GTS, PTS. |  |
| :--- | :--- | :---: |
| KGTHBLD | Blade Replacement Kit for GTH. | 1 |
| K2-BLD2 | Blade Replacement Kit for GS2B and PPTS (all versions). |  |
| K4H-BLD | Blade Replacement Kit for GS4H series (3-screw blade guard only). |  |
| KPPTEHB | Blade Replacement Kit for PPTEH series. |  |

Gripper Replacement Kits

|  | Gripper Replacement Kits |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: |
|  | KPPTEHG <br> KPTSG <br> KST2EHG | Gripper Replacement Kit for PPTEH series. <br> Gripper Replacement Kit for PPTS. <br> Gripper Replacement Kit for ST2EH. |  |  |  |  |  |  |
| Hand Tool Accessory | GHH | Specifically designed to hold GTS, and GS (series) or PPTS tools. <br> Used wherever the hand tools are used-construction sites to assembly lines for <br> a convenient and handy place for the tool. |  |  |  |  |  |  |



GHH — Holster

PAT1M/PAT1.5M Reel-Fed Systems for Miniature Cross Section Cable Ties ( $18 \mathrm{lb} .(80 \mathrm{~N}$ ) minimum loop tensile)


- The system consists of the tool head, dispenser, feeder hose and continuously molded, reel-fed cable ties ( 5000 ties per reel). Each system will install a cable tie in less than one second
- Choice of two tool head sizes for bundle diameters up to .82 " $(21 \mathrm{~mm})$ or up to 1.3 " (33mm)
- The dispenser and hose are designed to operate with either tool head for maximum versatility and economy
- The system design permits complete mobility in the use of the tool and location of the dispenser
- The system operates on 65 psig (minimum) non-lubricated, filtered air and 100-240 VAC 150 or 60 Hz -Automatically adjusts within this range
- Optional bench mount shown on page 61
- Choice of 3 materials


## Tool Heads



|  |  | Std. <br> Pkg. <br> Qty. |
| :--- | :--- | :---: |
| Part Number | Description | 1 |
| PAT1M | Tool Head for cable ties up to $.82^{\prime \prime}(21 \mathrm{~mm})$ bundle diameter (PLT1M-XMR). | 1 |
| PAT1.5M | Tool Head for cable ties up to $1.3^{\prime \prime}(33 \mathrm{~mm})$ bundle diameter (PLT1.5M-XMR). | 1 |

- Lightweight, no counter-balance required
- Slim, ergonomically designed handle for operator comfort and greater productivity. Reduces potential for repetitive motion injuries
- Right or left hand operation
- Durable, one-piece cable tie tip collector (for cut-off tips)
- Includes tension adjustment
- Built-in safety interlock prevents false triggering if anything obstructs jaw path


## Dispenser



## Feeder Hose



Other Components


| PDH10-37 | Air hose from filter/regulator to dispenser/. 9.8' (3m). <br> Includes standard air fittings. | 1 |
| :--- | :--- | :---: |
| PL283N1 | Filter/regulator 25 micron (max.) element, 3/8 " ports. | 1 |



For Operations Where the Application is Brought to the Tool

- Used with either PAT1M or PAT1.5M tool head
- Supplied with a foot-actuated pedal to allow operator to work with both hands
- A tool can be installed in the mount in seconds
- Supplied with a four-hole base plate
- The bench mount operates on 65 psi non-lubricated, filtered air which pilots off of the dispenser

In addition to tool head, dispenser, feeder hose and cable ties on reels; order the following:

| Part Number | Description | Pkg. <br> Qty. |
| :--- | :---: | :---: |
| PATMBM | Bench mount and foot pedal for PAT1M/PAT1.5M system, four-hole base plate. | 1 |

## Cable Ties for PAT1M/PAT1.5M Systems

Continuously molded cable ties in sizes, color and material options to meet the application.

| Part Number |  | Color | Max. Bundle Diameter in. (mm) | Length in. (mm) | Width in. (mm) | Min. Loop Tensile Strength Lbs. (N) | Use with PANDUIT ${ }^{\text {® }}$ Installation System |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nylon 6.6 (for indoor use) up to $185{ }^{\circ} \mathrm{F}\left(85^{\circ} \mathrm{C}\right)$ |  |  |  |  |  |  |
|  | PLT1M-XMR | Natural |  |  |  |  |  |
|  | PLT1M-XMR1 <br> PLT1M-XMR2 <br> PLT1M-XMR3 <br> PLT1M-XMR4 <br> PLT1M-XMR5 <br> PLT1M-XMR6 <br> PLT1M-XMR7 <br> PLT1M-XMR8 <br> PLT1M-XMR10 | Brown <br> Red <br> Orange <br> Yellow <br> Green <br> Blue <br> Purple Gray White | $\begin{aligned} & .82 \\ & (21) \end{aligned}$ | $\begin{gathered} 4.0 \\ (102) \end{gathered}$ | $\begin{aligned} & .100 \\ & (2.5) \end{aligned}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | PAT1M |
|  | PLT1.5M-XMR | Natural | $\begin{aligned} & \hline 1.31 \\ & (33) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 5.6 \\ (142) \\ \hline \end{gathered}$ |  |  | PAT1.5M |
|  | Weather Resistant Nylon (for outdoor use) up to $185^{\circ} \mathrm{F}\left(85^{\circ} \mathrm{C}\right)$ |  |  |  |  |  |  |
|  | PLT1M-XMR0 | Black | $\begin{aligned} & \hline .82 \\ & (21) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 4.0 \\ (102) \\ \hline \end{gathered}$ | . 100 | 18 | PAT1M |
|  | PLT1.5M-XMR0 | Black | $\begin{aligned} & \hline 1.31 \\ & (33) \\ & \hline \end{aligned}$ | $\begin{gathered} 5.6 \\ (142) \\ \hline \end{gathered}$ | (2.5) | (80) | PAT1.5M |
|  | Heat Stabilized Nylon (for indoor use) up to $238{ }^{\circ} \mathrm{F}\left(115^{\circ} \mathrm{C}\right)$ |  |  |  |  |  |  |
|  | PLT1M-XMR30 | Black | $\begin{gathered} \hline .82 \\ (21) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 4.0 \\ (102) \\ \hline \end{gathered}$ | $\begin{aligned} & .100 \\ & (2.5) \end{aligned}$ | $\begin{gathered} 18 \\ (80) \end{gathered}$ | PAT1M |
|  | PLT1.5M-XMR30 |  | $\begin{aligned} & \hline 1.31 \\ & (33) \\ & \hline \end{aligned}$ | $\begin{gathered} 5.6 \\ (142) \\ \hline \end{gathered}$ |  |  | PAT1.5M |

## PaNDUIT ${ }^{\text {® }}$ Cable Tie Selection and Specification Guidelines

## Selecting the Proper Cable Tie Material for Your Application



By using this information as a guide, the user will be better equipped to select the best suited cable tie and material to perform its intended function over a long period of time.

For long life and dependable service, there are many factors to consider when selecting the proper cable tie for each application. Since it is impossible for PANDUIT ${ }^{\oplus}$ to provide data on all the various combinations of conditions which may arise, it is suggested that this data be used as a guide. Sample cable ties should be tested under actual end-use conditions to determine the correct cable tie for the application.

To select the optimum cable tie for a specific application, the following table can be used as a quick reference. First, determine the most critical design criteria and then read across the table to find which material is most suitable to meet this need ( $10=$ Most Suitable and $1=$ Least Suitable). Next, review the other criteria by scanning in a vertical direction on the chart and then make your final selection.

| Design Criteria |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { * } \\ & \stackrel{3}{4} \\ & \stackrel{N}{N} \\ & \stackrel{\rightharpoonup}{H} \end{aligned}$ | $\begin{gathered} \stackrel{\rightharpoonup}{*} \\ \stackrel{y}{4} \\ \stackrel{y}{4} \\ \hline \end{gathered}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number Suffix Material Designation |  | -0 | -30 | -39 | -300 | -60 | -69 | -120 | -109 | -100 | -76 | -702 | N/A |  |
| Loop Tensile Strength | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 5 | 7 | 5 | 9 | 10 |
| Low Temperature Service | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 6 | 10 |
| High Temperature Service | 5 | 5 | 6 | 6 | 6 | 5 | 5] | 5 | 5 | 5 | 8 | 7 | 3 | 10 |
| Flammability | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 3 | 2 | 2 | 9 | 9 | 2 | 10 |
| Ultraviolet Resistance | 1 | 6 | 4 | 1 | 6 | 1 | 1 | 7 | 1 | 6 | 9 | 9 | 9 | 10 |
| Radiation Resistance | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 9 | 9 | 3 | 10 |
| Overall Chemical Resistance <br> -Hydrocarbons <br> -Chlorinated Hydrocarbons <br> -Acids <br> -Bases <br> -Salts | $\begin{aligned} & \hline 6 \\ & 9 \\ & 9 \\ & 2 \\ & 2 \\ & 7 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & 9 \\ & 7 \\ & 2 \\ & 7 \\ & 7 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & 9 \\ & 7 \\ & 2 \\ & 2 \\ & 7 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & 9 \\ & 7 \\ & 2 \\ & 2 \\ & 7 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & 9 \\ & 7 \\ & 2 \\ & 7 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & 9 \\ & 7 \\ & 2 \\ & 7 \\ & 7 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & 9 \\ & 7 \\ & 2 \\ & 7 \\ & 7 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline 8 \\ & 9 \\ & 8 \\ & 6 \\ & 7 \\ & 7 \\ & 8 \end{aligned}$ | 5 8 6 5 9 9 10 | $\begin{gathered} \hline 8 \\ 6 \\ 5 \\ 9 \\ 9 \\ 9 \\ 10 \end{gathered}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & \hline 5 \\ & 9 \\ & 8 \\ & 2 \\ & 2 \\ & 4 \end{aligned}$ | $\begin{gathered} \hline 9 \\ 10 \\ 10 \\ 10 \\ 8 \\ 9 \end{gathered}$ |
| Relative Price | Low | Low | Low | Low | Med. | Med. | Med. | Med. | Low | Low | High | High | Med. | High |

Example No. 1:

| Application | Selection |
| :--- | :--- |
| If the application requires high radiation $\left(2 \times 10^{8}\right.$ rads) resistance, excellent <br> resistance to hydrocarbons and the price is not critical. | The best choice is TEFZEL*** or stainless steel. The price is higher than other <br> materials, but both have high ratings in resistance to radiation and hydrocarbons. |

## Example No. 2:

| Application | Selection |
| :--- | :--- |
| If the application requires a low cost material, good ultraviolet resistance and good <br> resistance to acid rains. | The best choice is weather resistant polypropylene. Cost is low; it has a rating of 6 <br> in ultraviolet resistance and a rating of 9 in resistance to acids. |

To select the proper cable tie for your application, start at the left of the chart and answer the "Yes" and "No" questions until you arrive at the correct material to use.


## Weathering

Ultraviolet light (which is a component of sunlight) attacks, over a period of time, most plastic materials and reduces their properties by breaking the molecular chain. The material breakdown is accompanied by reductions in tensile strength and elongation, increased brittleness, color changes and loss of surface gloss.
Carbon black, which is used in PANDUIT ${ }^{\circledR}$ nylon and polypropylene cable ties, is one of the most effective stabilizers known today. A uniform dispersion of carbon black provides good ultraviolet light resistance without adversely affecting physical properties. The addition of carbon black, or any other ultraviolet light stabilizer, prolongs the useful life of plastic products used outdoors, but it does not totally eliminate the destructive effects of the
 light. Some plastics, such as TEFZEL** or HALAR*, are intrinsically very resistant to ultraviolet light and do not require stabilizing additives.

## Weathering Test Methods

In order to monitor the effects of ultraviolet light and the effectiveness of ultraviolet stabilizers, PANDUIT ${ }^{\oplus}$, in conformance with industry standards, adopted two methods of weatherability testing: Outdoor Aging and Accelerated Weather Aging.

## Outdoor Aging

The Outdoor Aging method is probably the best and most realistic method of the two. It is conducted in accordance with ASTM D1435 Standard Practice for Outdoor Weathering of Plastics, and allows the material to be affected by not only ultraviolet light, but by all other outdoor elements as well. Although this may more closely approximate an actual application, two drawbacks do exist. The period of time required to produce property decay and material failure may be quite long, and varying adverse chemical environments cannot be tested.

## Accelerated Weather Aging

Accelerated weathering tests are conducted to estimate the rate of degradation due to a combination of ultraviolet light, temperature and moisture. The methods used are in accordance with the following standards:

- ASTM D1499, Operating Light and Water Exposure Apparatus (Carbon-Arc type) for exposure to plastics
- ASTM G53, Operating Light and Water Exposure (Fluorescent U.V. Condensation type) for exposure of non-metallic materials

The condition specified in ASTM D1499 utilizes a carbon arc to simulate natural sunshine and a water spray. The test chamber is operated $20 \mathrm{hrs} / \mathrm{day}$ with a two hour cycle of 108 minutes of simulated sunshine and 12 minutes of sunshine and water spray. The temperature of a black body inside the chamber is approximately $63^{\circ} \mathrm{C}\left(145^{\circ} \mathrm{F}\right)$ during the "Sunshine Only" portion of the cycle. Humidity is not controlled inside the chamber.

The test chamber per ASTM G53 uses fluorescent sun lamps to generate ultraviolet light only. A heated water pan produces condensation during a portion of the cycle. The daily cycle is composed of 20 hours of light followed by 4 hours of condensation. Black body temperatures during the light cycle are $50^{\circ} \mathrm{C}\left(122^{\circ} \mathrm{F}\right)$ and $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ during the condensation cycle.

PANDUIT ${ }^{\circledR}$ has also designed a special chamber which is used to simulate the effect of acid rain and ultraviolet light on cable tie materials. The effect of other common chemicals, such as road salt, are also evaluated in this chamber.

These methods are effective in quickly determining the ultraviolet light resistance of the various cable tie materials, but it must be emphasized that there are no exact correlations between accelerated aging and actual outdoor exposure.

## Material Failure Testing

Property decay can lead to three different modes of failure: loss of strength, loss of toughness or change in appearance. The critical mode for any given application would depend upon the application and the requirements it places upon the material itself.

Loss of strength is monitored by tensile testing samples of the material before and after it has been weathered. This test will reveal the decreasing strength accompanied by extended weathering.

Loss of toughness can be monitored by measuring changes in elongation and impact strength. As ultraviolet light exposure time increases and the material becomes brittle, its elongation and impact strength are greatly reduced. It is important to note that brittle failures can occur even when the tensile strength shows no change.

Although change in appearance is normally not a failure mode for cable ties, the plastic does tend to discolor and lose its surface gloss as exposure increases. These changes can be measured by color difference using Adams units which are similar to National Bureau of Standard units.

PANDUIT ${ }^{\oplus}$ has its own weathering test program to determine estimated life of various cable tie materials. This includes examining many previously aged samples obtained throughout the world.

In all cases, the amount of property decay increased with increasing exposure to ultraviolet light. The principal signs of degradation were found to be brittleness, cracking and loss of surface gloss. It was also determined that the time for failure to occur was shorter than indicated from industry tests performed on material samples. This discrepancy is in part due to the fact that cable ties were tested in an end use, stressed condition, while most plastic resin suppliers conduct weathering tests using unstressed test bars.

Four cable tie materials (TEFZEL**, HALAR*, Weather Resistant ACETAL and Stainless Steel) have superior ultraviolet light resistance. In tests conducted to date, all have shown no significant signs of degradation.

Determining the outdoor life expectancy of any material is difficult since there are other factors, besides ultraviolet light stability, which have to be considered. These factors are listed below and should be considered before specifying a cable tie material.

## TABLE A — External Factors Which Affect the Life of a Cable Tie

| FACTORS | DECREASED LIFE |
| :--- | :--- |
| Chemicals | Applications which have chemicals present can reduce the life. This is <br> the most detrimental factor to the life of a tie. |
| Bundle <br> Diameter | As the bundle diameter is reduced, the tie has more bending stress. <br> A thick strap on small diameter has more stress. |
| Loading | If the tie is under high loading, this will add additional stress on the <br> tie body. |
| Thickness | A thinner tie will have a decreased life since surface cracks will <br> penetrate the thickness of the tie faster. |
| Vibration | Applications with high vibrations will cause impact which will <br> propagate any surface cracks. |
| Degree of <br> Exposure | No shield or shade, southern exposure, higher altitudes and high <br> temperatures decrease the life of the cable tie. |
| Moisture | Dry environments cause nylon 6.6 ties to become more brittle. High <br> humidity plus high temperatures can result in degradation due to <br> hydrolysis in nylon. |
| Galvanized <br> Metals | Acid rain and acid moisture acting on galvanized metals release <br> chemicals known to attack nylon 6.6. |


| WEATHERING LIFE EXPECTANCY |  |
| :--- | :---: |
| Materials (P/N Suffix) | Years $^{*}$ |
| Natural Polypropylene (-109) | 1 |
| Natural Nylon 6.6 | $1-2$ |
| Flame Retardant Black Nylon 6.6 (-60) | $1-2$ |
| Flame Retardant Nylon 6.6 (-69) | $1-2$ |
| Heat Stabilized Nylon 6.6 (-30) | $4-5$ |
| Heat Stabilized Natural Nylon 6.6 (-39) | $1-2$ |
| Weather Resistant Nylon 6.6 (-0 \& -00) | $7-9$ |
| Heat Stabilized Weather Resistant Nylon 6.6 (-300) | $7-9$ |
| Weather Resistant Polypropylene (-100) | $7-9$ |
| Weather Resistant Nylon 12 (-120) | $12-15$ |
| TEFZEL** (-76) | $>15$ |
| HALAR** (-702) $^{\text {Acetal }}$ | $>15$ |
| Stainless Steel (MLT prefix) | $>20$ |

*Based on assumption of minimum loading, no chemical attack and impact-free conditions.

## Flammability

A number of test procedures have been developed which can be used for the evaluation and comparison of various materials to support combustion.

## UL94 Vertical Burning Test

Samples of a material, with dimensions 127 mm by 12.7 mm and the thickness of the intended end use product, are tested in an unaged "as manufactured" state and in an aged state ( 7 days at $158^{\circ} \mathrm{F}, 70^{\circ} \mathrm{C}$ ). The test requires the placement of a precisely controlled flame under a vertically supported specimen for a 10 second period. The flame is removed and the duration of flaming is recorded. If the flame extinguishes, the specimen is immediately subjected to a second 10 second ignition period. Duration of flaming is again recorded. A piece of surgical cotton is placed under the specimen. If drips ignite the cotton, this fact is also recorded.


## Materials Classed 94V-0

Materials classed 94V-0 shall:

- Not have any specimens which burn with flaming combustion for more than 10 seconds after either application of the test flame
- Not have a total flaming combustion time exceeding 50 seconds for the 10 flame applications for each set of five specimens
- Not have any specimens which burn with flaming or glowing combustion up to the holding clamp
- Not have any specimens which drip flaming particles that ignite the dry absorbent surgical cotton located 12" $(305 \mathrm{~mm})$ below the test specimen
- Not have any specimens with glowing combustion which persists for more than 30 seconds after the second removal of the test flame


## Materials Classed 94V-1

Materials classed 94 V -1 shall:

- Not have any specimens which burn with flaming combustion for more than 30 seconds after either application of the test flame
- Not have a total flaming combustion time exceeding 250 seconds for the 10 flame applications for each set of five specimens
- Not have any specimens which burn with flaming or glowing combustion up to the holding clamp
- Not have any specimens which drip flaming particles that ignite the dry absorbent surgical cotton located 12" $(305 \mathrm{~mm})$ below the test specimen
- Not have any specimens with glowing combustion which persists for more than 60 seconds after the second removal of the test flame


## Materials Classed 94V-2

- Not have any specimens which burn with flaming combustion for more than 30 seconds after either application of the test flame
- Not have a total flaming combustion time exceeding 250 seconds for the 10 flame applications for each set of five specimens
- Not have any specimens which burn with flaming or glowing combustion up to the holding clamp
- Be permitted to have specimens that drip flaming particles which burn only briefly, some of which ignite the dry absorbent surgical cotton placed 12" ( 305 mm ) below the test specimen
- Not have any specimens with glowing combustion which persists for more than 60 seconds after the second removal of the test flame


## PANDUIT ${ }^{\circ}$ Flammability

## ASTM D 635

Samples of a material, with dimensions 125 mm by 12.5 mm and the thickness of the intended end use product, are tested in an unaged "as manufactured" state. A precisely controlled flame is applied to the specimen and a stopwatch is started. The flame is applied for 30 seconds. The stopwatch is stopped when burning or glowing combustion ceases or when the flame has proceeded to a mark 100 mm from the free end. Ten specimens are tested.

- Burning Rate
- If two or more specimens have burned to the 100 mm mark then Average Burning Rate ( $\mathrm{cm} / \mathrm{min}$.) shall be reported as the average of the burning rates of all specimens which have burned to the 100 mm mark
- Average Time of Burning and Average Extent of Burning
- Average time of burning and average extent of burning of the sample shall be reported if none of ten samples or no more than one of twenty specimens have burned to the 100 mm mark
- Average Time of Burning (ATB):


Rounded to the nearest 5 sec .

- Average Extent of Burning (AEB):

AEB, mm $=\frac{\sum_{0}^{10}(100-\text { unburned length })}{\text { Number of Specimens }}$
Rounded to the nearest 5 mm

Flammability Ratings

| Materials | UL94 | ASTM D635 |
| :---: | :---: | :---: |
| Natural Nylon 6.6 | 94V-2 (1/16") | $\begin{gathered} \text { AEB }=20 \mathrm{~mm} \\ \text { ATB }=5 \text { seconds } \end{gathered}$ |
| Weather Resistant Nylon 6.6 (-00) | 94V-2 (1/16") | $\begin{gathered} \text { AEB }=20 \mathrm{~mm} \\ \text { ATB }=5 \text { seconds } \end{gathered}$ |
| Weather Resistant Nylon 6.6 (-0) | 94V-2 (1/16") | $\begin{gathered} \text { AEB }=20 \mathrm{~mm} \\ \text { ATB }=5 \text { seconds } \end{gathered}$ |
| Heat Stabilized Nylon 6.6 (-30) | 94V-2 (1/16") | $\begin{gathered} \text { AEB }=20 \mathrm{~mm} \\ \text { ATB }=5 \text { seconds } \end{gathered}$ |
| Heat Stabilized Natural Nylon 6.6 (-39) | 94V-2 (1/16") | $\begin{gathered} \text { AEB }=20 \mathrm{~mm} \\ \text { ATB }=5 \text { seconds } \end{gathered}$ |
| Heat Stabilized Weather Resistant Nylon 6.6 (-300) | 94V-2 (1/16") | $\begin{gathered} \text { AEB }=20 \mathrm{~mm} \\ \text { ATB }=5 \text { seconds } \end{gathered}$ |
| Flame Retardant Black Nylon 6.6 (-60) | 94V-0 (1/64") | AEB $=15 \mathrm{~mm}$ ATB < 5 seconds |
| Flame Retardant Nylon 6.6 (-69) | 94V-0 (1/64") | $\begin{gathered} \text { AEB }=15 \mathrm{~mm} \\ \text { ATB }<5 \text { seconds } \end{gathered}$ |
| Weather Resistant Nylon 12 (-120) | Not Recognized | Ave. Burning Rate $1.6 \mathrm{~cm} / \mathrm{min}$. |
| Natural Polypropylene (-109) | Not Recognized | Ave. Burning Rate $2 \mathrm{~cm} / \mathrm{min}$. |
| Weather Resistant Polypropylene (-100) | 94 HB (.94mm) | Ave. Burning Rate $2 \mathrm{~cm} / \mathrm{min}$. |
| TEFZEL** (-76) | 94V-0(1/16") | AEB $<15 \mathrm{~mm}$ ATB $<5$ seconds |
| HALAR* (-702) | 94V-0(1/16") | $A E B=15 \mathrm{~min}$. ATB < 5 seconds* |
| Weather Resistant ACETAL (DT Series) | 94 HB (1.5mm) | Ave. Burning Rate $2.8 \mathrm{~cm} / \mathrm{min}$. |
| Stainless (MLT prefix) | Not Applicable | Not Applicable |

Rating based on $1 / 8^{\prime \prime}$ thick test samples

## Radiation

Installed cable ties of various materials have been exposed to different amounts of radiation to determine the maximum acceptable limit. These tests were conducted by PANDUIT ${ }^{\oplus}$ mainly to determine the acceptability for use in various areas of nuclear power plants (accumulated over 40 year life). See Table B (page 69) for radiation resistance rating.


## Moisture

Many plastics when exposed to high relative humidity absorb water and, as such, the tensile strength of the material can change dramatically. Nylon 6.6 when exposed to $100 \%$ relative humidity, will absorb as much as $8.5 \%$ water which will reduce tensile strength by $50 \%$ when compared to a dry cable tie. Polypropylene, HALAR*, Type 12 Nylon, TEFZEL** and ACETAL are low water absorbing materials and, as such, the effect of water is minimal.
See Table B (page 69) for moisture absorption.


## Temperature

Plastic materials normally undergo property loss during exposure to high temperature due to oxidation. The Maximum Continuous Use Temperature for cable tie materials depends upon the time at the elevated temperature as well as other environmental conditions. Initially, plastics become more flexible and weaker when exposed to high temperatures. After a period of time, oxidation may occur which will cause embrittlement, making plastic cable ties more susceptible to failure from impact and vibration.

The Maximum Continuous Use Temperature, otherwise known as the Relative Thermal Index (mechanical without impact) is determined per UL746B. It is one indicator of a materials ability
 to retain a particular physical property when exposed to elevated temperatures over an extended period of time. It is based on the assumption that there is no loading, no chemical attack and impact free condition. The Maximum Continuous Use Temperatures for cable tie materials are listed in Table B (see page 69).

Low temperature exposure will also make most plastics more brittle during the exposure, but little property loss occurs when the material is returned to room temperatures. The Minimum Continuous Use Temperatures for cable tie materials are listed in Table B (see page 69).

## Tensile Strength

Most cable ties are selected based on material, length and minimum loop tensile strength. Minimum loop tensile strength was established under SAE Aerospace Standard AS23190. Each cross section cable tie (Miniature-M, Intermediate-I, Standard-S, Heavy-H and Extra Heavy-EH) has a different loop tensile strength when tested per AS23190.

The cable tie is first conditioned at $49^{\circ} \mathrm{C}\left(120^{\circ} \mathrm{F}\right), 20 \%$ relative humidity for 24 hours, then the cable tie is installed on a split mandrel and the halves of the mandrel separated at a rate of $1^{\prime \prime}(25.4 \mathrm{~mm})$ per minute (Fig.1). The separating force required to unlock or break the cable tie is the loop tensile strength. Loop tensile strength is dependent both on the locking design and the tensile strength (psi) of the material. As an example, the tensile strength of polypropylene material is approximately $1 / 2$ to $1 / 3$ of nylon 6.6 ; thus the loop tensile strength of a given cross section tie made of polypropylene would be much less than a tie made of nylon 6.6. This is another property to be considered when selecting a cable tie. The various representative loop tensile strengths are listed in Table B (page 69).


Fig. 1

TABLE B

| Design Criteria |  |  |  |  |  |  |  |  |  |  |  | $\stackrel{*}{\stackrel{*}{\mu}} \underset{\underset{\sim}{\sim}}{\underset{\sim}{\sim}}$ | $\stackrel{*}{\stackrel{*}{4}}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number Suffix/ Material Designation |  | None | $\begin{gathered} -0 \text { and } \\ -00 \\ \hline \end{gathered}$ | -30 | -39 | -300 | -60 | -69 | -120 | -109 | -100 | -76 | -702 | N/A | N/A |
| Tensile Strength $73^{\circ} \mathrm{F}$ (psi) |  | $\begin{array}{\|c\|} \hline 12,000 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{gathered} 12,000 \\ \text { (Note 1) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 12,000 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 12,000 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 12,000 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 12,000 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 12,000 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 8,100 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 4,100 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 4,100 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 7,500 \\ \text { (Note 1) } \end{array}$ | $\begin{array}{\|c} \hline 7,000 \\ \text { (Note 1) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 6,500 \\ \text { (Note 2) } \\ \hline \end{array}$ | $\begin{gathered} 90,000 \\ \text { (Note 3) } \\ \hline \end{gathered}$ |
| Color |  | Natural | Black | Black | Natural | Black | Black | Ivory | Black | Green | Black | Aqua | Maroon | Black | Stainless |
| UL Flammability |  | See Page 66 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oxygen Index |  | 28 | 28 | 26 | 26 | 26 | 34 | 34 | NA | NA | NA | 30 | 60 | NA | NA |
| Radiation Resistance |  | $\begin{gathered} 1 \times 10^{5} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 1 \times 10^{5} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 1 \times 10^{5} \\ \text { Rads } \end{gathered}$ | $1 \times 10^{5}$ Rads | $\begin{gathered} 1 \times 10^{5} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 1 \times 10^{5} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 1 \times 10^{5} \\ \text { Rads } \end{gathered}$ | $\begin{array}{\|c\|} \hline 3.5 \times 10^{6} \\ \text { Rads } \end{array}$ | $\begin{gathered} 1 \times 10^{6} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 1 \times 10^{6} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 2 \times 10^{8} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 2 \times 10^{8} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 6 \times 10^{5} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 2 \times 10^{8} \\ \text { Rads } \end{gathered}$ |
| Water Absorption (24 hours) |  | 1.2\% | 1.2\% | 1.2\% | 1.2\% | 1.2\% | 1.1\% | 1.1\% | 0.3\% | 0.1\% | 0.1\% | <0.03\% | <0.05\% | <0.45\% | None |
| Ultraviolet Light Resistance |  | Poor | Good | Fair | Poor | Good | Poor | Poor | Good | Poor | Good | Very Good | Very Good | Excellent | Excellent |
| Max. Continuous Use Temperature (Note 4) |  | $\begin{aligned} & 185^{\circ} \mathrm{F} \\ & 85^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 185^{\circ} \mathrm{F} \\ & 85^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 239^{\circ} \mathrm{F} \\ & 115^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 239^{\circ} \mathrm{F} \\ & 115^{\circ} \mathrm{C} \end{aligned}$ | $\begin{array}{\|c\|} \hline 212^{\circ} \mathrm{F} \\ 100^{\circ} \mathrm{C} \\ (\text { Note } 5) \\ \hline \end{array}$ | $\begin{aligned} & 212^{\circ} \mathrm{F} \\ & 100^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 212^{\circ} \mathrm{F} \\ & 100^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 194^{\circ} \mathrm{F} \\ & 90^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 238^{\circ} \mathrm{F} \\ & 115^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 238^{\circ} \mathrm{F} \\ & 115^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 338^{\circ} \mathrm{F} \\ & 170^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 302^{\circ} \mathrm{F} \\ & 150^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 185^{\circ} \mathrm{F} \\ & 85^{\circ} \mathrm{C} \end{aligned}$ | $\begin{gathered} 1000^{\circ} \mathrm{F} \\ 537^{\circ} \mathrm{C} \\ (\text { Note } 6 \text { ) } \end{gathered}$ |
| Min. Continuous Use Temperature (Note 7) |  | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline-50^{\circ} \mathrm{F} \\ & -46^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -50^{\circ} \mathrm{F} \\ & -46^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -40^{\circ} \mathrm{F} \\ & -40^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & -112^{\circ} \mathrm{F} \\ & -80^{\circ} \mathrm{C} \end{aligned}$ |
| Minimum Loop Tensile Strength @ $120^{\circ} \mathrm{F}$ 20\% RH | Submin. <br> Min. <br> Int. | 12 lb . 18 lb. 40 lb . | 12 lb . 18 lb . 40 lb . | $\begin{gathered} \mathrm{N} / \mathrm{A} \\ 18 \mathrm{lb} . \\ 40 \mathrm{lb} . \end{gathered}$ | $\begin{gathered} \mathrm{N} / \mathrm{A} \\ 18 \mathrm{lb} . \\ 40 \mathrm{lb} . \end{gathered}$ | N/A 18 lb . 30 lb . | N/A 18 lb . 30 lb . | $\begin{gathered} \mathrm{N} / \mathrm{A} \\ 18 \mathrm{lb} . \\ 40 \mathrm{lb} . \end{gathered}$ | $\begin{gathered} \mathrm{N} / \mathrm{A} \\ \mathrm{~N} / \mathrm{A} \\ 25 \mathrm{lb} . \end{gathered}$ | $\begin{gathered} \mathrm{N} / \mathrm{A} \\ 12 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \end{gathered}$ | $\begin{gathered} \mathrm{N} / \mathrm{A} \\ 12 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \end{gathered}$ | N/A 18 lb . 25 lb . | $\begin{gathered} \mathrm{N} / \mathrm{A} \\ 18 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \end{gathered}$ | $\begin{aligned} & \text { N/A } \\ & \text { N/A } \\ & \text { N/A } \end{aligned}$ | $\begin{aligned} & \text { N/A } \\ & \text { N/A } \\ & \text { N/A } \end{aligned}$ |
|  | Std. <br> Hvy.-Std. <br> Hvy. <br> EH <br> DH | $\begin{gathered} 50 \mathrm{lb} . \\ 85 \mathrm{lb} . \\ 120 / \\ 175 \mathrm{lb} . \\ 250 \mathrm{lb} . \end{gathered}$ | $\begin{gathered} 50 \mathrm{lb} . \\ 85 \mathrm{lb} . \\ 120 / \\ 175 \mathrm{lb} . \\ 250 \mathrm{lb} . \end{gathered}$ | $\begin{gathered} 50 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \\ 120 / \\ 175 \mathrm{lb} . \\ 250 \mathrm{lb} . \end{gathered}$ | $\begin{gathered} 50 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \\ 120 / \\ 175 \mathrm{lb} . \\ 250 \mathrm{lb} . \end{gathered}$ | $\begin{gathered} 50 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \\ 120 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \end{gathered}$ | $\begin{gathered} 50 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \\ 120 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \end{gathered}$ | $\begin{gathered} 50 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \\ 120 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \end{gathered}$ | $\begin{gathered} 40 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \\ 90 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \end{gathered}$ | 30 lb . N/A 50 lb . 90 lb . | 30 lb . N/A 50 lb . 90 lb . | $\begin{gathered} 50 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \\ 120 \mathrm{lb} . \\ \mathrm{N} / \mathrm{A} \end{gathered}$ | 50 lb. <br> N/A <br> N/A <br> N/A | $\begin{gathered} \text { N/A } \\ \text { N/A } \\ \text { N/A } \\ 250 \mathrm{lb} . \end{gathered}$ | 100 lb . N/A 250 lb . <br> N/A 600 lb . |
| Tool Installed |  |  <br> GTS <br> GTH <br> GS4H <br> GS4EH <br> STS2 <br> STH2 <br> ST2EH <br> STHV <br> PTS <br> PPTS <br> PPTEH | $\begin{gathered} \text { GTS } \\ \text { GTH } \\ \text { GS4H } \\ \text { GS4EH } \\ \text { STS2 } \\ \text { STH2 } \\ \text { ST2EH } \\ \text { STHV } \\ \text { PTS } \\ \text { PPTS } \\ \text { PPTEH } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { GTS } \\ \text { GTH } \\ \text { GS4H } \\ \text { STS2 } \\ \text { STH2 } \\ \text { ST2EH } \\ \text { STHV } \\ \text { PTS } \\ \text { PPTS } \\ \text { PPTEH } \end{array}$ | GTS GTH GS4H STS2 STH2 ST2EH STHV PTS PPTS PPTEH | $\begin{gathered} \hline \text { GTS } \\ \text { GTH } \\ \text { GS4H } \\ \text { STS2 } \\ \text { STH2 } \\ \text { ST2EH } \\ \text { STHV } \\ \text { PTS } \\ \text { PPTS } \\ \text { PPTEH } \end{gathered}$ | $\begin{gathered} \hline \text { GTS } \\ \text { GTH } \\ \text { GS4H } \\ \text { STS2 } \\ \text { STH2 } \\ \text { ST2EH } \\ \text { STHV } \\ \text { PTS } \\ \text { PPTS } \\ \text { PPTEH } \end{gathered}$ | $\begin{gathered} \text { GTS } \\ \text { GTH } \\ \text { GS4H } \\ \text { STS2 } \\ \text { STH2 } \\ \text { ST2EH } \\ \text { STHV } \\ \text { PTS } \\ \text { PPTS } \\ \text { PPTEH } \end{gathered}$ | GTS <br> GTH <br> GS4H <br> STS2 <br> STH2 <br> STHV <br> PTS <br> PPTS | GTS GTH <br> GS4H STS2 STH2 PTS PPTS | GTS <br> GTH <br> GS4H <br> STS2 <br> STH2 <br> PTS <br> PPTS | GTS <br> GTH <br> GS4H <br> STS2 <br> STH2 <br> PTS <br> PPTS | GTS <br> GTH <br> GS4H <br> STS2 <br> STH2 <br> PTS <br> PPTS | $\begin{gathered} \text { GTH } \\ \text { GS4H } \\ \text { GS4EH } \\ \text { ST2EH } \end{gathered}$ | GS4MT <br> ST2MT <br> PPTMT <br> HTMT |

NOTE 1: ASTM D638
NOTE 2: Telcordia TR-TSY-000789
NOTE 3: ASTM E8
NOTE 4: See page 68 - Temperature
NOTE 5:Estimated
NOTE 6: (-321) goes to $1700^{\circ}\left(923^{\circ} \mathrm{C}\right)$
NOTE 7: After installation

## Pandult ${ }^{\circ}$ <br> Chemical Resistance

## TABLE C

## Chemical Resistance

Many factors combine to determine the useful life of a cable tie material and none is as important as chemical exposure. Various chemicals will have different effects on plastics depending on such things as chemical concentrations, temperature, stress and ultraviolet light. Table C is an excellent guideline for the selection of the best cable tie material. It should be noted that the exposure temperature for this chemical resistance chart is $70^{\circ} \mathrm{F}$.


Resistance of PANDUIT ${ }^{\circledR}$ Cable Tie Materials to Chemical Attack at $70^{\circ} \mathrm{F}$

- = Not Tested

E = Excellent
S = Satisfactory
B = Slight Attack
U = Attacked
${ }^{1}$ (NOTE 1$)=$ Pitting occurs under some conditions ${ }^{2}$ (NOTE 2) $=$ Attack may occur if sulfuric acid present
Aq. = Aqueous
C.S. = Cold Saturated

| Agent | Percent Concentration | Nylon 6.6 | $\begin{gathered} \text { Nylon } \\ 12 \\ \hline \end{gathered}$ | Polypropylene | TEFZEL*** | HALAR** | $304$ <br> Stainless Steel | 316 <br> Stainless Steel |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Acetaldehyde | 90 | S | - | B | E | E | - | - |
| Acetic Acid | 97 | U | U | E | E | E | E | E |
| Acentic Acid | 10 | B | S | E | E | E | E | E |
| Acetic Anyhdride | 90 | - | S | E | E | E | E | E |
| Acetone | 100 | E | E | E | E | E | E | E |
| Acetophenone | 100 | - | - | S | E | E | E | E |
| Acetylene | 100 | - | - | E | E | E | E | E |
| Aluminum Chloride | 10 | S | E | E | E | E | U | B |
| Aluminum Fluoride | 10 | S | E | E | E | E | U | B |
| Aluminum Hydroxide | Aq. C.S. | - | E | E | E | E | E | E |
| Aluminum Potassium Sulfate | 10 | S | E | E | E | E | E ${ }^{1}$ | E |
| Ammonia | All | - | E | E | E | E | E | E |
| Ammonium Carbonate | 1 to 5 | - | E | - | E | E | E | E |
| Ammonium Chloride | 10 to 25 | U | E | E | E | E | $\mathrm{E}^{1}$ | E |
| Ammonium Hydroxide | 10 | E | - | - | E | E | - | - |
| Ammonium Nitrate | 100 | - | E | E | E | E | E | E |
| Ammonium Sulfate | 10 | - | E | E | E | E | E ${ }^{1}$ | $\mathrm{E}^{1}$ |
| Amyl Acetate | 100 | - | - | B | E | E | E | E |
| Aniline | 100 | - | S | E | E | E | E | E |
| Antimony Trichloride | All | U | - | E | E | E | E | E |
| Arsenic Acid | 1 to 80 | - | - | E | E | E | E | E |
| Barium Carbonate | All | - | E | E | E | E | E | E |
| Barium Chloride | All | - | E | E | E | E | E ${ }^{1}$ | E |
| Barium Sulfate | All | - | E | E | E | E | E | E |
| Barium Sulfide | All | - | E | E | E | E | E | E |
| Benzene | 100 | E | E | B | E | E | E | E |
| Benzoic Acid | 100 | U | E | E | E | E | E | E |
| Benzoyl Chloride | 100 | - | - | B | E | E | - | - |
| Benzyl Alcohol | 100 | - | - | E | E | E | - | - |
| Boric Acid | All | U | E | E | E | E | S | - |
| Bromine | 100 | U | U | U | E | E | U | U |
| Butadiene | 100 | - | - | B | E | E | E | E |
| Butane | 100 | - | E | E | E | E | E | E |
| Butanediol | 100 | - | - | E | E | E | - | - |
| Butyl Acetate | 100 | - | E | B | E | E | - | - |
| N. Butyl Alcohol | 100 | - | E | E | E | E | E | E |
| Butyl Phthalate | 100 | - | - | E | E | E | - | - |
| Butyraldehyde | 100 | - | - | E | E | E | - | - |
| Butyric Acid | 10 to 100 | U | - | E | E | E | E | E |
| Calcium Carbonate | Aq. C.S. | - | - | E | E | E | E | E |
| Calcium Chlorate | Aq. C.S. | - | - | E | E | E | E | E |
| Calcium Chloride | 5 | B | E | E | E | E | $\mathrm{E}^{1}$ | $\mathrm{E}^{1}$ |

## Table C - (cont.)

Resistance of PANDUIT ${ }^{\circledR}$ Cable Tie Materials to Chemical Attack at $70^{\circ} \mathrm{F}$

| Agent | Percent Concentration | Nylon $6.6$ | $\begin{gathered} \text { Nylon } \\ 12 \end{gathered}$ | Polypropylene | TEFZEL*** | HALAR** | 304 Stainless Steel Stee | 316 Stainless Steel Stee |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Calcium Hydroxide | 50 | - | - | E | E | E | E | E |
| Calcium Hypochlorite | 2 | U | - | E | E | E | E ${ }^{1}$ | E ${ }^{1}$ |
| Calcium Nitrate | 50 | - | E | E | E | E | - | - |
| Calcium Sulfate | 2 | B | - | E | E | E | E | E |
| Carbon Tetrachloride | 100 | E | E | U | E | E | E | E |
| Carbon Tetrachloride | Aq. 10 | - | - | - | - | E | B | E ${ }^{1}$ |
| Chlorine | Dry | - | U | U | E | E | B | B |
| Chlorine | Wet | - | U | B | E | E | U | U |
| Chloroacetic Acid | 10 to 50 | U | - | E | E | E | U | B |
| Chlorobenzene | 100 | - | B | E | E | E | - | - |
| Chloroform | 100 | E | B | B | E | E | E | E |
| Chlorosulphonic Acid | 10 to 100 | U | U | U | S | E | U | U |
| Chromic Acid | 10 to 50 | U | U | E | E | E | B | B |
| Citric Acid | 10 to 50 | S | S | E | - | E | E | E |
| Copper Chloride | 1 to 10 | U | - | E | E | E | $\mathrm{E}^{1}$ to U | $\mathrm{E}^{1}$ to $\mathrm{B}^{\prime}$ |
| Copper Cyanide | Aq. C.S. | - | - | E | E | E | E | E |
| Copper Nitrate | 50 | - | - | E | E | E | E | E |
| Cresol | 100 | U | U | - | E | E | E | E |
| Crotonaldehyde | 100 | - | - | E | E | E | - | - |
| Cyclohexane | 100 | - | E | B | E | E | E | - |
| Cyclohexanol | 100 | - | E | E | E | E | E | - |
| Cyclohexanone | 100 | - | E | B | E | E | E | - |
| Dibutyl Phthalate | 100 | - | - | E | E | E | - | - |
| Dichloroethane | 100 | - | - | E | - | E | E | E |
| Dichloroethylene | 100 | - | - | B | E | E | - | - |
| Diesel Fuel | 100 | - | E | B | E | E | E | E |
| Diethyl Ether | 100 | - | E | E | E | E | E | E |
| Diglycolic Acid | Aq.C.s. | - | - | E | E | E | - | - |
| Disobutyl Ketone | 100 | - | - | E | E | E | - | - |
| Dimethyl Amine | 100 | - | - | E | E | E | - | - |
| Dimethyl Formamide | 100 | - | E | E | E | E | E | - |
| Dimethyl Sulfate | 100 | - | - | B | E | E | - | - |
| Dioctyl Phthalate | 100 | - | - | E | E | E | E | - |
| 1, 4-Dioxane | 100 | - | S | B | E | E | E | - |
| Ethyl Acetate | 100 | E | E | S | E | E | E | E |
| Ethyl Alcohol | 100 | E | E | E | E | E | E | E |
| Ethyl Chroride | 100 | - | - | B | E | E | E | E |
| Ethylene Chloride | 100 | E | B | B | E | E | E | E |
| Ethylene Glycol | 100 | E | E | E | E | E | E | E |
| Ethylene Oxide | 100 | - | - | B | E | E | - | - |
| Fatty Acids | 100 | - | - | E | E | E | - | - |
| Ferric Chloride | 50 | U | - | E | E | E | U | U |
| Ferric Hydroxide | All | - | - | E | E | E | E | E |
| Ferric Nitrate | All | - | - | E | E | E | E | E |
| Ferrous Chloride | Aq. C.S. | U | - | E | E | E | U | B |
| Ferrous Sulfate | 10 | - | - | E | E | E | $\mathrm{E}^{1}$ | E |
| Fluorine (Dry) | 100 | - | - | U | E | - | U | U |
| Formaldehyde | 40 | E | S | E | E | E | E ${ }^{1}$ | E |
| Formic Acid | All | U | U | E | E | E | E | E |
| Freons | 100 | E | - | - | E | E | - | - |
| Fuel Oil | 100 | - | E | - | E | E | E | E |
| Furfural | 100 | E | - | - | E | E | E | E |
| Gallic Acid | Aq. C.S. | - | - | - | E | E | E | E |
| Gasoline | 100 | E | - | B | E | E | E | E |
| Glycerin | 100 | - | E | E | - | E | E | E |

Chemical Resistance
Table C - (cont.)
Resistance of PANDUIT ${ }^{\circledR}$ Cable Tie Materials to Chemical Attack at $70^{\circ} \mathrm{F}$

| Agent | Percent Concentration | Nylon 6.6 | $\begin{gathered} \text { Nylon } \\ 12 \end{gathered}$ | Polypropylene | TEFZEL*** | HALAR** | $\begin{gathered} \hline 304 \\ \text { Stainless } \\ \text { Steel } \end{gathered}$ | $\begin{gathered} \hline 316 \\ \text { Stainless } \\ \text { Steel } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Glycolic Acidb | 40 | U | - | E | E | E | - | - |
| Heptane | 100 | - | E | E | E | E | E | E |
| Hexane | 100 | - | E | E | E | E | E | E |
| Hydrobromic Acid | All | U | U | E | E | E | U | U |
| Hydrochloric Acid | All | U | U | E | E | E | U | U |
| Hydrocyanic Acid | All | - | U | E | E | E | B | B |
| Hydrofluoric Acid | All | U | U | E | E | E | U | U |
| Hydrofluorosiliac Acid | 30 | - | U | E | E | E | U | U |
| Hydrogen Peroxide | 30 | U | S | S | E | E | S | E |
| Hydrogen Sulfide | Dry | - | - | E | E | E | E | E |
| Hydrogen Sulfide | Wet | U | - | E | E | E | B ${ }^{2}$ | $\mathrm{E}^{2}$ |
| Hydroquinone | 100 | - | - | E | E | E | - | - |
| Iodine | 100 | - | - | E | E | E | U | U |
| lodoform | 100 | - | - | - | E | E | E | E |
| Isopropyl Alcohol | 100 | E | E | E | E | E | E | E |
| Jet Fuel | 100 | E | - | E | E | E | E | E |
| Lactic Acid | 10 | E | S | E | E | E | E | E |
| Lanolin | 10 | E | E | E | E | E | E | E |
| Lead Acetate | Aq. C.s. | - | - | E | E | E | E | E |
| Linseed Oil | 100 | E | E | E | E | E | E | E |
| Magnesium Carbonate | Aq. C.S. | - | E | E | E | E | E | E |
| Magnesium Chloride | Aq. C.S. | B | E | E | E | E | E | E ${ }^{1}$ |
| Magnesium Nitrate | Aq. C.S. | - | E | E | E | E | E | E |
| Maleic Acid | 100 | - | - | E | E | E | - | - |
| Malic Acid | Aq. C.S. | - | - | E | E | E | E | E |
| Mercuric Chloride | Dilute | - | E | E | E | E | U | U |
| Mercury | 100 | - | E | E | E | E | E | E |
| Methyl Alcohol | 100 | E | E | E | E | E | E | E |
| Methyl Bromide | 100 | - | - | U | E | E | - | - |
| Methyl Chloride | 100 | - | - | B | E | E | - | E |
| Methyl Chloroform | 100 | E | - | B | E | E | - | - |
| Methyl Ethyl Ketone | 100 | - | E | B | E | E | E | E |
| Methyl Isobutyl Ketone | 100 | E | - | B | E | E | E | E |
| Methylene Chloride | 100 | B | U | B | E | E | E | E |
| Naptha | 100 | - | - | E | E | E | E | E |
| Naphthalene | 100 | - | S | E | E | E | E | E |
| Nickel Chloride | Aq. C.S. | - | E | E | E | E | E' | E' |
| Nickel Sulfate | Aq. C.S. | - | E | E | E | E | E' | E |
| Nitric Acid | 10 to 30 | U | U | E | E | E | E | E |
| Nitric Acid | 30 to 68 | U | U | U | S | E | E | E |
| Nitro Benzene | 100 | - | B | B | E | E | E | E |
| Nitro Methane | 100 | E | - | - | E | E | - | - |
| Nitrous Acid | 5 | - | - | - | E | E | E | E |
| Oleic Acid | 100 | - | B | E | E | E | E | E |
| Oxalic Acid | 10 | - | B | E | E | E | E | E |
| Oxygen | All | - | - | E | E | E | - | - |
| Paraffin | 100 | E | E | E | E | E | E | E |
| Perchlorethylene | 100 | - | - | B | E | E | E | E |
| Petroleum Ether | 100 | - | E | E | E | E | E | E |
| Phenol | 90 | U | U | E | E | E | E | E |
| Phosphoric Acid | 10 | U | U | E | E | E | E | E |
| Phosphorus Pentoxide | 100 | - | U | E | E | E | - | - |
| Phosphorus Trichloride | 100 | - | U | B | E | E | E | E |
| Phthalic Acid | 50 | - | - | B | E | E | E | E |
| Pictic Acid | 1 | - | - | E | E | E | E | E |

## PANDUIT

Table C - (cont.)
Resistance of PANDUIT ${ }^{\circledR}$ Cable Tie Materials to Chemical Attack at $70^{\circ} \mathrm{F}$

| Agent | Percent Concentration | Nylon 6.6 | $\begin{gathered} \text { Nylon } \\ 12 \\ \hline \end{gathered}$ | Polypropylene | TEFZEL*** | HALAR** | $304$ <br> Stainless Steel | $316$ <br> Stainless Steel |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Potassium Borate | 1 | - | - | E | E | E | - | - |
| Potassium Bromide | Aq. C.S. | - | - | E | E | E | E ${ }^{1}$ | E ${ }^{1}$ |
| Potassium Carbonate | Aq. C.S. | - | B | E | E | E | E | E |
| Potassium Chlorate | Aq. C.S. | - | S | E | E | E | E | E |
| Potassium Chloride | 5 | - | E | E | E | E | $\mathrm{E}^{1}$ | $\mathrm{E}^{1}$ |
| Potassium Dichromate | Aq. C.S. | - | U | E | E | E | E | E |
| Potassium Ferrocyanide | 25 | - | - | E | E | E | E | E |
| Potassium Hydroxide | 30 | B | - | E | E | E | B | B |
| Potassium lodide | Aq. C.S. | - | E | E | - | E | E | E |
| Potassium Nitrate | Aq. C.S. | - | E | E | E | E | E | E |
| Potassium Perchlorate | 1 | - | - | E | E | E | - | - |
| Potassium Permanganate | 5 | U | U | E | E | E | E | E |
| Potassium Persulfate | All | - | - | E | E | E | - | - |
| Potassium Sulfate | Aq. C.S. | - | E | E | E | E | E | E |
| Potassium Sulfide | Aq. C.S. | - | - | E | E | E | E | E |
| Propionic Acid | 50 | - | - | E | E | E | - | - |
| Propyl Alcohol | 100 | E | - | E | E | E | E | E |
| Pyridine | 100 | - | E | B | E | E | B | B |
| Sea Water | 100 | - | E | E | E | E | $\mathrm{E}^{1}$ | E |
| Silver Chloride | Aq. C.S. | - | E | E | E | E | U | U |
| Silver Nitrate | 10 | - | E | E | E | E | E | E |
| Sodium Acetate | Aq. C.S. | E | - | E | E | E | $\mathrm{E}^{1}$ | E |
| Sodium Benzoate | Aq. C.S. | - | - | E | E | E | - | - |
| Sodium Bicarbonate | Aq. C. S. | E | E | E | E | E | E | E |
| Sodium Bisulfate | 10 | - | - | E | E | E | E | E |
| Sodium Bisulfite | Aq. C.S. | - | S | E | E | E | E | E |
| Sodium Borate | Aq. C.S. | - | - | E | E | E | E | E |
| Sodium Carbonate | 2 | E | E | E | E | E | E | E |
| Sodium Chlorate | 25 | - | B | E | E | E | E | E |
| Sodium Chloride | 10 | E | E | E | E | E | $\mathrm{E}^{1}$ | $\mathrm{E}^{1}$ |
| Sodium Chromate | Aq. C.S. | U | - | E | E | E | E | E |
| Sodium Fluoride | 5 | - | - | E | E | E | $\mathrm{E}^{1}$ | E ${ }^{1}$ |
| Sodium Hydroxide | 10 | E | E | E | E | E | E | E |
| Sodium Hypochlorite | 5 | S | B | E | E | E | B ${ }^{1}$ | $\mathrm{E}^{1}$ |
| Sodium Hyposulfite | Aq. C.S. | - | - | - | E | E | E | E |
| Sodium Nitrate | 5 | E | E | E | E | E | E | E |
| Sodium Nitrite | Aq. C.S. | - | B | E | E | E | E | E |
| Sodium Perborate | Aq. C.S. | - | S | E | E | E | - | B |
| Sodium Perchlorate | 10 | - | - | - | E | E | E | E |
| Sodium Phosphate | 5 | - | E | E | E | E | E | E |
| Sodium Sulfate | 5 | - | E | E | E | E | E | E |
| Sodium Sulfide | 5 | - | E | E | E | E | E ${ }^{1}$ | E |
| Sodium Thiosulfate | 25 | - | E | E | E | E | $\mathrm{E}^{2}$ | $\mathrm{E}^{2}$ |
| Stannic Chloride | Aq. C.S. | U | - | E | E | E | U | B |
| Stannous Chloride | Aq. C.S. | - | E | E | E | E | B | S |
| Stearic Acid | 100 | - | B | E | E | E | E | E |
| Succinic Acid | 100 | - | S | E | E | E | - | - |
| Sulfur | 100 | - | E | E | E | E | S | B |
| Sulfer Dioxide | All | U | - | B | E | E | E | E |
| Sulfuric Acid | 5 | U | B | E | E | E | B | E |
| Sulfuric Acid | 50 | U | U | E | E | E | U | B |
| Sulfuric Acid | Concentrate | U | U | B | E | E | B | B |

Table C - (cont.)

Resistance of PANDUIT ${ }^{\circledR}$ Cable Tie Materials to Chemical Attack at $70^{\circ} \mathrm{F}$

| Agent | Percent Concentration | Nylon 6.6 | Nylon 12 | Polypropylene | TEFZEL** | HALAR** | $304$ <br> Stainless Steel | 316 Stainless Steel |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sulfurous Acid | 10 | E | - | E | E | E | $B^{1}$ | $\mathrm{E}^{1}$ |
| Tannic Acid | 10 | - | E | E | E | E | E | E |
| Tartaric Acid | 50 | - | S | E | E | E | E | E |
| Tetrahydrofuran | 100 | - | B | B | E | E | E | E |
| Toluene | 100 | E | E | B | E | E | E | E |
| Trichloroacetic Acid | 10 | U | - | S | E | E | U | U |
| Trichloroethylene | 100 | - | U | B | E | E | $\mathrm{E}^{1}$ | $\mathrm{E}^{1}$ |
| Turpentine | 100 | - | S | U | E | E | E | E |
| Urea | 50 | - | E | E | E | E | - | - |
| Vinyl Acetate | 100 | - | - | E | E | E | - | - |
| Xylene | 100 | E | - | U | E | E | E | E |
| Zinc Chloride | 70 | U | E | E | E | E | E | E |
| Zinc Nitrate | Aq. C.S. | - | E | E | E | E | E | E |
| Zinc Sulfate | Aq. C.S. | - | E | E | E | E | E | E |



The owner-operator concept makes employees responsible for their areas of the manufacturing process.


Operator inspection is an important PANDUIT ${ }^{\circledR}$ TQA procedure.


Members of ETQ Teams search for ways to improve product quality.

PANDUIT ${ }^{\circledR}$ Total Quality Assurance (TQA) initiative spans more than two decades. During that time we have furnished quality training to all levels of our employees, enabling them to participate in our Excellence Through Quality (ETQ) program of continuous quality improvement.

Our quality policies and major improvement projects are chosen and monitored by the Corporate Process Improvement Committee. This group is comprised of the top management representatives from each of PANDUIT® ${ }^{\circledR}$ business segments.

PANDUIT ${ }^{\circledR}$ Engineering and Manufacturing groups work together to design quality into the products and the production processess. Service quality is equally important and our customer service group takes the lead in assuring superior performance from the supporting departments.

Our high degree of product and service quality is due in part to heavy investment in technology by PANDUIT ${ }^{\circledR}$. However, people are really the foundation for our quality achievements. We believe in Quality at the Source.

By introducing Quality at the Source throughout the company, we have provided the training, supplied the necessary equipment and moved the responsibility for performance to the employees doing the work. Their pride in product and service is demonstrated every day in how we serve our customers.

PANDUIT ${ }^{\circledR}$ ISO 9001 and QS-9000 registrations serve notice to our customers that we support their business through our reliable quality systems. When necessary to meet the needs of specific industries, we incorporate additional quality requirements in our systems.

At PANDUIT ${ }^{\circledR}$, our commitment is Total Quality Assurance.

## PANDUIT ${ }^{\circledR}$ Products are on Display at Your Local PANDUIT ${ }^{\circledR}$ Distributor



Your local PANDUIT ${ }^{\circledR}$ Distributor carries top quality PANDUIT ${ }^{\circledR}$ products and offers many advantages and services to help lower your transaction costs:

- Local stock for fast delivery and "Just-InTime" requirements. Reduces your inventory costs.
- One stop for all your electrical needs because he stocks products from many manufacturers. One purchase order, less administrative and freight costs.
- Well trained personnel to answer any questions and to make sure you have the right product for the right job.


## PANDUIT ${ }^{\oplus}$ Stainless Steel Cable Ties and Accessories

## Pan-Steel ${ }^{\oplus}$ Self-Locking Stainless Steel Ties



Ties -
Standard Sizes


Standard, Light Heavy and Heavy

PANDUIT ${ }^{\oplus}$ No-SLIP ${ }^{m " 1}$ line of Stainless Steel Self-Locking Ties have a unique low-insertion force head design that keeps the tie locked, before or after tightening, regardless of its orientation or how tightly it is installed. With features like high strength, corrosion resistance, extreme temperature tolerance, fully rounded edges and special styles, these stainless steel ties are an excellent choice for a wide variety of applications and are designed to install easily for long service life under adverse conditions. All ties can be installed using PANDUIT ${ }^{\text {® }}$ standard installation tools, or simply installed by hand.

- Fully rounded edge design eliminates sharp edges for added protection and safety
- Available in a loop tensile strength of 200 lbs . for standard cross-section ties, 250 lbs. for light heavy cross section ties and 450 lbs . for heavy cross section ties
- Superior strength for most bundling applications
- Available in type 304 and 316 stainless steel which provides excellent resistance to temperature extremes, corrosion, weather and UV radiation
Banding System

- For applications that require bundling various bundle diameters
- Provides versatility on job sites for any diameter with minimum inventory
- 304 Stainless Steel (316 available)


## Wave-Ty ${ }^{\text {TM }}$ Superior Grip Steel Ties

- Loop tensile strength of 450 lbs . Provides superior strength for increased performance and reliability
- Available in 304 and 316 stainless steel
- The unique wave-form spring maintains a high tension grip on non-resilient objects; provides the strength of steel and the high tension of a steel spring

Coated Stainless Steel Ties



- For communication and electrical cable
- The strength of steel, the protection of nylon; the

| WA VE-TY ${ }^{\text {TM }}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MLT2.7WH-LP | $\begin{aligned} & \hline 2.70 \\ & (69) \end{aligned}$ | $\begin{aligned} & 10.2 \\ & (259) \end{aligned}$ | $\begin{gathered} .31 \\ (7.9) \end{gathered}$ | $\begin{gathered} 450 \\ (2000) \end{gathered}$ | 50 | 250 |
| MLT4WH-LP | $\begin{gathered} 4.00 \\ (102) \end{gathered}$ | $\begin{gathered} 14.2 \\ (360) \end{gathered}$ |  |  | 50 | 250 |
| MLT6WH-LP | $\begin{aligned} & 6.00 \\ & (152) \end{aligned}$ | $\begin{gathered} 20.4 \\ (520) \end{gathered}$ |  |  | 50 | 250 |
| MLT8WH-LP | $\begin{array}{r} 8.00 \\ (203) \\ \hline \end{array}$ | $\begin{aligned} & 26.8 \\ & (679) \end{aligned}$ |  |  | 50 | 250 |
| MLT10WH-LP | $\begin{aligned} & 10.00 \\ & (254) \end{aligned}$ | $\begin{gathered} 33.0 \\ (838) \end{gathered}$ |  |  | 50 | 250 |

*Order the number of ties required in multiples of standard package quantities.

NYLON 11 COATED 316 STAINLESS STEEL

| MLTC2H-LP316 | 2.00 (50) | 7.9 (201) | $\begin{gathered} .31 \\ (7.9) \end{gathered}$ | $\begin{gathered} 250 \\ (1112) \end{gathered}$ | 50 | 250 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MLTC4H-LP316 | 4.00 (102) | 14.2 (360) |  |  | 50 | 250 |
| MLTC6H-LP316 | 6.00 (152) | 20.4 (520) |  |  | 50 | 250 |
| MLTC8H-LP316 | 8.00 (203) | 26.8 (679) |  |  | 50 | 250 |
| MLTC10H-LP316 | 10.00 (254) | 33.0 (838) |  |  | 50 | 250 | nylon coating provides fully rounded plastic edges to protect cables

- Available with a loop tensile strength of 250 lbs .
- Base metal is 316 grade stainless steel for excellent resistance to temperature extremes, corrosion, weather, chemicals, salt sprays and UV radiation


## PANDUIT ${ }^{\oplus}$ Stainless Steel Mounts and Marking Products

Installation Tools


- Complete line of manual and pneumatic installation tools speeds installation
- Side-entry of cable ties into the tools, makes for quick and easy installation
- Automatic tension and cut-off capabilities available on select models
- High reliability, low maintenance, long life

| Part Number | Description | Std. <br> Pkg. <br> Qty.* |
| :--- | :--- | :---: |
| PPTMT | Pneumatic-operated, tool controlled tension and cut-off <br> for production applications. | 1 |
| GS4MT | MIL approved. Hand-operated, tool controlled tension <br> and cut-off. | 1 |
| K4M-BLD | Replacement cutter blade for GS4MT. | 1 |
| K4MTG | Replacement tension gripper for GS4MT. | 1 |
| ST2MT | Hand-operated, installer controlled tension and cut-off. | 1 |
| KT2MG | Replacement tension gripper for ST2MT. | 1 |
| HTMT | Used to tension and coil the tail of tie. | 1 |

*Order the number of tools required in multiples of standard package quantities.

## PaN-Steel ${ }^{\circledR}$ Accessories



Cushion Sleeve

- Makes rigid bundles resilient, provides tighter tensioning
- Non-conductive insulator between clamp and bundle

|  | For Clamp <br> Width <br> In. $\mathbf{m m}$ | Sleeve <br> Width <br> In. $(\mathbf{m m})$ | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: |
| Part Number | $.18(4.6)$ | $.33(8.4)$ | 1 | - |
| PCSS-B-CR | $.31(7.9)$ | $.47(12)$ | 1 | - |

Bulk Pkg. -CR $=100$ ' reel
*Order the number of reels required in multiples of standard package quantities.

- Material: black, neoprene


## Stainless Steel Mounts



Stainless Mount MTM1H-C


Push-Wing Mount MPWM-H56-Q


Two-Way Mount
Mount

- Low profile
- Utilizes only one hole for mounting
- Material: 304 Stainless Steel

| Part Number | For MLT Tie Width In (mm) | Mounting Method | Hole Diameter In. (mm) | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MTM1 H-C | $\begin{gathered} .18(4.6) \\ \text { thru } \\ .31(7.9) \end{gathered}$ | \#8 (4) Screw | . 18 (4.6) | 100 | 1000 |
| MTM1 H1 0-C |  | \#10 (5) Screw | . 21 (5.4) | 100 | 1000 |
| MTM1H25-C |  | 1/4" (6) Screw | . 28 (7.1) | 100 | 1000 |


| Part Number | For MLT <br> Tie Width <br> In. (mm) | Mounting <br> Method <br> In. (mm) | Panel <br> Thickness <br> In. (mm) | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: |
| MPWM-H56 | $.18(4.6)$ <br> thru <br> $.31(7.9)$ | Inserted into <br> pre-drilled hole <br> $5 / 16(8)$ | $.031(.8)-$ <br> $.094(2.4)$ | 25 | 250 |
| MBM-H25-Q | .18 <br> $(4.6)$ | Inserted <br> into pre-drilled <br> hole .250 (6.4) | $.031(.8)-$ <br> $.125(3.2)$ | 25 | 250 |
| MTM2H-Q | .18(4.6) thru <br> $.31(7.9)$ | \#8 (4) Screw | - | 25 | 250 |
| MTMBH-Q | $.18(4.6)$ <br> thru <br> $.31(7.9)$ | Pre-drill hole size <br> Max. size <br> $.625(15.9)$ | Up to .500 max. <br> $(12.7)$ | 25 | 250 |

Material: 304 Stainless Steel
*Order the number of pieces required in multiples of standard package quantities.

## MTM2H-Q

Stainless Steel Marking Products
Use Pan-Steel ${ }^{\oplus}$ Ties or Stainless Steel Strapping to provide identification in harsh environments. The ties and strapping can be stamped with available tooling or custom stamped upon request. Marker plates and metal embossed tape are also available.

Marker Plates and Tags


- Attached with Pan-Steel ${ }^{\circledR}$ Ties
- 304, 316 stainless steel, brass and aluminum available
- Can be used as a flag or wrap
- Various sizes and shapes available; round, square, rectangular, etc.
Part numbers available upon request
- Can be custom marked by PANDUIT ${ }^{\oplus}$. See page 79 for details

| Part Number | Used with Clamp/Tie Width In. (mm) | Size - In. (mm) |  | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Width | Length |  |  |
| MMP350-C | . 18 (4.6) | . 75 (19) | 3.50 (89) | 100 | 1000 |
| MMP350W38-C | . 18 (4.6) | . 38 (10) | 3.50 (89) | 100 | 1000 |
| MMP350H-C | $\begin{gathered} .18(4.6) \text { thru } \\ .31(7.9) \end{gathered}$ | $\begin{aligned} & \hline .75 \\ & (19) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 3.50 \\ & (89) \end{aligned}$ | 100 | 1000 |

*Order the number of pieces required in multiples of standard package quantities.

## Metal Embossed Tape System



- Hand operated embosser with $3 / 16$ " height characters (approx. 6 characters/inch)
- Hole punch ( $3 / 16$ " dia.) allows tape to be used as a wrap or flag marker, held on with Pan-Steel ${ }^{\bullet}$ Ties
Characters include:

| A | B | C | D | E | F | G | H | I | J | K | L | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | . | 1 | - |  |  |


| Part Number | Std. <br> Description | Std. <br> Ctg. <br> Qty.* | Qty. |
| :--- | :--- | :---: | :---: |
| MEHT | Embosser, carrying case, (1) roll each of <br>  <br>  META and METS4 tape. | 1 | - |

TAPE

| META-X | $1 / 2^{\prime \prime} \times 16^{\prime}$. roll Aluminum tape. | 10 | 50 |
| :--- | :--- | :--- | :--- |
| METS3-X | $1 / 2^{\prime \prime} \times 21^{\prime}$ roll Stainless Steel (316 Grade). | 10 | 50 |
| METS4-X | $1 / 2^{\prime \prime} \times 21^{\prime}$ roll Stainless Steel (304 Grade). | 10 | 50 |

*Order the number of pieces required in multiples of standard package quantities.

|  | Std. <br> Part Number | Description <br> Qty. |
| :--- | :--- | :---: |
| IMP094 | Press with 3/32" character wheel. | 1 |
| IMP125 | Press with 1/8" character wheel. | 1 |
| IMP187 | Press with 3/16" character wheel. | 1 |
| MWK094 | 3/32" character wheel kit. | 1 |
| MWK125 | 1/8" character wheel kit. | 1 |
| MWK187 | 3/16" character wheel kit. | 1 |
| IMP-FIX | Interchangeable fixture for MMP172 series. | 1 |
|  | MT series and the aluminum marker plates. |  |

*Order the number of pieces required in multiples of standard package quantities.

Indenter Press


- For medium volume marking of ties, strapping or plates
- Manual operation with automatic indexing
- Interchangeable character wheel makes the press versatile and economical
- Press includes fixturing device to provide high quality marking
Characters include:

| A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| O | P | Q | R | S | T | U | V | W | X | Y | Z |  |  |
| $\&$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | . | I | - |

Custom Marking Capabilities on PANDUIT ${ }^{\oplus}$ PAN-Steel ${ }^{®}$ Stainless Steel Cable Ties, Strapping, Metal Marker Plates/Tags Anodized Aluminum Locks.*


## Laser Marking System:

- Used on all stainless steel cable ties, strapping, metal marker plates/tags and anodized aluminum locks
- Graphics capability and BOLD block letters
- Upper and lower case character capability
- Alphanumeric and sequential numbering ability


## Character Sizes ** Available:

- 1/8" (3.18mm)
- $1 / 4^{\prime \prime}(6.35 \mathrm{~mm})$
- $3 / 16$ " $(4.77 \mathrm{~mm})$
- $5 / 16$ " ( 7.94 mm )
- $1 / 2^{\prime \prime}$ ( 12.7 mm )

PANDUIT ${ }^{\oplus}$ stainless steel cable ties, strapping, stainless steel, brass and aluminum marker plates/tags and anodized aluminum locks can be custom marked for identification of equipment, cables, hoses, pipes, conduit, etc. in petrochemical plants, power plants, pulp and paper mills, breweries, and many other applications. PANDUIT® in-house computer controlled custom marking systems provide sharp, crisp, high quality legends. Sequential numbering for serialization is available.

[^3]

[^4]
## Embossing System:

- Used on metal marker plates and tags which are a maximum of $.020^{\prime \prime}(0.5 \mathrm{~mm})$ thick
- Excellent for applications that are exposed to occasional painting and excessive dirt
- Upper case "raised" character capability only
- Alphanumeric and sequential numbering ability


## Character Sizes ** Available:

- $1 / 8$ " (3.18mm)
- $3 / 16$ " ( 4.77 mm )


## PANDUIT ${ }^{\oplus}$ Stainless Steel Strapping System

## Stainless Steel

Strapping

- Reduces installation time and leaves no sharp edges
- Burr-free sides
- 304 Stainless Steel
- Designed for use in critical applications where radiation, weathering, corrosion and temperature extremes are a concern
- Temperature range: $-112^{\circ} \mathrm{F}\left(-80^{\circ} \mathrm{C}\right)$ to $1000^{\circ} \mathrm{F}\left(538^{\circ} \mathrm{C}\right)$
- Fast and reliable alternative to wing seals

| Part Number | Thickness in. (mm) | Width <br> in. (mm) | Min. Loop Tensile Strength lbs. (N) | Max. Bundle Dia. <br> in. (mm) | Length <br> in. (mm) | Recommended PANDUIT ${ }^{\text {® }}$ Installation Tool Part No. | Std. Pkg. Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MS2W38T15-L4 | $\begin{aligned} & .015 \\ & (.38) \end{aligned}$ | $\begin{gathered} .38 \\ (9.5) \end{gathered}$ | $\begin{gathered} 500 \\ (2225) \end{gathered}$ | 2.00 (51) | 11.8 (300) | BT1HT or BT2MS75 | 50 | 250 |
| MS4W38T15-L4 |  |  |  | 4.00 (102) | 18.0 (457) |  | 50 | 250 |
| MS6W38T15-L4 |  |  |  | 6.00 (152) | 24.4 (620) |  | 50 | 250 |
| MS8W38T15-L4 |  |  |  | 8.00 (203) | 30.7 (780) |  | 50 | 250 |
| MS10W38T15-L4 |  |  |  | 10.00 (254) | 37.0 (940) |  | 50 | 250 |
| MS4W50T15-L4 | $\begin{aligned} & .015 \\ & (.38) \end{aligned}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} 700 \\ (3115) \end{gathered}$ | 4.00 (102) | 18.0 (457) | BT1HT or BT2MS75 | 50 | 250 |
| MS6W50T15-L4 |  |  |  | 6.00 (152) | 24.4 (620) |  | 50 | 250 |
| MS8W50T15-L4 |  |  |  | 8.00 (203) | 30.7 (780) |  | 50 | 250 |
| MS10W50T15-L4 |  |  |  | 10.00 (254) | 37.0 (940) |  | 50 | 250 |
| MS4W63T15-L4 | $\begin{aligned} & .015 \\ & (.38) \end{aligned}$ | $\begin{gathered} .63 \\ (15.9) \end{gathered}$ | $\begin{gathered} 800 \\ (3560) \end{gathered}$ | 4.00 (102) | 18.0 (457) | BT1HT or BT2MS75 | 50 | 250 |
| MS6W63T15-L4 |  |  |  | 6.00 (152) | 24.4 (620) |  | 50 | 250 |
| MSW63T15-L4 |  |  |  | 8.00 (203) | 30.7 (780) |  | 50 | 250 |
| MS10W63T15-L4 |  |  |  | 10.00 (254) | 37.0 (940) |  | 50 | 250 |

*Order the number of strapping, and buckles required in multiples of standard package quantities.
The PANDUIT ${ }^{\circledR}$ Method Reduces Installation Time:


1. Place strap around the material, insert tail of strap through buckle. Pull strapping tight and bend up to hold in place. Insert tail of strapping into tool nose section. Squeeze handles to tension.

2. Once proper tension is reached, maintain tension and raise tool $90^{\circ}-120^{\circ}$ over buckle and pull down on cutter lever, cutting strap.

3. Remove tool, press cut end down and toward retaining tab.

4. Using the closure level on the handle of the tool, bend retaining tab down and over cut end. Provides finished, safe, low profile closure.

## Custom Length Strapping System



- Provides job-site versatility with minimum inventory
- Gives custom capability on larger diameters

|  |  | Approx. | Used | Std. | Std. |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Part Number | Thickness | Width. <br> In. $(\mathrm{mm})$ | With <br> In. $(\mathrm{mm})$ | Pkg. <br> Ctn. <br> Buckle | Qty. |
| Qty. |  |  |  |  |  |

STRAPPING

| MSW38T15-CR4 | $.015(.38)$ | $.38(9.5)$ | MSBW38-C4 | $1^{*}$ | - |
| :--- | :--- | :--- | :--- | :--- | :--- |
| MSW50T15-CR4 | $.015(.38)$ | $.50(12.7)$ | MSBW50-C4 | $1^{*}$ | - |
| MSW63T15-CR4 | $.015(.38)$ | $.63(15.9)$ | MSBW63-C4 | $1^{\star}$ | - |

BUCKLES


- 304 stainless steel
- Buckle is easy to install-just slip onto strapping and turn strapping back

| MSBW38-C4 | Used with .38" width strapping. | 100 | 1000 |
| :--- | :--- | :--- | :--- |
| MSBW50-C4 | Used with .50" width strapping. | 100 | 1000 |
| MSBW63-C4 | Used with .63" width strapping. | 100 | 1000 |

*Order the number of strapping, and buckles required in multiples of standard package quantities.

## Installation Tools



Hand operated tool. Adjustable tension control and lever actuated cut-off.

|  |  | Std. <br> Pkg. <br> Qty.* |
| :--- | :--- | :---: |
| PT1HT | Description | 1 |
|  | Installation tool. Used for all widths of PANDUIT® PAN-STEEL® <br> strapping. Tensions, cuts strapping, and secures the buckle tab. <br> Ratchet-type tool provides mechanical advantage for tensioning. <br> Easy to operate. |  |

[^5]
## Wiring Accessories



## Smart Ways to Lower Your Installed Cost

PANDUIT ${ }^{\circledR}$ Wiring Accessories offer you a broad range of products designed to speed installation and lower your installed costs-whatever your requirements. Plus, PANDUIT ${ }^{\circledR}$ provides experienced technical support to assure you get not only the best product for your application, but maximum benefit from its use.

For more information, in the U.S.A. call toll-free:
Technical Support: 866-405-6657 or Customer Service: 800-777-3300

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Wiring Accessories are an integral part of PANDUIT ${ }^{\circledR}$ comprehensive selection of wire management products. These accessories help provide the lowest installed solution to routing, mounting, protecting wire, cable and optical fiber. These products are manufactured in an environment committed to design innovation, high quality and knowledgeable service to our customers. The key benefits of this commitment are:

- The highest quality manufacturing environment, including statistical process control to meet applicable international and domestic standards

- PANDUIT ${ }^{\circledR}$ teams up with a global network of Distributors to provide you with Just In Time shipping to eliminate your need for large inventories
- Fully staffed engineering and tool and die departments to assist in designing solutions to specific industry applications
- Continuous research on materials, adhesives and new technologies to provide you the latest product innovations


## Selection of Styles



## Cable Tie Accessories

These products are used with PANDUIT ${ }^{\circledR}$ Cable Ties to speed and simplify the mounting of wires, cables and tubing. Installation methods include adhesive-backed, user applied adhesive, screws, rivets or through-panel mount designs.


## Wiring Accessories

These products, including fixed and adjustable diameter accessories, are used without cable ties. Mounting methods include adhesive-backed, user applied adhesive, screws, rivets or through-panel designs.


## Harness Board Accessories

PANDUIT ${ }^{\circledR}$ unique selection of harness board accessories speeds the routing and forming of wire in harness fabrication. They hold wires at a uniform height above the board and are ideal for use with $P A N D U I T^{\circledR}$ manual and automatic cable tie tooling.


## Abrasion Protection Products

PANDUIT ${ }^{\circledR}$ offers a wide variety of abrasion protection products to protect wires, cables, hoses and tubing from abrasion. Heat shrink tubing, non-shrink PVC tubing, spiral wrap, grommet edging, corrugated loom tubing and braided expandable sleeving are available in a variety of sizes and materials to meet a broad range of indoor and outdoor applications.

## PANDUIT ${ }^{\text {® }}$ Wiring Accessories Part Number System and Technical Data

## Part Number System Example

Part Description

For Part Description and
Mounting Method, refer to specific product tables in catalog.

## Package Quantity

$X=10$
$Q=25$
$\mathrm{L}=50$
$C=100$
$\mathrm{T}=200$
$D=500$
$M=1000$

## Color/Material

Blank = Natural
$0=$ Weather Resistant Black
8 = Gray
15 = Ivory
$20=$ Pigmented Black
$30=$ Heat Stabilized Nylon (Black)
69 = Flame Retardant Nylon (Natural)
76 = TEFZEL* (Blue)
100 = Polypropylene Weather Resistant (Black)
109 = Polypropylene (Green)
120 = Weather Resistant Nylon 12 (Black)
$630=$ Heat Stabilized Nylon 6 (Black)
$639=$ Heat Stabilized Nylon 6 (Natural)
$702=$ HALAR $^{* *}$ (Maroon)

Physical Properties and Colors of Wiring Accessory Materials

| Design Criteria | General Purpose Nylon 6.6 |  | Weather Resistant Nylon 6.6 | Impact Modified Weather Resistant Nylon 6.6 | Heat Stabilized Nylon 6.6 | Flame Retardant Nylon 6.6 |  | Glass Filled Flame Retardant Nylon 6.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Color | Natural | Black | Black | Black | Black | Black | Natural | Black |
| Part Number Suffix | None | 20 | 0 | 0 | 30 | 60 | 69 | None |
| UL Flammability - UL94 | V-2 | V-2 | V-2 | HB | V-2 | V-0 | V-0 | V-0 |
| Gamma Radiation Resistance | $1 \times 10^{5}$ Rads | $1 \times 10^{5}$ Rads | $1 \times 10^{5}$ Rads | N/A | $1 \times 10^{5}$ Rads | $1 \times 10^{5}$ Rads | $1 \times 10^{5}$ Rads | N/A |
| Water Absorption | $\begin{gathered} 1.2 \% \\ \text { (24 hrs) } \end{gathered}$ | $\begin{gathered} 1.2 \% \\ (24 \mathrm{hrs}) \end{gathered}$ | $\begin{gathered} 1.2 \% \\ \text { (24 hrs) } \\ \hline \end{gathered}$ | $\begin{gathered} 1.2 \% \\ \text { (24 hrs) } \end{gathered}$ | $\begin{gathered} 1.2 \% \\ (24 \mathrm{hrs}) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 1.1 \% \\ \text { (24hrs) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline 1.1 \% \\ \text { (24hrs) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.7 \% \\ \text { (24hrs) } \\ \hline \end{gathered}$ |
| UV Resistance | Poor | Fair | Good | Good | Good | Poor | Poor | Poor |
| Maximum Continuous Use Temperature | $185{ }^{\circ} \mathrm{F}\left(85^{\circ} \mathrm{C}\right)$ | $185^{\circ} \mathrm{F}\left(85^{\circ} \mathrm{C}\right)$ | $185^{\circ} \mathrm{F}\left(85^{\circ} \mathrm{C}\right)$ | $185^{\circ} \mathrm{F}\left(85^{\circ} \mathrm{C}\right)$ | $257{ }^{\circ} \mathrm{F}\left(125^{\circ} \mathrm{C}\right)$ | $230^{\circ} \mathrm{F}\left(110^{\circ} \mathrm{C}\right)$ | $230^{\circ} \mathrm{F}\left(110^{\circ} \mathrm{C}\right)$ | $230^{\circ} \mathrm{F}\left(110^{\circ} \mathrm{C}\right)$ |
| Minimum Continuous Use Temperature | $\begin{gathered} \hline-40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ | $\begin{gathered} \hline-40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ |

Physical Properties and Colors of Wiring Accessory Materials

| Design Criteria | Heat Stabilized Nylon 6.6 |  | TEFZEL* | General Purpose Polypropylene | Weather <br> Resistant <br> Polypropylene | Polyproplyene (Green) | HALAR** | General Purpose ABS |  | Weather Resistant ABS | Flame Retardant Polycarbonate | Acetal | PVC |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Color | Black | Natural | Blue | White | Black | Green | Maroon | White | Black | Black | Black | Black | Gray, White |
| Part Number Suffix | 630 | 639 | 76 | None | 100 | 109 | 702 | None | 20 | 0 | None | None | 8, 10 |
| UL <br> Flammability - UL94 | HB | HB | V-0 | HB | HB | HB | V-0 | HB | HB | HB | V-0 | HB | V-0 |
| Gamma Radiation Resistance | N/A | N/A | $\begin{gathered} 2 \times 10^{8} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 1 \times 10^{6} \\ \text { Rads } \end{gathered}$ | $\begin{gathered} 1 \times 10^{6} \\ \text { Rads } \end{gathered}$ | N/A | $\begin{gathered} 2 \times 10^{8} \\ \text { Rads } \end{gathered}$ | N/A | N/A | N/A | N/A | N/A | N/A |
| Water Absorption (24 hours) | $\begin{gathered} 1.5 \% \\ (24 \mathrm{hrs}) \end{gathered}$ | $\begin{gathered} 1.5 \% \\ (24 \mathrm{hrs}) \end{gathered}$ | $\begin{aligned} & <0.03 \% \\ & (24 \mathrm{hrs}) \end{aligned}$ | $\begin{gathered} 0.1 \% \\ (24 \mathrm{hrs}) \end{gathered}$ | $\begin{gathered} 0.1 \% \\ (24 \mathrm{hrs}) \end{gathered}$ | $\begin{gathered} 0.1 \% \\ \text { (24hrs) } \end{gathered}$ | $\begin{aligned} & <0.05 \% \\ & (24 \mathrm{hrs}) \end{aligned}$ | $\begin{gathered} 0.3 \% \\ (24 \mathrm{hrs}) \end{gathered}$ | $\begin{gathered} 0.3 \% \\ (24 \mathrm{hrs}) \end{gathered}$ | $\begin{aligned} & \hline 0.3 \% \\ & \text { (24hrs) } \end{aligned}$ | $\begin{gathered} 0.15 \% \\ (24 \mathrm{hrs}) \end{gathered}$ | $\begin{gathered} 0.43 \% \\ (24 \mathrm{hrs}) \end{gathered}$ | $\begin{gathered} 0.3 \% \\ \text { (30 days) } \end{gathered}$ |
| UV Resistance | Fair | Poor | Excellent | Poor | Good | Poor | Excellent | Poor | Fair | Good | Good | Fair | Poor |
| Maximum Continuous Use Temperature | $\begin{gathered} \hline 250^{\circ} \mathrm{F} \\ \left(121^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} 250^{\circ} \mathrm{F} \\ \left(121^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} 302^{\circ} \mathrm{F} \\ \left(150^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} 221^{\circ} \mathrm{F} \\ \left(105^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} 221^{\circ} \mathrm{F} \\ \left(105^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} 221^{\circ} \mathrm{F} \\ \left(105^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} 284^{\circ} \mathrm{F} \\ \left(140^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{aligned} & 150^{\circ} \mathrm{F} \\ & \left(65^{\circ} \mathrm{C}\right) \end{aligned}$ | $\begin{aligned} & 150^{\circ} \mathrm{F} \\ & \left(65^{\circ} \mathrm{C}\right) \end{aligned}$ | $\begin{aligned} & 150^{\circ} \mathrm{F} \\ & \left(65^{\circ} \mathrm{C}\right) \end{aligned}$ | $\begin{gathered} 257^{\circ} \mathrm{F} \\ \left(125^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{aligned} & 194^{\circ} \mathrm{F} \\ & \left(90^{\circ} \mathrm{C}\right) \end{aligned}$ | $\begin{aligned} & 122^{\circ} \mathrm{F} \\ & \left(50^{\circ} \mathrm{C}\right) \end{aligned}$ |
| Minimum Continuous Use Temperature | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -50^{\circ} \mathrm{F} \\ \left(-46^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} \hline-50^{\circ} \mathrm{F} \\ \left(-46^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \end{gathered}$ |

Based on assumption of minimal loading, chemical attack and impact free conditions.
${ }^{*}$ TEFZEL is a registered trademark of E. I. DuPont de Nemours Co.
**HALAR is a registered trademark of Solvay Solexis, Inc.


Lower your installed costs with fast, easy-to-install PANDUIT ${ }^{\circledR}$ adhesive-backed cable tie mounts. Four-way tie entry for easy orientation of wires or cables. PANDUIT ${ }^{\circledR}$ mounts are produced 2-up, 4-up, and with tear tabs for fast and easy liner removal to speed installation. For additional holding strength use \#6 (M3) screws in the mounting hole(s). For specific information on adhesive properties and technical data on mount selection, see page 134-136.


| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Adhesive Type/Static Load Ibs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| ABM1 M-A-C | M | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} \hline .16 \\ (4.0) \\ \hline \end{gathered}$ | Nylon 6.6 | White | Indoors | Rubber $.13(59)$ | 100 | 500 | 1000 | 5000 |
| ABM1M-AT-C | M | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .16 \\ (4.0) \\ \hline \end{gathered}$ | Nylon 6.6 | White | Indoors/ High Temp. | Acrylic $.13 \text { (59) }$ | 100 | 500 | 1000 | 5000 |
| ABMM-A-C | M, I | $\begin{gathered} .75 \\ (19.1) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .18 \\ (4.6) \\ \hline \end{gathered}$ | ABS | White | Indoors | $\begin{gathered} \hline \text { Rubber } \\ .30(136) \\ \hline \end{gathered}$ | 100 | 500 | 500 | 5000 |
| ABMM-A-C20 | M, I | $\begin{gathered} .75 \\ (19.1) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .18 \\ (4.6) \\ \hline \end{gathered}$ | ABS | Black | Indoors | $\begin{aligned} & \hline \text { Rubber } \\ & .30(136) \end{aligned}$ | 100 | 500 | - | - |
| ABMM-AT-C | M, I | $\begin{gathered} .75 \\ (19.1) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ | $\begin{gathered} \hline .18 \\ (4.6) \\ \hline \end{gathered}$ | ABS | White | Indoors/ High Temp. | Acrylic <br> .30 (136) | 100 | 500 | 500 | 5000 |
| AB MM-AT-C0 | M, I | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .18 \\ (4.6) \\ \hline \end{gathered}$ | ABS | Black | Outdoors/ High Temp. | Acrylic $.30 \text { (136) }$ | 100 | 500 | 500 | 5000 |

## PANDUIT ${ }^{\text {® }}$ Adhesive Backed Cable Tie Mounts

## 4-Way Adhesive Backed Mounts


ABM2S

ABM3H/ABM4H
ABM100
ABM112

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Adhesive Type/Static Load lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| ABM2S-A-C | M, I, S | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} .16 \\ (4.2) \end{gathered}$ | ABS | White | Indoors | $\begin{aligned} & \text { Rubber } \\ & .50(227) \end{aligned}$ | 100 | 500 | 500 | 5000 |
| ABM2S-AT-C |  |  |  |  |  |  | Indoors/ High Temp. | Acrylic <br> .50 (227) | 100 | 500 | 500 | 5000 |
| ABM2S-AT-C0 |  |  |  |  | Weather Resistant ABS | Black | Outdoors/ High Temp. |  | 100 | 500 | 500 | 5000 |
| ABM100-A-C |  |  |  | $\begin{aligned} & .23 \\ & (5.8) \end{aligned}$ | Nylon 6.6 | White | Indoors | $\begin{aligned} & \hline \text { Rubber } \\ & .50(227) \\ & \hline \end{aligned}$ | 100 | 500 | 500 | 5000 |
| ABM100-AT-C |  |  |  |  |  |  |  | Acrylic$.50(227)$ | 100 | 500 | 500 | 5000 |
| ABM100-AT-C0 |  |  |  |  | Weather Resistant Nylon 6.6 | Black | Outdoors/ High Temp. |  | 100 | 500 | 500 | 5000 |
| ABM112-A-C |  | $\begin{gathered} 1.12 \\ (28.6) \end{gathered}$ | $\begin{gathered} 1.12 \\ (28.6) \end{gathered}$ | $\begin{gathered} .14 \\ (4.1) \end{gathered}$ | Nylon 6.6 | White | Indoors | $\begin{aligned} & \text { Rubber } \\ & .63 \text { (286) } \end{aligned}$ | 100 | 500 | 500 | 5000 |
| ABM112-AT-C |  |  |  |  |  |  | Indoors/ High Temp. | Acrylic . 63 (286) | 100 | 1000 | 500 | 5000 |
| ABM112-AT-C0 |  |  |  |  |  | Black | Outdoors/ High Temp. |  | 100 | 1000 | 500 | 5000 |
| ABM3H-A-L | M, I, S, HS, LH, H, HLM ■ | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | $\begin{gathered} .25 \\ (6.4) \end{gathered}$ |  | White | Indoors | $\begin{gathered} \text { Rubber } \\ 1.12(513) \end{gathered}$ | 50 | 500 | 200 | 1000 |
| ABM3H-AT-L |  |  |  |  |  |  | Indoors High Temp. | $\begin{gathered} \text { Acrylic } \\ 1.12(513) \\ \hline \end{gathered}$ | 50 | 500 | 200 | 1000 |
| ABM4H-A-L |  | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ |  |  |  | Indoors | $\begin{gathered} \text { Rubber } \\ 2.0 \text { (907) } \end{gathered}$ | 50 | 500 | 200 | 1000 |
| ABM4H-AT-L |  |  |  |  |  |  | Indoors/ High Temp. | $\begin{gathered} \text { Acrylic } \\ 2.0(907) \end{gathered}$ | 50 | 500 | 200 | 1000 |

## 4-WAY MOUNTS WITHOUT ADHESIVE

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Adhesive Type/Static Load lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. Pkg. Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| ABMM-D | M, I | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ | $\begin{gathered} \hline .14 \\ (3.6) \end{gathered}$ | ABS | White | Indoors | User supplied adhesive | - | - | 500 | 5000 |
| ABM2S-S6-D | M, I,S | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} .16 \\ (4.2) \end{gathered}$ |  |  |  | User supplied adhesive and/or (2) \#6 (M3) Screws | - | - | 500 | 5000 |
| ABM100-S6-C |  |  |  | $\begin{gathered} .20 \\ (5.1) \end{gathered}$ | Nylon 6.6 |  |  | User supplied adhesive and/or \#6 (M3) Screw | 100 | 1000 | 500 | 5000 |
| ABM100-S6-C69 |  |  |  |  | Flame Retard. Nylon 6.6 | Natural |  |  | 100 | 1000 | 500 | 5000 |
| ABM112-S6-C |  | $\begin{gathered} 1.12 \\ (28.6) \end{gathered}$ | $\begin{gathered} 1.12 \\ (28.6) \end{gathered}$ | $\begin{gathered} .14 \\ (4.1) \end{gathered}$ | Nylon 6.6 | White |  | User supplied adhesive and/or (2) \#6 (M3) Screws | 100 | 1000 | 500 | 5000 |
| ABM112-S6-C69 |  |  |  |  | Flame Retard. Nylon 6.6 | Natural | Indoors |  | 100 | 500 | 500 | 5000 |
| ABM3H-S6-T | $\begin{gathered} \text { M, I, S, HS, } \\ \text { LH, H, } \\ \text { HLM ■ } \end{gathered}$ | $\begin{gathered} 1.50 \\ (38.1) \\ \hline \end{gathered}$ | $\begin{gathered} 1.50 \\ (38.1) \\ \hline \end{gathered}$ | $\begin{gathered} .21 \\ (5.2) \end{gathered}$ | Nylon 6.6 | White |  |  | - | - | 200 | 1000 |
| ABM4H-S6-T |  | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ |  |  |  |  |  | - | - | 200 | 1000 |

■Used with PANDUIT ${ }^{\oplus}$ HLM series Hook \& Loop Cable Ties found on page 40.


Adhesive mount and cable tie molded as one piece help reduce inventory costs. Mount portion features ramp to guide tip into tie head and holes to install two (2) optional \#6 screws for added mounting strength. Available with locking or releasable tie. Extended adhesive liner release tab on mount for fast liner removal.


| Part Number $\ddagger$ | Cable Tie Specifications |  |  |  | Recommended PANDUIT ${ }^{\oplus}$ <br> Installation Tool | Material | Color | Adhesive Type/Static Load lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Length } \\ & \text { A } \\ & \text { in. (mm) } \end{aligned}$ | $\begin{gathered} \text { Width } \\ \text { B } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | Max. Bundle Dia. in. (mm) | Min. Loop Tensile Strength Lbs. (N) |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| Locking PLA2S-A-Q | $\begin{gathered} 7.4 \\ (188) \end{gathered}$ | $\begin{gathered} .19 \\ (4.8) \end{gathered}$ | $\begin{aligned} & 1.85 \\ & (47) \end{aligned}$ | $\begin{gathered} 50 \\ (222) \end{gathered}$ | GTS, GS2B, PPTS, PTS, STS2 or STH2 | Nylon 6.6 | White | $\begin{gathered} \text { Rubber } \\ .45 \\ (204) \end{gathered}$ | 25 | 250 | 100 | 1000 |
| Releasable PRA2S-A-Q |  |  |  |  | Hand Installed Only |  |  |  | 25 | 250 | 100 | 1000 |

## Snap-In Cable Tie Mounts



Integral retaining notch holds cable tie head in place below bundle; eliminates protruding tie head and facilitates one hand tie threading.


| Part Number $\ddagger$ | Used <br> With <br> Cable <br> Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |


| SMS-A-C | S | $\begin{aligned} & 2.00 \\ & (50.8) \end{aligned}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} .31 \\ (7.9) \end{gathered}$ | ABS | White | Indoors | Rubber Adhesive Static Load 1.0 lbs . (454g) | 100 | 500 | 500 | 5000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

SCREW MOUNT

| SMS-S6-D | S | 2.00 <br> $(50.8)$ | 1.00 <br> $(25.4)$ | .31 <br> $(7.9)$ | ABS | White | Indoors | $(2)$ \#6 <br> (M3) Screws | - | - | 500 | 5000 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Panduli ${ }^{\circ}$ <br> Cable Tie Mounts

## Epoxy Applied Mounts



These mounts are designed for application with PANDUIT ${ }^{\circledR}$ EMA Epoxy. Provides a fast, strong, economical method to secure wire or cable to steel, aluminum, glass, wood and most other surfaces. Especially well suited to construction and maintenance applications. Eliminates the need to drill holes.


| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Max. <br> Static <br> Load lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| EMS-A-C | M, I, S | $\begin{gathered} .98 \\ (24.9) \end{gathered}$ | $\begin{gathered} .98 \\ (24.9) \end{gathered}$ | $\begin{gathered} .26 \\ (6.6) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | EMA <br> Epoxy | 10 (4540) | 100 | 500 | 500 | 1000 |
| EMS-A-CO |  |  |  |  | Weather Resistant Nylon 6.6 | Black | Outdoors |  |  | 100 | 500 | 500 | 5000 |

## Epoxy Applied Swivel Mounts



Mount swivels $360^{\circ}$ to assure proper orientation with harness. Four inspection holes to check adhesive coverage.
Material:
Base and Rivet: Aluminum Mount: Natural Nylon 6.6 - Indoors


| Part Number $\ddagger$ | Used With Cable Ties | Dimensions in. (mm) |  |  | Where Used | Mounting Method | $\begin{gathered} \text { Max. Static } \\ \text { Load } \\ \text { lbs. }(\mathrm{g}) \bullet \\ \hline \end{gathered}$ | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| ASMS-A-X | M, I, S | $\begin{aligned} & 1.125 \\ & (28.6) \end{aligned}$ | $\begin{aligned} & 1.125 \\ & (28.6) \end{aligned}$ | $\begin{gathered} .35 \\ (8.9) \\ \hline \end{gathered}$ | Indoors | EMA <br> Epoxy | 10 (4540) | 10 | 50 | 200 | 1000 |

## Epoxy Adhesive and Mount Kits



EMSK3-1-X0 Epoxy Kit with mounts. Packed in sturdy foil pouch


EMSK-12-4-12-X0 Epoxy Kit with mounts and cable ties

EMA Epoxy supplied in convenient two-compartment mixer cup with a mixer stick for each cup. Each cup contains adhesive for three (3) EMS or ASMS mounts.
Epoxy hardens in about five (5) minutes. Supports about 5 lbs . after first 15 minutes. After full 24 -hour curing time, bonding strength will exceed 50 lbs . on clean, grease-free surface. Note: Not recommended for polyethylene and polypropylene.

| Part Number $\ddagger$ | Used With Cable Ties** | Where Used | Contents of Each Kit |  |  |  | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Epoxy <br> Cups | Mixer Sticks | EMS Mounts | Cable Ties | Std. <br> Pkg. Qty. | Bulk <br> Pkg. <br> Qty. |
| EPOXY ADHESIVE ONLY |  |  |  |  |  |  |  |  |
| EMA-X | - | Indoor/ Outdoor | 10 | 10 | None | None | $\begin{gathered} \hline 10 \\ \text { Kits } \end{gathered}$ | - |

EPOXY MOUNTING KIT WITH EMS MOUNTS

| EMSK3-1-X0 | M, I, S | Indoor/ <br> Outdoor | 1 | 1 | 3 | None | 10 <br> Kits | 100 <br> Kits |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

EPOXY MOUNTING KIT WITH EMS MOUNTS AND CABLE TIES

| EMSK3-1-3-0 | M, I, S | Indoor/ Outdoor | 1 | 1 | 3 | $\begin{gathered} 3 \text { ea. } \\ \text { PLT2S-0 } \end{gathered}$ | $\begin{gathered} 1 \\ \text { Kit } \end{gathered}$ | $\begin{gathered} \hline 10 \\ \text { Kits } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EMSK12-4-12-X0 | M, I, S |  | 4 | 4 | 12 | $\begin{gathered} 12 \text { ea. } \\ \text { PLT2S-0 } \end{gathered}$ | $\begin{gathered} \hline 10 \\ \text { Kits } \end{gathered}$ | $\begin{aligned} & \hline 100 \\ & \text { Kits } \end{aligned}$ |

## PANDUIT ${ }^{\circledR}$ Cable Tie Mounts

Tie Mounts -
Mechanically Applied

Unique cradle design provides maximum stability and rigidity to the wire bundle. Screw or rivet installed.


TM-S-
TM-R-

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| TM1S4-C | M | $\begin{gathered} .513 \\ (13.0) \end{gathered}$ | $\begin{aligned} & .316 \\ & (8.0) \end{aligned}$ | $\begin{aligned} & .230 \\ & (5.8) \end{aligned}$ | $\begin{aligned} & .130 \\ & (3.3) \end{aligned}$ | $\begin{aligned} & .067 \\ & (1.7) \end{aligned}$ | Nylon 6.6 | Natural | Indoors | \#4 (M2.5) Screw or Tapered Rivet | 100 | 500 | 1000 | 5000 |
| TM1S6-C |  |  |  |  |  |  |  |  |  | \#6 (M3) | 100 | 500 | 1000 | 5000 |
| TM2S6-C | M, I, S | $\begin{gathered} .630 \\ (16.0) \end{gathered}$ | $\begin{gathered} .425 \\ (10.8) \end{gathered}$ | $\begin{aligned} & .275 \\ & (7.0) \end{aligned}$ | $\begin{aligned} & .215 \\ & (5.5) \end{aligned}$ | $\begin{aligned} & .060 \\ & (1.5) \end{aligned}$ |  |  |  | Screw or Tapered Rivet | 100 | 500 | 1000 | 5000 |
| TM2S8-C |  |  |  |  |  |  |  |  |  | \#8 (M4) Screw or Tapered Rivet | 100 | 500 | 1000 | 5000 |
| TM2R6-C |  |  |  |  |  |  |  |  |  | \#6 (M3) Screw or Countersunk Rivet | 100 | 500 | 1000 | 5000 |
| TM3S8-C | $\begin{aligned} & \text { M, I, S, } \\ & \text { HS, LH } \end{aligned}$ | $\begin{gathered} .858 \\ (21.8) \end{gathered}$ | $\begin{gathered} .610 \\ (15.5) \end{gathered}$ | $\begin{aligned} & .375 \\ & (9.5) \end{aligned}$ | $\begin{aligned} & .320 \\ & (8.1) \end{aligned}$ | $\begin{aligned} & .080 \\ & (2.0) \end{aligned}$ | Nylon 6.6 | Natural | Indoors | $\begin{array}{\|c} \hline \# 8 \text { (M4) Screw } \\ \text { or Tapered } \\ \text { Rivet } \end{array}$ | 100 | 500 | 1000 | 5000 |
| TM3S10-C |  |  |  |  |  |  |  |  |  | \#10 (M5) Screw or Tapered Rivet | 100 | 500 | 1000 | 5000 |
| TM3S25-C |  |  |  |  |  |  |  |  |  | $1 / 4(\mathrm{M} 6)$ <br> Screw or <br> Tapered Rivet | 100 | 500 | 1000 | 5000 |
| TM3R6-C |  |  |  |  |  |  |  |  |  | \#6 (M3) Screw or Countersunk Rivet | 100 | 500 | 1000 | 5000 |


| Hole Diameter -in. (mm) |  |  |
| :--- | :---: | :---: |
| Part <br> Number | Hole Dia. | Counterbore <br> Dia. |
| TM1S4 | $.120(3.0)$ | $.230(5.8)$ |
| TM1S6 | $.150(3.8)$ | $.280(7.1)$ |
| TM2S6 | $.150(3.8)$ | $.280(7.1)$ |
| TM2S8 | $.180(4.6)$ | $.320(8.1)$ |
| TM2R6 | $.190(4.8)$ | Countersunk |
| TM3S8 | $.180(4.6)$ | $.320(8.1)$ |
| TM3S10 | $.200(5.1)$ | $.390(9.9)$ |
| TM3S25 | $.260(6.6)$ | $.510(12.9)$ |
| TM3R6 | $.190(4.8)$ | Countersunk |


| Additional Tie Mount Part Numbers Available in specified materials. All are available as standard PANDUIT ${ }^{\circledR}$ parts |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Heat Stabilized Nylon | Flame Retardant Nylon | Weather Resistant Nylon | Weather Resistant Polypropylene | TEFZEL*** |
| TM1S4-M30 <br> TM1S6-M30 <br> TM2R6-M30 <br> TM2S6-M30 <br> TM2S8-M30 <br> TM3S8-M30 <br> TM3S10-M30 <br> TM3S25-M30 | TM1S4-M69 <br> TM1S6-M69 <br> TM2S6-M69 <br> TM2S8-M69 <br> TM3S8-C69 <br> TM3S10-M69 | TM1S6-M0 TM2R6-M0 TM2S6-M0 TM2S8-M0 TM3R6-M0 TM3S10-Q0 TM3S10-M0 TM3S25-M0 | TM2S8-C100 TM3S8-C100 TM3S8-M100 | TM3S10-C76 TM3S8-C76 TM2S8-C76 |

***TEFZEL is a registered trademark of E.I. DuPont de Nemours Co.

## PANDUIT ${ }^{\text {® }}$ Cable Tie Mounts

## Extra-Heavy Tie Mounts



Mounts designed especially for use with PANDUIT®
Extra-Heavy cross-section ties for mounting cable, large wire bundles or tubular shapes.

| Part <br> Number | Hole Diameter | Counterbore <br> Diameter |
| :--- | :---: | :---: |
| TMEHS8 | $.18^{\prime \prime}(4.3 \mathrm{~mm})$ | $.51^{\prime \prime}(13.0)$ |
| TMEHS10 | $.20^{\prime \prime}(5.1 \mathrm{~mm})$ | $.51^{\prime \prime}(13.0)$ |
| TMEH25 | $.26^{\prime \prime}(6.6 \mathrm{~mm})$ | $.51^{\prime \prime}(13.0)$ |



| Part Number $\ddagger$ | Used <br> With <br> Cable <br> Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| TMEH-S8-Q0 | $\mathrm{M}, \mathrm{I}, \mathrm{~S}, \mathrm{HS},$ <br> LH, EH, <br> HLM ■ | $\begin{aligned} & 1.65 \\ & (42) \end{aligned}$ | $\begin{array}{r} .74 \\ (19) \end{array}$ | $\begin{gathered} .61 \\ (15.5) \end{gathered}$ | Weather Resistant Nylon 6.6 | Black | Outdoors | \#8 (M4) Screw | 25 | 250 | 100 | 500 |
| TMEH-S10-Q0 |  |  |  |  |  |  |  | \#10 (M5) Screw | 25 | 250 | 100 | 500 |
| TMEH-S25-Q0 |  |  |  |  |  |  |  | 1/4 (M6) Screw | 25 | 250 | 100 | 500 |
| TMEH-S10-C100 |  |  |  |  | Weather Resistant Polypropylene |  |  | \#10 (M5) Screw | - | - | 100 | 500 |
| TMEH-S10-C109 |  |  |  |  | Polypropylene | Green | Indoors |  | - | - | 100 | 500 |

## Swivel Cable Tie Mounts

The two TM style mounts are securely fastened together with a rivet that allow both mounts to swivel. The Swivel Mount can join bundles of cable, tubing or hoses that may need to move or are not parallel. This mount is also a great way to separate bundles to avoid abrasion.

TM3

|  | Used <br> With <br> Cable <br> Ties** | Dimensions <br> in. (mm) |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Easily applied to bolts or studs with a light hammer blow or turning of the mount. The mounts are designed for use with cable ties to mount wire bundles, air, water and hydraulic lines.

TMSTHS Type

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| TMSTLHS5-M0 | $\begin{aligned} & \text { M, I, S, } \\ & \text { HS, LH } \end{aligned}$ | $\begin{gathered} 1.25 \\ (31.8) \end{gathered}$ | $\begin{gathered} .48 \\ (12.2) \end{gathered}$ | $\begin{gathered} .95 \\ (24.1) \end{gathered}$ | Impact <br> Modified Weather Resistant Nylon 6.6 | Black | Outdoors | \#12 Stud Dia. ( 5 mm ) | 100 | 1000 | 1000 | 5000 |
| TMSTLHS6-M0 |  |  |  |  |  |  |  | $\begin{gathered} \hline \text { 1/4" Stud Dia. } \\ (6 \mathrm{~mm}) \\ \hline \end{gathered}$ | 100 | 1000 | 1000 | 5000 |
| TMSTLHS8-M0 |  |  |  |  |  |  |  | 5/16" Stud Dia. $(8 \mathrm{~mm})$ | 100 | 1000 | 1000 | 5000 |
| TMSTHS10-D0 | $\begin{gathered} \mathrm{M}, \mathrm{I}, \mathrm{~S}, \mathrm{HS}, \\ \mathrm{LH}, \mathrm{H} \end{gathered}$ | $\begin{gathered} 1.99 \\ (50.6) \end{gathered}$ | $\begin{gathered} 1.01 \\ (25.6) \end{gathered}$ | $\begin{gathered} 1.10 \\ (27.9) \end{gathered}$ |  |  |  | $\begin{gathered} \text { 3/8" Stud Dia. } \\ (10 \mathrm{~mm}) \\ \hline \end{gathered}$ | 100 | 1000 | 500 | 500 |
| TMSTHS13-D0 |  |  |  |  |  |  |  | $\begin{gathered} \hline \text { 1/2" Stud Dia. } \\ (13 \mathrm{~mm}) \end{gathered}$ | 100 | 1000 | 500 | 500 |
| TMSTHS16-D0 |  |  |  |  |  |  |  | 5/8" Stud Dia. ( 16 mm ) | 100 | 1000 | 500 | 500 |
| TMSTHS19-D0 |  |  |  |  |  |  |  | $\begin{gathered} \text { 3/4" Stud. Dia. } \\ (19 \mathrm{~mm}) \\ \hline \end{gathered}$ | 100 | 1000 | 500 | 500 |

## Spacer Mount



Maintain a standoff from the frame rail in Chassis Tie applications. Ideal for applications where bundles must be secured away from the frame to avoid abrasion.


| Part Number $\ddagger$ | Used With Cable Ties | Dimensions in. (mm) |  |  |  |  | Material | Color | Minimum Panel Thickness | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A <br> Cable Tie Channel in. (mm) | $\begin{gathered} \text { B } \\ \text { Width } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | C <br> Standoff Height in. (mm) | D <br> Base Depth in. (mm) | E <br> Recommended Panel Hole Dia. in. (mm) |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| TMSH50-T300 | $\begin{array}{\|l\|} \hline \text { SSPM2.5H-L300 } \\ \text { SSPM4H-L300 } \end{array}$ | $\begin{gathered} .310 \\ (7.875) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | Weather Resistant Heat Stabilized Nylon 6.6 | Black | $\begin{aligned} & \hline 0.188 \\ & (4.78) \end{aligned}$ | 100 | 1000 | 200 | 1000 |

## Tie Mounts - Applied with User Supplied Adhesives

Apply cyanoacrylic or another type adhesive to mount surface. Any adhesive selected should be user-tested to assure suitability for the actual application. Mounts should be installed on a clean, dry and grease-free surface. Bond strength depends on adhesive used.

Low profile design keeps bundle close to mounting surface where overhead space is limited.


| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| AM2-C | M, I, S | $\begin{gathered} 1.22 \\ (31.2) \end{gathered}$ | $\begin{gathered} 1.22 \\ (31.2) \end{gathered}$ | $\begin{aligned} & .125 \\ & (3.2) \end{aligned}$ | Nylon 6.6 | Natural | Indoors | User Supplied Adhesive | 100 | 500 | 1000 | 5000 |

TM1A, TM2A, TM3A
Solid flat bottom surface provides maximum adhesive area.

cinus

| Part Number $\ddagger$ | Used <br> With <br> Cable <br> Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| TM1A-C | M | $\begin{gathered} .513 \\ (13.0) \\ \hline \end{gathered}$ | $\begin{array}{r} .316 \\ (8.0) \\ \hline \end{array}$ | $\begin{array}{r} .230 \\ (5.8) \\ \hline \end{array}$ | Nylon 6.6 | Natural | Indoors | User Supplied Adhesive | 100 | 1000 | 1000 | 10000 |
| TM2A-C | M, I, S | $\begin{gathered} .630 \\ (16.0) \end{gathered}$ | $\begin{gathered} .425 \\ (10.8) \end{gathered}$ | $\begin{aligned} & \hline .275 \\ & (7.0) \\ & \hline \end{aligned}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| TM3A-C | $\underset{\text { M, I, S, HS }}{\substack{\text { LH }}}$ | $\begin{gathered} .875 \\ (22.2) \\ \hline \end{gathered}$ | $\begin{gathered} .620 \\ (15.8) \\ \hline \end{gathered}$ | $\begin{array}{r} .375 \\ (9.5) \\ \hline \end{array}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |

## PANDUIT ${ }^{\text {® }}$ Cable Tie Mounts

## Screw Applied Tie Anchor Mounts

Low profile and versatile, these screw-installed mounts can be ideal for applications where space is limited. Designed for four-way cable tie insertion, this mount can be mounted in-line or perpendicular to the wire bundle.

## TA1 Anchor



| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| TA1S8-C | M, I, S | $\begin{gathered} .75 \\ (19.0) \end{gathered}$ | $\begin{gathered} .38 \\ (9.5) \end{gathered}$ | $\begin{gathered} .20 \\ (5.1) \end{gathered}$ | $\begin{gathered} .17 \\ (4.3) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | \#8 (M4) Screw | 100 | 500 | 1000 | 5000 |
| TA1S8-M0 |  |  |  |  |  | Weather Resistant Nylon 6.6 | Black |  |  | - | - | 1000 | 5000 |
| TA1S8-M30 |  |  |  |  |  | Heat Stabilized Nylon | Black |  |  | - | - | 1000 | 5000 |
| TA1S8-M69 |  |  |  |  |  | Flame Retardant Nylon 6.6 | Natural |  |  | - | - | 1000 | 5000 |
| TA1S10-C |  |  |  |  | $\begin{gathered} .20 \\ (5.1) \end{gathered}$ | Nylon 6.6 | Natural |  | \#10 (M5) Screw | 100 | 500 | 1000 | 5000 |
| TA1S10-M0 |  |  |  |  |  | Weather Resistant Nylon 6.6 | Black |  |  | - | - | 1000 | 5000 |

## TA2 Anchor



This mount is installed perpendicular to the wire bundle. Elongated slot permits installing the screw and adjusting mount position with the bundle attached.


|  |  |  |  |  |  |  | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) | Material | Color | Where Used | Mounting Method | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| TA2-C | M, I, S | See Drawing | Nylon 6.6 | Natural | Indoors | \#10 (M5) Screw | 100 | 500 | 1000 | 5000 |

## Screw Applied Low Profile Mounts


${ }_{\mathrm{c}}^{\boldsymbol{7} \mathrm{N}_{\mathrm{us}}}$

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D |  |  |  |  | Std. <br> Pkg <br> Qty. | $\begin{aligned} & \text { Std. } \\ & \text { Ctn. } \\ & \text { Qty. } \end{aligned}$ | Bulk Pkg. Qty. | $\begin{aligned} & \hline \text { Bulk } \\ & \text { Ctn. } \\ & \text { Qty. } \end{aligned}$ |
| LPMM-S2-C | M | $\begin{gathered} .40 \\ (10.2) \end{gathered}$ | $\begin{gathered} \hline .32 \\ (8.1) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .10 \\ (2.5) \end{gathered}$ | $\begin{aligned} & .0951 \\ & (2.4) \end{aligned}$ | Nylon 6.6 | Natural | Indoors | $\begin{gathered} \hline \text { \#2 (M2) } \\ \text { Flathead Screw } \end{gathered}$ | 100 | 1000 | 1000 | 10,000 |
| LPMM-S5-C | M | $\begin{gathered} .40 \\ (10.2) \end{gathered}$ | $\begin{gathered} .32 \\ (8.1) \end{gathered}$ | $\begin{gathered} .10 \\ (2.5) \end{gathered}$ | $\begin{aligned} & .130^{2} \\ & (3.3) \end{aligned}$ |  |  | Indoors | \#5 (M3) Flathead Screw | 100 | 1000 | 1000 | 10,000 |
| LPMS-S8-C | M, I, S | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} .12 \\ \hline(3.0) \end{gathered}$ | $\begin{aligned} & .170^{2} \\ & (4.3) \end{aligned}$ |  |  | Indoors | \#8 (M4) Flathead Screw | 100 | 1000 | 1000 | 5000 |

NOTE 1: Combination Counterbore and Countersunk Hole (.088" (2.2) Dia. rivet can also be used).
NOTE 2: Countersunk Hole

## Knock-In Low <br> Profile Mounts



Secures wires to any pre-drilled panel. Can be installed in any panel thickness. Eliminates screws.

Easy to Install:

1. Push rivet in pre-drilled panel hole.
2. Use PANDUIT ${ }^{\oplus}$ Rivet Installation Tool (TNR) or hammer to drive the pin flush to the base. This drives the rivet into the hole and secures the mount.

3. Attach wires to the mount with cable tie.

|  | Used With Cable Ties** | A | Dimensions in. (mm) | Hole Size | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number $\ddagger$ |  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| KIMS-H366-C2 | M, I, S | $\begin{aligned} & .155 \\ & (3.9) \\ & \hline \end{aligned}$ | See Drawing | $\begin{aligned} & \hline .144 \\ & (3.7) \\ & \hline \end{aligned}$ | Nylon 6.6 | Red | Indoors | Integral Push Rivet | 100 | 500 | 1000 | 5000 |
| KIMS-H430-C6 | M, I, S | $\begin{aligned} & .180 \\ & (4.6) \end{aligned}$ | See Drawing | $\begin{aligned} & .169 \\ & (4.3) \end{aligned}$ | Nylon 6.6 | Blue |  | Integral Push Rivet | 100 | 1000 | 1000 | 5000 |
| KIMS-H500-C4 | M, I, S | $\begin{aligned} & .202 \\ & (5.1) \end{aligned}$ | See Drawing | $\begin{aligned} & 196 \\ & .15 .0) \end{aligned}$ | Nylon 6.6 | Yellow |  | Integral Push Rivet | 100 | 500 | 1000 | 5000 |

## Panduli <br> Cable Tie Plates

Tie Plates


Screw applied. Each tie plate has a slotted mounting hole to accommodate various fastener spacings.

${ }_{c}$

| Part <br> Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  |  |  |  |  | Color \& Material | Where Used | Mounting Method Screw Size | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E | F | G |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| TP2-C | M, I, S, HS | $\begin{gathered} 1.98 \\ (50.3) \\ \hline \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{aligned} & .125 \\ & (3.2) \\ & \hline \end{aligned}$ | $\begin{array}{r} .200 \\ (5.1) \\ \hline \end{array}$ | $\begin{gathered} .40 \\ (10.2) \\ \hline \end{gathered}$ | $\begin{aligned} & .200 \\ & (5.1) \\ & \hline \end{aligned}$ | $\begin{gathered} 1.60 \\ (40.6) \\ \hline \end{gathered}$ | Natural Nylon 6.6 | Indoors | \#10 (M5) | 100 | 1000 | 1000 | 5000 |
| TP4H-C |  | $\begin{gathered} 3.08 \\ (78.2) \\ \hline \end{gathered}$ | $\begin{gathered} .62 \\ (15.7) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline .203 \\ & (5.2) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline .270 \\ & (6.9) \\ & \hline \end{aligned}$ | $\begin{array}{r} .31 \\ (7.9) \\ \hline \end{array}$ | $\begin{aligned} & \hline .270 \\ & (6.9) \\ & \hline \end{aligned}$ | $\begin{gathered} 2.50 \\ (63.5) \\ \hline \end{gathered}$ |  |  | 1/4 (M6) | 100 | 1000 | 500 | 2500 |




Ta-2%
Ta-2%








| Part Number $\ddagger$ | No. of BdIs. | Used <br> With <br> Cable <br> Ties** | Dimensions in. (mm) |  |  |  |  |  |  <br> Where Used | Mil. Std. <br> Part No. | Mounting Method Screw Size | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A | B | C | D | E | F |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| MTP1S-E6-C | 1 | M, I, S | 1.75 | . 50 | $\begin{aligned} & \hline .125 \\ & (3.2) \end{aligned}$ | $\begin{gathered} 1.25 \\ (31.8) \end{gathered}$ | . 220 (5.58) | . 147 (3.73) | Natural Nylon 6.6, Indoors | MS3339-1- | \#6 (M3) |  | - | 100 | 1000 |
| MTP1S |  |  | (44.5) | (12.7) |  |  | . 330 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| $\begin{aligned} & \text { MTP1H-E6-C } \\ & \text { MTP1H-E10-C } \end{aligned}$ |  | $\begin{array}{\|c\|} \hline \text { M, I, S, } \\ \text { HS, LH, H } \end{array}$ | 2.09 | 62 | $\begin{aligned} & \hline .203 \\ & (5.2) \end{aligned}$ | $\begin{gathered} \hline 1.50 \\ (38.1) \end{gathered}$ | . 220 (5.58) | . 147 (3.73) |  | MS3339-6 <br> - | \#6 (M3) | - | - | 100 | 1000 |
|  |  |  | (53.1) | (15.7) |  |  | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| MTP2S-E6-C | 2 | M, I, S | 3.00 | . 50 | . 125 | $\begin{gathered} \hline 1.25 \\ (31.8) \end{gathered}$ | . 220 (5.58) | . 147 (3.73) |  | MS3339-2 <br> - | \#6 (M3) | - | - | 100 | 1000 |
| MTP2S-E10-C |  |  | (76.2) | (12.7) | (3.2) |  | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| MTP2H-E6-C |  | M, I, S | 3.59 | . 62 | . 203 | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | . 220 (5.58) | .147(3.73) |  | $\begin{gathered} \hline \text { MS3339-7 } \\ - \end{gathered}$ | \#6 (M3) |  | - | 100 | 1000 |
| MTP2H-E10-C |  | HS, LH, H | (91.2) | (15.7) | (5.2) |  | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| MTP3S-E6-C | 3 | M, I, S | 4.25 | . 50 | . 125 | $\begin{gathered} 1.25 \\ (31.8) \end{gathered}$ | . 220 (5.58) | . 147 (3.73) |  | MS3339-3 | \#6 (M3) | - | - | 100 | 1000 |
| MTP3S-E10-C |  |  | (108.0) | (12.7) | (3.2) |  | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| MTP3H-E6-C |  | M, I, S, | 5.09 | . 62 | . 203 | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | . 220 (5.58) | . 147 (3.73) |  | $\begin{array}{\|c\|} \hline \text { MS3339-8 } \\ - \\ \hline \end{array}$ | \#6 (M3) |  | - | 100 | 1000 |
|  |  | HS, LH, H | (129.3) | (15.7) | (5.2) |  | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| MTP4S-E6-C | 4 | M, I, S | 5.50 | . 50 | . 125 | $\begin{gathered} 1.25 \\ (31.8) \end{gathered}$ | . 220 (5.58) | . 147 (3.73) |  | MS3339-4 | \#6 (M3) | - | - | 100 | 1000 |
| MTP4S-E10-C |  |  | (139.7) | (12.7) | (3.2) |  | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| MTP4H-E6-C |  | M, I, S, | 6.59 | . 62 | . 203 | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | . 220 (5.58) | . 147 (3.73) |  | $\begin{gathered} \text { MS3339-9 } \\ - \end{gathered}$ | \#6 (M3) | - | - | 100 | 1000 |
| MTP4H-E10-C |  | HS, LH, H | (167.4) | (15.7) | (5.2) |  | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| MTP5S-E6-C | 5 | M, I, S | 6.75 | . 50 | . 125 | 1.25 | . 220 (5.58) | . 147 (3.73) |  | $\begin{gathered} \text { MS3339-5 } \\ - \\ \hline \end{gathered}$ | \#6 (M3) | - | - | 100 | 1000 |
| MTP5S-E10-C |  |  | (171.5) | (12.7) | (3.2) | (31.8) | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| MTP5H-E6-C |  | M, I, S, | 8.09 | . 62 | $\begin{aligned} & .203 \\ & (5.2) \end{aligned}$ | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | . 220 (5.58) | . 147 (3.73) |  | MS3339-10 <br> - | \#6 (M3) |  | - | 100 | 1000 |
| MTP5H-E10-C |  | HS, LH, H | (205.5) | (15.7) |  |  | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |
| MTP6H-E6-C |  | M, I, S, | 9.59 | . 62 |  |  | . 220 (5.58) | . 147 (3.73) |  | MS3339-11 <br> - | \#6 (M3) | - | - | 100 | 1000 |
| MTP6H-E10-C | 6 | HS, LH, H | (243.6) | (15.7) |  |  | . 300 (7.62) | . 200 (5.08) |  |  | \#10 (M5) |  |  | 100 | 1000 |

$\ddagger$ Part Numbers listed are for Standard Materials in Standard Package Quantity. For Bulk package part numbers, see page 137-138.
${ }^{* *}$ Cable Tie Cross Section Sizes: $M=$ Miniature, $I=$ Intermediate, $S=$ Standard, $H S=$ Heavy Standard, $L H=$ Light-Heavy and $H=$ Heavy.

- For use with most common screw types except flat head.

Right Angle Mounts


Secure wire bundles that run through bulkheads or cabinet holes, holding them away from sharp edges. Can also be used to mount wire bundles adjacent to any surface. Screw or rivet applied.

${ }^{c} \mathrm{ND}_{\mathrm{us}}$

| Part Number | Used <br> With <br> Cable <br> Ties** | Dimensions in. (mm) |  |  |  |  |  |  <br> Where Used | Mil. Std. Part No. | Mounting Method in. (mm) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E | F |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| RAMS-S3-M | M, I, S | $\begin{gathered} .56 \\ (14.2) \end{gathered}$ | $\begin{gathered} .39 \\ (9.9) \end{gathered}$ | $\begin{gathered} .44 \\ (11.2) \end{gathered}$ | $\begin{aligned} & .095 \\ & (2.4) \end{aligned}$ | $\begin{gathered} .06 \\ (1.5) \end{gathered}$ | $\begin{aligned} & .281 \\ & (7.1) \end{aligned}$ |  | MS3341-2 | \#3 (M2.5) Screw or 3/32 (2.4) Round Head Rivet | - | - | 1000 | 5000 |
| RAMH-S6-D | M, I, S, HS, | 1.00 |  |  | $\begin{aligned} & .125 \\ & (3.2) \end{aligned}$ | . 18 | . 500 | Natural Nylon 6.6, Indoors | MS3341-1 | \#6 (M3) Screw or 1/8 (3.2) Round Head Rivet | - | - | 500 | 5000 |
| RAMH-S10-D | LH and H | (25.4) | (19.1) | (25.4) | $\begin{aligned} & .200 \\ & (5.1) \end{aligned}$ | (4.6) | (12.7) |  | - | \#10 (M5) Screw or 3/16 (4.7) Round Head Rivet | - | - | 500 | 5000 |

## Lightening Hole Mounts



Used to secure wire bundles which run through bulkhead lightening holes (.87" ( 22.1 mm ) diameter or larger) and keep bundles away from sharp edges. Only one screw or rivet needed.


| Part Number | Used With Cable Ties** | Dimensions in. (mm) |  <br> Where Used | Mil. Std. <br> Part No. | Mounting Method in. (mm) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | D |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty.* | Bulk Ctn. Qty. |
| LHMS-S5-D | M, I, S | $\begin{aligned} & .127 \\ & (3.2) \end{aligned}$ | Natural Nylon 6.6, Indoors | - | $\begin{gathered} \text { \#5 (M3) Screw } \\ \text { or 1/8 (3.2) } \\ \text { Rivet } \end{gathered}$ | - | - | 500 | 2500 |
| LHMS-S6-D |  | $\begin{aligned} & \hline .145 \\ & (3.7) \end{aligned}$ |  | MS3340-1 | $\begin{gathered} \text { \#6 (M3) Screw } \\ \text { or 9/64 (3.5) } \\ \text { Rivet } \end{gathered}$ | - | - | 500 | 2500 |
| LHMS-S10-D |  | $\begin{aligned} & \hline .192 \\ & (4.9) \end{aligned}$ |  | - | $\begin{gathered} \hline \text { \#10 (M5) Screw } \\ \text { or 3/16 (4.7) } \\ \text { Rivet } \end{gathered}$ | - | - | 500 | 2500 |

## Metal Clip-On Mounts



The mount clips on sheet metal edges for fast mounting of harnesses with cable ties. Ties may be inserted from any of the four sides for easy harness orientation.


| Part Number | Used With Cable Ties** | Dimensions in. (mm) |  |  | Max. <br> Panel Thickness | Material | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| MCMS12-P-C | M, I, S | $\begin{gathered} .88 \\ (22.4) \end{gathered}$ | $\begin{gathered} .56 \\ (14.2) \end{gathered}$ | $\begin{gathered} .31 \\ (8.0) \\ \hline \end{gathered}$ | $\begin{array}{r} \hline .13 \\ (3.2) \\ \hline \end{array}$ | Zinc Plated Steel | Indoors or Outdoors | Clip-On | - | - | 100 | 500 |
| MCMS25-P-C |  |  |  | $\begin{gathered} .46 \\ (11.5) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 24 \\ (6.1) \\ \hline \end{gathered}$ |  |  |  | - | - | 100 | 500 |
| MCMS30-P-C |  |  |  | $\begin{gathered} .55 \\ (14.0) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 27 \\ (6.9) \\ \hline \end{gathered}$ |  |  |  | - | - | 100 | 500 |

## Metal Mount



Screw applied aluminum mounting base for a secure support in demanding applications.


- NOTE: Mount can also be installed with a user supplied adhesive

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  | Material | Where Used | Mounting Method | Max. Static Load lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| MBMS-S10-C | M, I, S | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} .14 \\ (3.6) \end{gathered}$ | Aluminum (Chromate Coated) MIL C. 5541 D Class 3 Coating | Indoors or Outdoors | \#10 (M5) Screw | 10 (4540) | 100 | 1000 | 1000 | 10000 |

## PaNDUIT ${ }^{\circ}$ <br> Cable Tie Mounts

Push Mounts Winged Push Mounts

Push mounts require no adhesive or additional mounting hardware. They are inserted into pre-drilled holes. The winged base applies pressure on the panel wall to provide a more secure mount in high vibration applications. Can be used where only one side of the panel is accessible.


TM2PWH25

${ }^{-10} \mathrm{~N}_{\mathrm{us}}$

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) | Panel Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Thickness Max. | Hole Diameter |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| PWMS-H25-C | M, I, S | See Drawing | $\begin{aligned} & .105 \\ & (2.7) \end{aligned}$ | $\begin{aligned} & .250 \\ & (6.4) \end{aligned}$ | Nylon 6.6 | Natural | Indoors | Inserted into Pre-Drilled Hole | 100 | 1000 | 1000 | 5000 |
| PWMS-H25-M0 |  |  |  |  | Weather Resistant Nylon 6.6 | Black | Outdoors |  | - | - | 1000 | 5000 |
| TM2PWH25-C |  |  | $\begin{array}{r} .094 \\ (2.3) \\ \hline \end{array}$ |  | Nylon 6.6 | Natural | Indoors |  | 100 | 500 | 1000 | 5000 |

Part number shown for PWMS-H25-C and TM2PWH25-C is standard package quantity.


This part is a version of the mount shown above, but without tensioning wings.

| Part Number $\ddagger$ | Used <br> With <br> Cable Ties** | Dimensions in. (mm) | Panel Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Thickness Max. | Hole Diameter |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| PM2H25-C | M, I, S | See Drawing | $\begin{aligned} & .125 \\ & (3.2) \end{aligned}$ | $\begin{aligned} & .250 \\ & (6.4) \end{aligned}$ | Nylon 6.6 | Natural | Indoors | Inserted into Pre-Drilled Hole | 100 | 500 | 1000 | 5000 |
| PM2H25-M0 |  |  |  |  | Weather Resistant Nylon 6.6 | Black | Outdoors |  | - | - | 1000 | 5000 |
| PM2H25-M30 |  |  |  |  | Heat Stabilized Nylon 6.6 |  | Indoors |  | - | - | 1000 | 5000 |

Part number shown for PM2H25-C is standard package quantity.

## Push Button Mounts



Designed for use where both sides of the panel are accessible.

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) | Panel Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Thickness Max. | Hole Diameter |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| PBMS-H25-C | M, I, S | See Drawing | $\begin{aligned} & .125 \\ & (3.2) \end{aligned}$ | $\begin{gathered} .25 \\ (6.4) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | Inserted into Pre-Drilled Hole | 100 | 500 | 1000 | 5000 |
| PBMS-H25-C14 |  |  |  |  |  | Gray |  |  | 100 | 500 | 1000 | 5000 |
| PBMS-H25-M0 |  |  |  |  | Weather Resistant Nylon 6.6 | Black | Outdoors |  | - | - | 1000 | 5000 |
| PBMS-H25-M30 |  |  |  |  | Heat Stabilized Nylon 6.6 |  | Indoors |  | - | - | 1000 | 5000 |

[^6]Used to secure wire, cable or tubing to masonry surfaces. Installed quickly into pre-drilled holes. Holds bundle securely.


| Part Number $\ddagger$ | Used <br> With <br> Cable Ties** | Dimensions in. (mm) |  |  | Hole Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | Drill Depth | Hole Diameter |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| MPMS19-C0 | M, I, S | $\begin{gathered} .97 \\ (24.6) \end{gathered}$ | $\begin{gathered} .25 \\ (6.4) \end{gathered}$ | $\begin{gathered} .22 \\ (5.6) \end{gathered}$ | $\begin{gathered} 1.25 \\ (31.8) \end{gathered}$ | $\begin{aligned} & .188 \\ & (5) \\ & \hline \end{aligned}$ | Impact <br> Modified <br> Weather- <br> Resistant <br> Nylon 6.6 | Black | Outdoors or Indoors | Inserted into Pre-Drilled Hole | 100 | 500 | 1000 | 5000 |
| MPMS25-C0 |  |  |  |  |  | $\begin{aligned} & .25 \\ & (6) \\ & \hline \end{aligned}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| MPMH38-L0 | M, I, S, HS, LH, H, and HLM | $\begin{array}{\|c\|} \hline 1.25 \\ (31.8) \\ \hline \end{array}$ | $\begin{gathered} .30 \\ (7.5) \\ \hline \end{gathered}$ | $\begin{gathered} .38 \\ (9.6) \end{gathered}$ | $\begin{gathered} 1.50 \\ (38.1) \\ \hline \end{gathered}$ | $\begin{aligned} & .375 \\ & (10) \\ & \hline \end{aligned}$ |  |  |  |  | 50 | 500 | 500 | 5000 |
| MPMWH32-L0 |  | $\begin{array}{r} 1.41 \\ (35.8) \end{array}$ | $\begin{gathered} .28 \\ (7.1) \\ \hline \end{gathered}$ |  | $\begin{gathered} 1.75 \\ (44.5) \\ \hline \end{gathered}$ | $\begin{gathered} .313 \\ (8) \\ \hline \end{gathered}$ |  |  |  |  | 50 | 500 | 500 | 5000 |

## Wood Push Mount



Used to secure wire, cable, or tubing to wood surfaces. Driven into wood with hammer, barbed design holds mount in place rated for 60 lb . pullout.


|  | sed | Dimensions in. (mm) |  |  |  |  | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | With <br> Cable <br> Ties** | A | B | C | D | Material |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| WPMH-C | M, I, S, HS, LH, H, and HLM | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ | $\begin{gathered} .31 \\ (7.9) \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} \hline .19 \\ (4.8) \end{gathered}$ | 16 gauge steel zinc plated | Outdoors or Indoors | Hammer into Wood | 100 | 500 | - | - |

Tie Harness Mounts


Tie Harness Mounts are designed to be attached to the wire harness during assembly with 2 cable ties. Ties can be installed by hand or, more efficiently, with PANDUIT ${ }^{\circledR}$ PAT Automatic Cable Tie Tooling (see page 60). Use with Harness Board Standoff Post (page 129). Available with or without corrugated loom tubing location tab.


THMSP — Push Barb Style


THMSC - Tree Barb Style

FOR CORRUGATED TUBING - A specially designed location tab on the mount shelf aligns with grooves in corrugated tubing ensuring proper mount location during assembly.

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  | Panel Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | Thickness Max. | Hole Diameter |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| THMSP20-C | M, I, S | $\begin{gathered} 1.54 \\ (39.1) \end{gathered}$ | $\begin{gathered} .37 \\ (9.5) \end{gathered}$ | $\begin{gathered} .47 \\ (11.9) \end{gathered}$ | $\begin{array}{r} .16 \\ (4.1) \end{array}$ | $\begin{aligned} & .244-.283 \\ & (6.2-7.2) \end{aligned}$ | Nylon 6.6 | Natural | Indoors | Push Barb | 100 | 1000 | - | - |
| THMSP20-C30 |  |  |  |  |  |  | Heat Stabilized Nylon 6.6 | Black | Indoors/ High Temp. |  | 100 | 1000 | - | - |
| THMSP25-C |  |  |  |  |  |  | Nylon 6.6 | Natural | Indoors |  | 100 | 1000 | 1000 | 5000 |
| THMSP25-C30 |  |  |  | $\begin{gathered} .54 \\ (13.7) \end{gathered}$ | $\begin{gathered} .23 \\ (5.8) \end{gathered}$ |  | Heat Stabilized Nylon 6.6 | Black | Indoors/ High Temp. |  | 100 | 1000 | 1000 | 5000 |
| THMSC35-C639 |  |  |  | $\begin{gathered} .46 \\ (11.7) \end{gathered}$ | $\begin{array}{r} .25 \\ (6.4) \end{array}$ | $\begin{aligned} & 244-.268 \\ & (6.2-6.8) \end{aligned}$ | Heat Stabilized Nylon 6 | Natural |  | Tree Barb | 100 | 1000 | 1000 | 5000 |
| THMSC35-C630 |  |  |  |  |  |  |  | Black |  |  | 100 | 1000 | 1000 | 5000 |

FOR DISCRETE WIRING - There is no location tab for applications not requiring the use of corrugated tubing.

| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  |  | Panel Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | Thickness Max. | Hole Diameter |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| THMSP20F-C | M, I, S | $\begin{gathered} 1.54 \\ (39.1) \end{gathered}$ | $\begin{gathered} .37 \\ (9.5) \end{gathered}$ | $\begin{gathered} .47 \\ (11.9) \end{gathered}$ | $\begin{aligned} & .16 \\ & (4.1) \end{aligned}$ | $\begin{aligned} & .244-.283 \\ & (6.2-7.2) \end{aligned}$ | Nylon 6.6 | Natural | Indoors | Push Barb | 100 | 1000 | - | - |
| THMSP20F-C30 |  |  |  |  |  |  | Heat Stabilized Nylon 6.6 | Black | Indoors/ High Temp. |  | 100 | 1000 | - | - |
| THMSP25F-C |  |  |  | $\begin{gathered} .54 \\ (13.7) \end{gathered}$ | $\begin{gathered} .23 \\ (5.8) \end{gathered}$ |  | Nylon 6.6 | Natural | Indoors |  | 100 | 1000 | - | - |
| THMSP25F-C30 |  |  |  |  |  |  | Heat Stabilized Nylon 6.6 | Black | Indoors/ High Temp. |  | 100 | 1000 | 1000 | 5000 |
| THMSC35F-C639 |  |  |  | $\begin{gathered} .46 \\ (11.7) \end{gathered}$ | $\begin{gathered} .25 \\ (6.4) \end{gathered}$ | $\begin{aligned} & .244-.268 \\ & (6.2-6.8) \end{aligned}$ | Heat Stabilized Nylon 6 | Natural | Indoors/ High Temp. | Tree Barb | 100 | 1000 | 1000 | 5000 |
| THMSC35F-C630 |  |  |  |  |  |  |  | Black |  |  |  |  |  |  |

## THM1SC Tie Harness Mount for Single Cable Tie Unique Mount is Attached to Harness Automatically as Tie is Installed



- Secured with only 1 cable tie
- Can be used with auto-fed or loose piece cable ties
- Cable ties can be installed by hand with PANDUIT ${ }^{\oplus}$ Automatic Cable Tie Tooling Installation Systems (see page 60) or pneumatic tool (page 58) or hand operated cable tie tools (page 56)
- Winged design prevents vibration
- Barb design is easy to insert into pre-drilled hole
- 50 lb . vertical extraction force from . 250 " hole


|  | Used With Cable Ties** | Dimensions in. (mm) |  |  | Panel Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number $\ddagger$ |  | A | B | C | Thickness Max. | Hole Diameter |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| THM1SC-C |  |  |  |  |  |  | Nylon 6.6 | Natural | Indoors |  | 100 | 1000 | 1000 | 5000 |
| THM1SC-C30 | M, I, S | $\begin{gathered} .98 \\ (24.8) \end{gathered}$ | $\begin{gathered} .38 \\ (9.5) \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ | $\begin{aligned} & .187 \\ & (4.7) \end{aligned}$ | $\begin{aligned} & .250 \\ & (6.5) \end{aligned}$ | Heat Stabilized Nylon 6.6 | Black | Indoors/ High Temp. | Tree Barb | 100 | 1000 | 1000 | 5000 |

## PaNDuIT ${ }^{\circ}$ <br> Cable Tie Mounts

Control Panel Mount


Installed behind control panel switch. Ideal for high strain areas where cable is routed from panel door to panel. Compatible with most control panel switch designs.


| Part Number | Used With Cable Ties** | Dimensions in. (mm) |  |  |  |  |  |  |  | Material | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E | F | G | H |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| CPM87S-C | M, I, S | $\begin{gathered} .89 \\ (22.6) \end{gathered}$ | $\begin{gathered} .57 \\ (14.5) \end{gathered}$ | $\begin{gathered} 1.44 \\ (36.6) \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ | $\begin{aligned} & .048 \\ & (1.2) \end{aligned}$ | $\begin{gathered} .17 \\ (4.3) \end{gathered}$ | $\begin{gathered} \hline .76 \\ (19.3) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \\ \hline \end{gathered}$ | Zinc Plated Steel | Control Panel Switch | - | - | 100 | 1000 |
| CPM122S-C |  | $\begin{gathered} 1.22 \\ (31.0) \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ | $\begin{gathered} 2.07 \\ (52.6) \end{gathered}$ | $\begin{gathered} 1.12 \\ (28.4) \end{gathered}$ |  |  | $\begin{gathered} .82 \\ (20.8) \end{gathered}$ | $\begin{gathered} 1.12 \\ (28.4) \end{gathered}$ |  |  | - | - | 100 | 1000 |

Pan-Post ${ }^{\text {TM }}$ Standoff


Supports wire bundles above or away from surface.



| Part Number $\ddagger$ | Used With Cable Ties** | Dimensions in. (mm) |  | Color$\&$Material | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| PP1S-S10-X | M, I, S | $\begin{aligned} & .200 \\ & (5.1) \end{aligned}$ | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | Natural Nylon 6.6 | \#10 (M5) <br> Screw | 10 | 50 | 100 | 1000 |
| PP1S-S12-X |  | $\begin{aligned} & \hline .228 \\ & (5.8) \\ & \hline \end{aligned}$ |  |  | \#12 (M5.5) Screw | 10 | 50 | 100 | 1000 |
| PP2S-S10-X |  | $\begin{aligned} & \hline 200 \\ & (5.1) \end{aligned}$ | $\begin{gathered} 4.60 \\ (116.8) \end{gathered}$ |  | \#10 (M5) Screw | 10 | 50 | 100 | 1000 |
| PP2S-S12-X |  | $\begin{aligned} & \hline .228 \\ & (5.8) \\ & \hline \end{aligned}$ |  |  | \#12 (M5.5) Screw | 10 | 50 | 100 | 1000 |

## PANDUIT ${ }^{\circledR}$ Cable Tie Mounts

Right Angle Base RAFCB
For use in perpendicular applications. Supports cable above the mount surface.


|  |  |  |  |  |  |  |  |  | Pack | ing* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number $\ddagger$ | Cable Widths (Up to) | $\begin{gathered} \text { A } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { B } \\ \text { in. (mm) } \end{gathered}$ | $\begin{gathered} \text { C } \\ \text { in. (mm) } \end{gathered}$ | $\begin{gathered} \text { Color } \\ \text { \& } \\ \text { Material } \end{gathered}$ | Where Used | Mounting Method | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| RAFCBI1-S6-C20 | $\begin{array}{r} 1.00 \\ (25.4) \\ \hline \end{array}$ | $\begin{gathered} 1.75 \\ (44.4) \\ \hline \end{gathered}$ | $\begin{aligned} & .125 \\ & (3.2) \end{aligned}$ | $\begin{aligned} & .125 \\ & (3.2) \end{aligned}$ | Black <br> Nylon 6.6 | Indoors | \#6 (M3) Screw | 100 | 500 | 1000 | 5000 |
| RAFCBI2-S6-C20 | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{gathered} 2.78 \\ (70.6) \\ \hline \end{gathered}$ |  |  |  |  |  | 100 | 500 | 1000 | 4000 |
| RAFCBI3-S6-C20 | $\begin{gathered} 3.00 \\ (76.2) \end{gathered}$ | $\begin{gathered} 3.81 \\ (96.8) \\ \hline \end{gathered}$ |  |  |  |  |  | 100 | 500 | 1000 | 4000 |

Flat Cable Mounting System

Secures stacked cables, folds and breakouts as well as laminated and molded bus bars.


Mounting Application
Use one base, one corresponding size plate and one intermediate cable tie.



Bundling Application
Use two plates (same size) and one intermediate cable tie.

| Part Number $\ddagger$ | For Flat Cable Widths (Up to) | Dimensions in. (mm) |  |  |  |  |  |  | Color \& Material | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E | F | G |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| FCBI1-S10-C20 | $\begin{gathered} 1.00 \\ (25.4) \\ \hline \end{gathered}$ | $\begin{gathered} 3.29 \\ (83.5) \\ \hline \end{gathered}$ | $\begin{gathered} 1.04 \\ (26.4) \\ \hline \end{gathered}$ | $\begin{gathered} 2.08 \\ (52.8) \\ \hline \end{gathered}$ | $\begin{aligned} & .150 \\ & (3.8) \\ & \hline \end{aligned}$ | $\begin{aligned} & .375 \\ & (9.5) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 200 \\ & (5.1) \\ & \hline \end{aligned}$ | $\begin{aligned} & .095 \\ & (2.4) \\ & \hline \end{aligned}$ | Black Nylon 6.6 | Indoors | \#10 (M5) <br> Screw | 100 | 1000 | 1000 | 5000 |
| FCBI2-S10-C20 | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 3.50 \\ (88.9) \end{gathered}$ | $\begin{gathered} 2.04 \\ (51.8) \\ \hline \end{gathered}$ | $\begin{gathered} 3.10 \\ (78.7) \end{gathered}$ | $\begin{aligned} & \hline .150 \\ & (3.8) \\ & \hline \end{aligned}$ | $\begin{aligned} & .375 \\ & (9.5) \end{aligned}$ | $\begin{aligned} & .200 \\ & (5.1) \end{aligned}$ | $\begin{aligned} & .095 \\ & (2.4) \\ & \hline \end{aligned}$ |  |  | \#10 (M5) Screw | 100 | 1000 | 1000 | 5000 |
| FCBI3-S10-C20 | $\begin{gathered} 3.00 \\ (76.2) \end{gathered}$ | $\begin{array}{\|c\|} \hline 4.52 \\ (114.8) \\ \hline \end{array}$ | $\begin{gathered} 3.04 \\ (77.2) \end{gathered}$ | $\begin{array}{\|c\|} \hline 4.12 \\ (104.6) \\ \hline \end{array}$ | $\begin{aligned} & .150 \\ & (3.8) \end{aligned}$ | $\begin{aligned} & .375 \\ & (9.5) \end{aligned}$ | $\begin{aligned} & .200 \\ & (5.1) \end{aligned}$ | $\begin{aligned} & .095 \\ & (2.4) \end{aligned}$ |  |  | \#10 (M5) <br> Screw | 100 | 1000 | 1000 | 5000 |
| FCBI1-A-C20 | $\begin{gathered} 1.00 \\ (25.4) \\ \hline \end{gathered}$ | $\begin{gathered} 3.29 \\ (83.5) \\ \hline \end{gathered}$ | $\begin{gathered} 1.04 \\ (26.4) \\ \hline \end{gathered}$ | $\begin{gathered} 2.08 \\ (52.8) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline 150 \\ & (3.8) \\ & \hline \end{aligned}$ | $\begin{aligned} & .375 \\ & (9.5) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 200 \\ & (5.1) \\ & \hline \end{aligned}$ | $\begin{aligned} & .095 \\ & (2.4) \\ & \hline \end{aligned}$ | Black Nylon 6.6 | Indoors | Adhesive Backed | 100 | 1000 | 1000 | 5000 |
| FCBI2-A-C20 | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{gathered} 3.50 \\ (88.9) \end{gathered}$ | $\begin{gathered} 2.04 \\ (51.8) \end{gathered}$ | $\begin{gathered} 3.10 \\ (78.7) \end{gathered}$ | $\begin{aligned} & .150 \\ & (3.8) \end{aligned}$ | $\begin{aligned} & .375 \\ & (9.5) \end{aligned}$ | $\begin{aligned} & .200 \\ & (5.1) \end{aligned}$ | $\begin{aligned} & .095 \\ & (2.4) \\ & \hline \end{aligned}$ |  |  | Adhesive Backed | 100 | 1000 | 1000 | 5000 |
| FCBI3-A-C20 | $\begin{gathered} 3.00 \\ (76.2) \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 4.52 \\ (114.8) \\ \hline \end{array}$ | $\begin{gathered} 3.04 \\ (77.2) \end{gathered}$ | $\begin{array}{\|c\|} \hline 4.12 \\ (104.6) \\ \hline \end{array}$ | $\begin{aligned} & \hline 150 \\ & (3.8) \\ & \hline \end{aligned}$ | $\begin{aligned} & .375 \\ & (9.5) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 200 \\ & \text { (5.1) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline .095 \\ & (2.4) \\ & \hline \end{aligned}$ |  |  | Adhesive Backed | 100 | 1000 | 1000 | 5000 |
| FCPI1-C20 | $\begin{gathered} 1.00 \\ (25.4) \\ \hline \end{gathered}$ | $\begin{gathered} 1.29 \\ (32.8) \\ \hline \end{gathered}$ | $\begin{gathered} 1.04 \\ (26.4) \\ \hline \end{gathered}$ | $\begin{array}{r} .375 \\ (9.5) \\ \hline \end{array}$ | - | - | $\begin{array}{r} .200 \\ (5.1) \\ \hline \end{array}$ | - | Black Nylon 6.6 | Indoors | Cable Ties | 100 | 1000 | 1000 | 5000 |
| FCP12-C20 | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | $\begin{gathered} 2.31 \\ (58.7) \\ \hline \end{gathered}$ | $\begin{gathered} 2.04 \\ (51.8) \\ \hline \end{gathered}$ | $\begin{array}{r} .375 \\ (9.5) \\ \hline \end{array}$ | - | - | $\begin{aligned} & \hline 200 \\ & \text { (5.1) } \\ & \hline \end{aligned}$ | - |  |  | Cable Ties | 100 | 1000 | 1000 | 5000 |
| FCP13-C20 | $\begin{gathered} 3.00 \\ (76.2) \\ \hline \end{gathered}$ | $\begin{gathered} 3.32 \\ (84.3) \\ \hline \end{gathered}$ | $\begin{gathered} 3.04 \\ (77.2) \\ \hline \end{gathered}$ | $\begin{array}{r} .375 \\ (9.5) \\ \hline \end{array}$ | - | - | $\begin{aligned} & \hline 200 \\ & (5.1) \end{aligned}$ | - |  |  | Cable Ties | 100 | 1000 | 1000 | 5000 |

## Closed Connector Rings



Connect multiple wire bundles or hang bundles from conduit, eliminating the need for saddle clamps.

| Part Number | Used With Cable Ties** | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn <br> Qty. |
| CR2-M | M, I, S | $\begin{gathered} \hline .33 \\ (8.4) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .24 \\ (6.1) \\ \hline \end{gathered}$ | $\begin{gathered} .20 \\ (5.1) \\ \hline \end{gathered}$ | Nylon 6.6 | Natural | Indoors | Cable Ties | - | - | 1000 | 10000 |
| CR4H-M | $\begin{aligned} & \text { M, I, S, } \\ & \text { HS, LH } \end{aligned}$ | $\begin{gathered} .57 \\ (14.5) \end{gathered}$ | $\begin{gathered} .36 \\ (9.1) \end{gathered}$ | $\begin{gathered} .30 \\ (7.6) \end{gathered}$ |  |  |  |  | - | - | 1000 | 10000 |
| CR4H-MO |  |  |  |  | Weather <br> Resistant Nylon <br> 6.6 | Black | Indoors/ Outdoors | Cable Ties | - | - | 1000 | 10000 |

Open Connector Ring


Designed to "add on" wire bundles without changing cable ties.


| Part Number | Used <br> With <br> Cable <br> Ties** | Dimensions in. (mm) | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Std. Pkg. Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| CROS-M | M, I, S | See Drawing | Nylon 6.6 | Natural | Indoors | Connects to M, I, S Cable Ties | - | - | 1000 | 5000 |

## Cable Spacers



Used to separate and/or hang wires, cable and hoses.


| Part Number | Used With Cable Ties** | Dimensions in. (mm) | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| CSH-D20 | $\begin{gathered} \text { M, I, S, HS, } \\ \text { LH, H } \end{gathered}$ | See Drawing | Nylon 6.6 | Black | Indoors | Cable Ties | - | - | 500 | 2500 |
| CSH-D0 |  |  | Weather Resistant Nylon 6.6 |  | Outdoors or Indoors |  | - | - | 500 | 2500 |

Cable Spacer - Cross


Connects two bundles at $90^{\circ}$. Provides .19" (4.8mm) space between bundles. Dual cradle design. Recommended max. bundle diameter (each) is .625" ( 15.9 mm ).


| Part Number | Used With Cable Ties** | DImensions in. (mm) | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| CSCS-M | M, I, S | See Drawing | Nylon 6.6 | Natural | Indoors | Cable Ties | - | - | 1000 | 10000 |

## Marking Pens



PX-10


PFX-0
PFX-2


|  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :--- | :---: | :---: | :--- | :---: | :---: |
| Part Number | Tip | Color |  | 144 |  |
| PX-0 | Regular | Black | Color of ink is color of pen. Reversible tip to extend life of pen. | 12 |  |
| PX-2 | Regular | Red |  | 144 |  |
| PX-10 | Regular | White | For marking black or other dark-colored parts. Color of tip denotes color. | 12 | 12 |
| PFX-0 | Fine | Black | For detailed marking on nylon surfaces. Color of cap and tip is color of ink. | 300 |  |
| PFX-2 | Fine | Red |  | 144 |  |

## PanIUIIT ${ }^{\circ}$ <br> Cable Tie Mounts

Marker Plates


PANDUIT ${ }^{\circledR}$ Marker Plates can be mounted in any direction, either vertically or horizontally as flags, tags, or wrap-around identification plates. They can be marked with nylon marking pens or hot stamped. See page 105 for marker pen information.


| Part Number $\ddagger$ | Used With Cable Ties | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| MP150-C | M, I, S | $\begin{gathered} 1.50 \\ (38.1) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.03 \\ (26.2) \end{gathered}$ | Nylon 6.6 | White | Indoors | Cable Ties | 100 | 500 | 1000 | 5000 |
| MP175-C |  | $\begin{gathered} 1.75 \\ (44.5) \end{gathered}$ | $\begin{gathered} \hline .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.28 \\ (32.5) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| MP200-C |  | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.53 \\ (38.4) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| MP250-C |  | $\begin{gathered} 2.50 \\ (63.5) \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \end{gathered}$ | $\begin{gathered} 2.03 \\ (51.6) \end{gathered}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| MP350-C |  | $\begin{gathered} 3.50 \\ (88.9) \end{gathered}$ | $\begin{gathered} \hline .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} 3.03 \\ (77.0) \end{gathered}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| MP250W 175-C |  | $\begin{gathered} 2.50 \\ (63.5) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.75 \\ (44.5) \\ \hline \end{array}$ | $\begin{gathered} 2.03 \\ (51.6) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| MP150-C0 | M, I, S | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | $\begin{gathered} \hline .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.03 \\ (26.2) \end{gathered}$ | Weather <br> Resistant Nylon 6.6 | Black | Outdoors | Weather Resistant Cable Ties | 100 | 500 | 1000 | 5000 |
| MP175-C0 |  | $\begin{gathered} 1.75 \\ (44.5) \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \end{gathered}$ | $\begin{gathered} 1.28 \\ (32.5) \end{gathered}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| MP200-C0 |  | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.53 \\ (38.4) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| MP250-C0 |  | $\begin{gathered} 2.50 \\ (63.5) \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \end{gathered}$ | $\begin{gathered} 2.03 \\ (51.6) \end{gathered}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |
| MP350-C0 |  | $\begin{gathered} 3.50 \\ (88.9) \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \end{gathered}$ | $\begin{gathered} 3.03 \\ (77.0) \end{gathered}$ |  |  |  |  | 100 | 500 | 1000 | 5000 |

## Marker Plates on Rolls



| Part Number | Used With Cable Ties | Dimensions in. (mm) |  |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| MP150-R | M, I, S | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.03 \\ (26.2) \end{gathered}$ | $\begin{array}{r} 1.69 \\ (42.9) \\ \hline \end{array}$ | Nylon 6.6 | White | Indoors | Cable Ties | - | - | 1000 | 5000 |
| MP175-R |  | $\begin{gathered} 1.75 \\ (44.5) \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.28 \\ (32.5) \\ \hline \end{array}$ | $\begin{gathered} 1.94 \\ (49.3) \\ \hline \end{gathered}$ |  |  |  |  | - | - | 1000 | 5000 |
| MP200-R |  | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.53 \\ (38.9) \\ \hline \end{array}$ | $\begin{array}{r} 2.19 \\ (55.6) \\ \hline \end{array}$ |  |  |  |  | - | - | 1000 | 5000 |
| MP250-R |  | $\begin{gathered} 2.50 \\ (63.5) \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} 2.03 \\ (51.6) \end{gathered}$ | $\begin{gathered} 2.69 \\ (68.3) \\ \hline \end{gathered}$ |  |  |  |  | - | - | 1000 | 5000 |

## Marker Plate Kits

|  |  | Std. <br> Pkg. <br> Qty. |
| :--- | :--- | :---: |
| Part Number | Description | 1 |
| MP150KIT-Q | Kit contains 25 MP150 marker plates, 1 PFX-0 marking pen. | 1 |
| MP250KIT-Q | Kit contains 25 MP250 marker plates, 1 PFXX marking pen. | 1 |
| MP350KIT-Q | Kit contains 25 MP350 marker plates, 1 PFX-0 marking pen. |  |

## PANDUIT ${ }^{\circledR}$ Outside Plant Products

## Stackable Cable Spacer

Just one part to inventory. Each spacer snaps by hand into another- increases spacer height by $1 / 2$ " increments. Because there is only one part, on-site sorting is eliminated. Can be used with up to $3 / 4$ " width lashed cable supports in parallel or perpendicular applications.



Used perpendicular to strand and cable


Used parallel to strand and cable


Underground application

| Part Number | Used With Cable Ties | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| SACS50-T100 | See Footnote | $\begin{array}{\|c\|} \hline 2.08 \\ (52.8) \end{array}$ | $\begin{array}{\|c\|} \hline 1.16 \\ (29.5) \end{array}$ | $\begin{gathered} \hline .50 \\ (12.7) \end{gathered}$ | Weather Resistant Polypropylene | Black | Outdoors | Cable Ties | - | - | 200 | 2000 |

Stackable Spacers may be installed using Weather-Resistant Lashing Ties (see page 15). Weather- Resistant Extra-Heavy and Light-Heavy Cable Ties (see page 15), and Stainless Steel Ties (see page 77).

Weather Resistant
Polypropylene Aerial Support Tie -
With integral 1/2"
(12.7mm) spacer

Designed to attach coax or telephone cable to the support strand $1 / 4^{\prime \prime}(6.4 \mathrm{~mm})$ or $5 / 16^{\prime \prime}(7.9 \mathrm{~mm})$ to form the expansion loop and keep equipment and cables clear of pole hardware. One-piece construction with integral spacer reduces inventory costs of separate spacer and bands and installs faster to lower the installed cost. Releasable and reusable.


|  |  |  |  | Head | Max. | Min. Loop | Recommended | Pack | ging* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Length A in. (mm) | Width B <br> in. (mm) | $\begin{array}{\|c} \text { Thickness } \\ \text { C } \\ \text { in. (mm) } \\ \hline \end{array}$ | $\begin{gathered} \text { Width } \\ \text { D } \\ \text { in. }(\mathrm{mm}) \\ \hline \end{gathered}$ | Bundle Dia. in. (mm) | Tensile Strength lbs. (N) | PANDUIT ${ }^{\text {® }}$ Installation Tool Part Number | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. |
| AST10-5-C100 | $\begin{gathered} 5.6 \\ (142) \\ \hline \end{gathered}$ | $\begin{gathered} .448 \\ (11.4) \end{gathered}$ | $\begin{array}{r} .055 \\ (1.4) \end{array}$ | $\begin{gathered} 1.16 \\ (29.5) \end{gathered}$ | $\begin{aligned} & 1.0 \\ & (25) \\ & \hline \end{aligned}$ | $\begin{gathered} 75 \\ (334) \end{gathered}$ | Hand Installed Only | 100 | 1000 |
| AST15-5-C100 | $\begin{gathered} 6.9 \\ (175) \\ \hline \end{gathered}$ |  |  |  | $\begin{array}{r} \hline 1.5 \\ (38) \\ \hline \end{array}$ |  |  | 100 | 1000 |
| AST20-5-C100 | $\begin{gathered} 8.4 \\ (214) \\ \hline \end{gathered}$ |  |  |  | $\begin{array}{r} \hline 2.0 \\ \text { (51) } \\ \hline \end{array}$ |  |  | 100 | 1000 |
| AST25-5-C100 | $\begin{array}{r} 10.0 \\ (254) \\ \hline \end{array}$ |  |  |  | $\begin{aligned} & \hline 2.5 \\ & (64) \end{aligned}$ |  |  | 100 | 1000 |



## Cable and Wire Mounting Devices (used without cable ties)



Wiring Accessories are an integral part of the PANDUIT ${ }^{\circledR}$ comprehensive selection of wire management products.

These accessories are one piece solutions that help provide the lowest installed cost for controlling, mounting and protecting wire and cable.
Mounting methods include:

- Adhesive-Backed
- Screw applied
- Rivet applied
- Push Mounts


## Adhesive Backed Mounting Devices



## Faster Liner Removal Speeds Installation and Lowers Installed Cost

- The adhesive backed mounts are offered either as one or two mounts per liner
- The two-up mounts are easily removed by bending the mounts away from the liner
- The individual mounts have a convenient tear tab for quick removal


## Clincher ${ }^{\text {TM }}$ Adjustable Releasable Clamp



This clamp provides a fast and convenient method of securing bundles from . 19 " ( 4.8 mm ) up to .69 " ( 17.5 mm ) diameter. It is available with adhesive backing or screw applied with one \#6 (M3) screw.


The Clincherim clamp is fast and easy to use. . .


Lift tab to release


| Part Number $\ddagger$ | Bundle Dia. <br> in. (mm) | Material | Color | Where Used | Mounting Method | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| ARC.68-A-Q | $\begin{gathered} .19-.69 \\ (4.8-17.5) \end{gathered}$ | Polypropylene | White | Indoors | Rubber Adhesive | $\begin{gathered} .50 \\ (227) \end{gathered}$ | 25 | 250 | 100 | 1000 |
| ARC.68-A-Q14 |  |  | Gray |  |  |  | 25 | 250 | 100 | 1000 |
| ARC.68-S6-Q |  |  | White |  | \#6 (M3) <br> Pan Head Screw | - | 25 | 250 | 100 | 1000 |
| ARC.68-S6-Q14 |  |  | Gray |  |  | - | 25 | 250 | 100 | 1000 |

.7

Adhesive Backed Cord Clips - ACC Type


Three sizes of clips to hold cords, tubing, cable, or wire bundles up to .62" ( 15.7 mm ) diameter. Bundles are easily snapped into or out of the clips.


| Part Number $\ddagger$ | Max. <br> Bundle Dia. <br> in. (mm) | Dimensions in. (mm) |  |  |  | Material | Color | Where Used | Adhesive Type | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. <br> Qty. |
| ACC19-A-C | $\begin{array}{r} .19 \\ (4.8) \end{array}$ | $\begin{gathered} .62 \\ (15.9) \end{gathered}$ | $\begin{gathered} .76 \\ (19.3) \end{gathered}$ | $\begin{gathered} .25 \\ (6.5) \end{gathered}$ | $\begin{gathered} .39 \\ (9.9) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | Rubber | $\begin{array}{r} .20 \\ (91) \end{array}$ | 100 | 500 | 1000 | 5000 |
| ACC19-AT-C |  |  |  |  |  | Nylon 6.6 | Natural | Indoors/ High Temp. | Acrylic |  | 100 | 500 | 1000 | 5000 |
| ACC19-A-C20 |  |  |  |  |  | Nylon 6.6 | Black | Indoors | Rubber |  | 100 | 500 | 1000 | 5000 |
| ACC19-AT-C0 |  |  |  |  |  | Weather Resistant Nylon 6.6 | Black | Outdoors/ High Temp. | Acrylic |  | 100 | 500 | 1000 | 5000 |
| ACC38-A-C | $\begin{gathered} .38 \\ (9.6) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} .27 \\ (6.9) \end{gathered}$ | $\begin{gathered} .49 \\ (12.4) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | Rubber | $\begin{gathered} .50 \\ (227) \end{gathered}$ | 100 | 500 | 1000 | 5000 |
| ACC38-AT-C |  |  |  |  |  | Nylon 6.6 | Natural | Indoors/ High Temp. | Acrylic |  | 100 | 500 | 1000 | 5000 |
| ACC38-A-C20 |  |  |  |  |  | Nylon 6.6 | Black | Indoors | Rubber |  | 100 | 500 | 1000 | 5000 |
| ACC38-AT-C0 |  |  |  |  |  | Weather Resistant Nylon 6.6 | Black | Outdoors/ High Temp. | Acrylic |  | 100 | 500 | 1000 | 5000 |
| ACC62-A-C | $\begin{gathered} .62 \\ (15.7) \end{gathered}$ | $\begin{gathered} 1.24 \\ (31.4) \end{gathered}$ | $\begin{gathered} 1.12 \\ (28.6) \end{gathered}$ | $\begin{gathered} .63 \\ (16.1) \end{gathered}$ | $\begin{gathered} .74 \\ (18.8) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | Rubber | $\begin{aligned} & .70 \\ & (318) \end{aligned}$ | 100 | 500 | 500 | 5000 |
| ACC62-AT-C |  |  |  |  |  | Nylon 6.6 | Natural | Indoors/ High Temp. | Acrylic |  | 100 | 500 | 500 | 5000 |
| ACC62-A-C20 |  |  |  |  |  | Nylon 6.6 | Black | Indoors | Rubber |  | 100 | 500 | 500 | 5000 |
| ACC62-AT-C0 |  |  |  |  |  | Weather Resistant Nylon 6.6 | Black | Outdoors/ High Temp. | Acrylic |  | 100 | 500 | 500 | 5000 |

## Push Mount Cord Clip



Mounts snap easily into pre-drilled holes. Integral mounting device eliminates the need for additional mounting hardware. The winged design holds mount in place in applications
 where vibration is present.


| Part Number | Max. <br> Bundle Dia. <br> in. (mm) | Dimensions | Material | Color | Where Used | Panel Dimensions in. (mm) |  | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Max. <br> Thickness | Hole Diameter |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| PMCC38H25-C | $\begin{gathered} .38 \\ (9.6) \end{gathered}$ | See drawing | Nylon | Natural | Indoors | $\begin{aligned} & .105 \\ & (2.7) \end{aligned}$ | $\begin{aligned} & .250 \\ & (6.4) \end{aligned}$ | Inserted into a Pre-Drilled Hole | 100 | 1000 | 1000 | 5000 |
| PMCC38H25-M0 |  |  | Weather Resistant Nylon 6.6 | Black | Outdoors |  |  |  | - | - | 1000 | 5000 |

Cable and Wire Mounting Devices

AJC Type


These low profile " J " clips retain cords, wires, or tubing and are available in four sizes. Their flexible design allows for easy cord insertion yet holds bundles tightly.


| Part Number | Max. <br> Bundle Dia. in. (mm) | Dimensions in. (mm) |  |  |  |  | Color \& Material | Where Used | Mounting Method | Max. <br> Static <br> Load lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| AJC19-A-C | $\begin{array}{r} .19 \\ (4.8) \\ \hline \end{array}$ | $\begin{gathered} \hline 89 \\ (22.6) \\ \hline \end{gathered}$ | $\begin{gathered} 1.25 \\ (31.8) \\ \hline \end{gathered}$ | $\begin{array}{r} \hline .30 \\ (7.6) \\ \hline \end{array}$ | $\begin{gathered} \hline .19 \\ (4.8) \\ \hline \end{gathered}$ | $\begin{gathered} .77 \\ (19.6) \\ \hline \end{gathered}$ | Gray, PVC | Indoors | Rubber Adhesive | $\begin{gathered} .50 \\ (227) \\ \hline \end{gathered}$ | - | - | 100 | 1000 |
| AJC25-A-C | $\begin{gathered} .25 \\ (6.4) \\ \hline \end{gathered}$ | $\begin{gathered} .92 \\ (23.4) \\ \hline \end{gathered}$ | $\begin{gathered} 1.50 \\ (38.1) \\ \hline \end{gathered}$ | $\begin{array}{r} \hline .34 \\ (8.6) \\ \hline \end{array}$ | $\begin{gathered} .25 \\ (5.8) \\ \hline \end{gathered}$ | $\begin{gathered} .77 \\ (19.6) \\ \hline \end{gathered}$ |  |  |  | $\begin{gathered} .60 \\ (272) \\ \hline \end{gathered}$ | - | - | 100 | 1000 |
| AJC31-A-C | $\begin{gathered} \hline .31 \\ (7.9) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 1.23 \\ (31.2) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 1.75 \\ (44.5) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .44 \\ (11.2) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .31 \\ (7.9) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 1.03 \\ (26.2) \\ \hline \end{gathered}$ |  |  |  | $\begin{gathered} .90 \\ (408) \\ \hline \end{gathered}$ | - | - | 100 | 1000 |
| AJC38-A-C | $\begin{gathered} .38 \\ (9.6) \end{gathered}$ | $\begin{gathered} 1.28 \\ (32.5) \\ \hline \end{gathered}$ | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | $\begin{gathered} .53 \\ (13.5) \end{gathered}$ | $\begin{gathered} .38 \\ (10.2) \end{gathered}$ | $\begin{gathered} 1.03 \\ (26.2) \end{gathered}$ |  |  |  | $\begin{gathered} 1.0 \\ (454) \end{gathered}$ | - | - | 100 | 1000 |

## A1C Type

Holds cords, cables and tubing. Single adhesive pad for confined areas.


| Part Number | Max. Bundle Dia. in. (mm) | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| A1C12-A-C8 | $\begin{gathered} .12 \\ (3.0) \\ \hline \end{gathered}$ | $\begin{gathered} .77 \\ (19.6) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline .63 \\ & (16) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline .23 \\ (5.8) \\ \hline \end{gathered}$ | PVC | Gray | Indoors | Rubber Adhesive | $\begin{aligned} & .14 \\ & (64) \end{aligned}$ | - | - | 100 | 1000 |
| A1C25-A-C8 | $\begin{gathered} \hline 25 \\ (6.4) \\ \hline \end{gathered}$ | $\begin{gathered} .91 \\ (23.1) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .63 \\ (16) \\ \hline \end{gathered}$ | $\begin{gathered} .38 \\ (9.7) \\ \hline \end{gathered}$ |  |  |  |  |  | - | - | 100 | 1000 |
| A1C38-A-C8 | $\begin{gathered} .38 \\ (9.5) \end{gathered}$ | $\begin{gathered} 1.04 \\ (26.4) \end{gathered}$ | $\begin{gathered} \hline .63 \\ (16) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .51 \\ (13) \\ \hline \end{gathered}$ |  |  |  |  |  | - | - | 100 | 1000 |
| A1C50-A-C8 | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{gathered} 1.17 \\ (29.7) \\ \hline \end{gathered}$ | $\begin{gathered} .63 \\ (16) \\ \hline \end{gathered}$ | $\begin{gathered} 64 \\ (16.3) \\ \hline \end{gathered}$ |  |  |  |  |  | - | - | 100 | 1000 |

## A2C Type

Holds cords, cables and tubing. Two adhesive pads for added strength.


| Part Number | Max. Bundle Dia. in. (mm) | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| A2C12-A-C8 | $\begin{gathered} .12 \\ (3.0) \end{gathered}$ | $\begin{aligned} & \hline 1.30 \\ & (33) \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline .63 \\ (16) \\ \hline \end{array}$ | $\begin{gathered} \hline .23 \\ (5.8) \\ \hline \end{gathered}$ | PVC | Gray | Indoors | Rubber Adhesive | $\begin{gathered} .37 \\ (169) \end{gathered}$ | - | - | 100 | 1000 |
| A2C25-A-C8 | $\begin{gathered} 25 \\ (6.4) \\ \hline \end{gathered}$ | $\begin{gathered} 1.43 \\ (36.3) \\ \hline \end{gathered}$ | $\begin{array}{r} .63 \\ (16) \\ \hline \end{array}$ | $\begin{gathered} .36 \\ (9.1) \\ \hline \end{gathered}$ |  |  |  |  |  | - | - | 100 | 1000 |
| A2C38-A-C8 | $\begin{gathered} .38 \\ (9.5) \\ \hline \end{gathered}$ | $\begin{gathered} 1.56 \\ (39.6) \\ \hline \end{gathered}$ | $\begin{array}{r} \hline .63 \\ (16) \\ \hline \end{array}$ | $\begin{gathered} .49 \\ (12.4) \end{gathered}$ |  |  |  |  |  | - | - | 100 | 1000 |
| A2C50-A-C8 | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 1.72 \\ (43.7) \\ \hline \end{gathered}$ | $\begin{array}{r} \hline .63 \\ (16) \\ \hline \end{array}$ | $\begin{gathered} .61 \\ (15.5) \\ \hline \end{gathered}$ |  |  |  |  |  | - | - | 100 | 1000 |

MACC Type


Metal adhesive backed cord clip can be opened and closed without damage to the clip, to remove or add wires quickly and easily.

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| Part Number | Max. Bundle Dia. in. (mm) | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| MACC25-A-C | $\begin{array}{r} \hline 25 \\ (6.4) \\ \hline \end{array}$ | $\begin{gathered} \hline .53 \\ (13.5) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .79 \\ (20) \\ \hline \end{gathered}$ | $\begin{gathered} .28 \\ (7.1) \\ \hline \end{gathered}$ | Zinc Plated | - |  | Rubber Adhesive | $\begin{array}{r} \hline .21 \\ (95) \\ \hline \end{array}$ | 100 | 1000 | - | - |
| MACC62-A-C | $\begin{gathered} .62 \\ (15.7) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \\ \hline \end{gathered}$ | $\begin{aligned} & 1.18 \\ & (30) \end{aligned}$ | $\begin{gathered} .28 \\ (7.1) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{gathered} .44 \\ (200) \\ \hline \end{gathered}$ | 100 | 1000 | - | - |

LWC Type


Holds wires, cable and tubing and is available in 6 sizes, with releasable latch. Adhesive backed and push mount styles available. Large mounting base for high bonding strength.


Push Mount Version

## PANDUIT ${ }^{\circ}$ <br> Cable and Wire Mounting Devices

BEC Type


Bevel Entry Clips are available in 3 sizes to hold tubing, cable or wire bundles. The beveled entry makes it easy to snap in the bundle. The clips are available in push barb or adhesive backed styles.



Push Mount Version cinus

| Part Number $\ddagger$ | Max. Bundle Dia. in. (mm) | Dimensions in. (mm) |  |  | Material | Color | Where Used | Panel Dimensions in. (mm) |  | Mounting Method in. (mm) | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  | Max. <br> Thickness | Hole <br> Diameter |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| BEC38-A-L | $\begin{gathered} .38 \\ (9.6) \end{gathered}$ | $\begin{gathered} 1.46 \\ (37.1) \end{gathered}$ | $\begin{gathered} 1.24 \\ (31.5) \end{gathered}$ | $\begin{gathered} .52 \\ (13.2) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | - | - | Rubber Adhesive | $\begin{gathered} .91 \\ (411) \end{gathered}$ | 50 | 500 | 200 | 1000 |
| BEC38-A-L20 |  |  |  |  | Nylon 6.6 | Black | Indoors | - | - | Rubber Adhesive |  | 50 | 500 | 200 | 1000 |
| BEC38-AT-LO |  |  |  |  | Weather Resist. Nylon 6.6 | Black | Outdoors | - | - | Acrylic Adhesive |  | 50 | 500 | 200 | 1000 |
| BEC62-A-L | $\begin{gathered} .62 \\ (15.7) \end{gathered}$ | $\begin{gathered} 1.46 \\ (37.1) \end{gathered}$ | $\begin{gathered} 1.24 \\ (31.5) \end{gathered}$ | $\begin{gathered} .79 \\ (20.1) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | - | - | Rubber Adhesive | $\begin{gathered} .91 \\ (411) \end{gathered}$ | 50 | 500 | 200 | 1000 |
| BEC62-A-L20 |  |  |  |  | Nylon 6.6 | Black | Indoors | - | - | Rubber Adhesive |  | 50 | 500 | 200 | 1000 |
| BEC62-AT-LO |  |  |  |  | Weather Resist. Nylon 6.6 | Black | Outdoors | - | - | Acrylic Adhesive |  | 50 | 500 | 200 | 1000 |
| BEC75-A-L | $\begin{array}{r} .75 \\ (19) \end{array}$ | $\begin{gathered} 1.46 \\ (37.1) \end{gathered}$ | $\begin{gathered} 1.49 \\ (37.8) \end{gathered}$ | $\left(\begin{array}{c} .89 \\ (22.6) \end{array}\right.$ | Nylon 6.6 | Natural | Indoors | - | - | Rubber Adhesive | $\begin{aligned} & 1.09 \\ & (493) \end{aligned}$ | 50 | 500 | 200 | 1000 |
| BEC75-A-L20 |  |  |  |  | Nylon 6.6 | Black | Indoors | - | - | Rubber Adhesive |  | 50 | 500 | 200 | 1000 |
| BEC75-AT-L0 |  |  |  |  | Weather Resist. Nylon 6.6 | Black | Outdoors | - | - | Acrylic Adhesive |  | 50 | 500 | 200 | 1000 |
| BECP38H25-L | $\begin{gathered} .38 \\ (9.6) \end{gathered}$ | $\begin{array}{\|c\|} \hline 1.46 \\ (37.1) \end{array}$ | $\begin{gathered} 73 \\ (18.5) \end{gathered}$ | $\begin{gathered} 1.0 \\ (25.4) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | $\begin{gathered} .08 \\ (1.9) \end{gathered}$ | $\begin{array}{r} 250 \\ .(6.4) \end{array}$ | Inserted into Pre-Drilled Hole | - | 50 | 500 | 200 | 1000 |
| $\begin{aligned} & \text { BECP38H25- } \\ & \text { L20 } \end{aligned}$ |  |  |  |  |  | Black |  |  |  |  | - | 50 | 500 | 200 | 1000 |
| BECP75H25-L | $\begin{array}{r} .75 \\ (9.6) \end{array}$ | $\begin{gathered} 1.47 \\ (37.3) \end{gathered}$ | $\begin{gathered} .73 \\ (18.5) \end{gathered}$ | $\begin{gathered} 1.35 \\ (34.3) \end{gathered}$ |  | Natural |  |  |  |  | - | 50 | 500 | 200 | 1000 |
| $\begin{aligned} & \text { BECP75H25- } \\ & \text { L20 } \end{aligned}$ |  |  |  |  |  | Black |  |  |  |  | - | 50 | 500 | 200 | 1000 |

ADCC Type


Holds two cables in high temperature applications both indoors and outdoors.


| Part Number $\ddagger$ | Max. Bundle Dia. <br> in. (mm) | Material | Color | Where Used | Mounting Method | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| ADCC31-AT-C10 | $\begin{gathered} 2 \text { bundles } \\ .20-.31 \\ (5.1-7.9) \\ \hline \end{gathered}$ | NORYL* | White | Indoors/ Outdoors | Acrylic Adhesive | $\begin{gathered} 25 \\ (113) \end{gathered}$ | 100 | 500 |

*NORYL is a registered trademark of General Electric Company.

## AMC Type



Holds a single cable and can be mounted on any flat smooth surface both indoors and outdoors.


| Part Number | Max. Bundle Dia. in. (mm) | Material | Color | Where Used | Mounting Method | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| AMC25-AT-C10 | $\begin{gathered} .22-.28 \\ (6-7) \\ \hline \end{gathered}$ | PVC | White | Indoors/ Outdoors | Acrylic Adhesive | $\begin{gathered} \hline .40 \\ (182) \\ \hline \end{gathered}$ | - | - | 1000 | 1000 |

VCC Type


| Part Number $\ddagger$ | Max. Bundle Dia. in. (mm) | Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| VCC25-A-C | $\begin{gathered} \hline .25 \\ (6.4) \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | Rubber Adhesive | $\begin{gathered} .25 \\ (113) \end{gathered}$ | 100 | 500 | 1000 | 5000 |
| VCC25-A-C20 |  |  |  |  | Black |  |  |  | 100 | 500 | 1000 | 5000 |
| VCC50-A-C | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} 1.56 \\ (39.7) \\ \hline \end{gathered}$ |  | Natural |  |  | $\begin{gathered} .78 \\ (354) \\ \hline \end{gathered}$ | 100 | 500 | 200 | 1000 |

## Latching Clip



Funnel entry design of this vertical cord clip allows for easy insertion of wires, cables and cords. Top loading for fast production operations.

${ }^{6} \mathrm{NH}_{\mathrm{us}}$

This versatile clip retains and supports wire for a variety of applications. Provides a quickly installed mount with a locked cover which withstands vibration yet allows easy access.


| Part Number | Max. Bundle Dia. in. (mm) | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Max. <br> Static <br> Load <br> lbs. (g) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| LC3-A-C8 | $\begin{gathered} .20 \\ (5.0) \\ \hline \end{gathered}$ | $\begin{array}{r} .75 \\ (19) \\ \hline \end{array}$ | $\begin{gathered} .78 \\ (19.8) \\ \hline \end{gathered}$ | $\begin{gathered} .47 \\ (11.9) \\ \hline \end{gathered}$ | PVC | Gray | Indoors | Rubber Adhesive | $\begin{gathered} .22 \\ (100) \end{gathered}$ | - | - | 100 | 1000 |
| LC5-A-C8 | $\begin{gathered} .36 \\ (9.1) \\ \hline \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \\ \hline \end{gathered}$ | $\begin{gathered} 1.01 \\ (25.7) \\ \hline \end{gathered}$ | $\begin{gathered} .61 \\ (15.5) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{gathered} \hline .44 \\ (200) \\ \hline \end{gathered}$ | - | - | 100 | 1000 |
| LC10-A-L8 | $\begin{gathered} .93 \\ (23.6) \\ \hline \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.51 \\ (38.4) \\ \hline \end{array}$ | $\begin{gathered} .84 \\ (21.3) \\ \hline \end{gathered}$ |  |  |  |  | $\begin{gathered} .60 \\ (272) \\ \hline \end{gathered}$ | - | - | 50 | 500 |

## Cable Holder



Holds wires, cables and tubing and has a releasable latch. Adhesive backed and screw mount styles available. Large mounting base for high bonding strength.


| Part Number | Cable Width in. (mm) | Dimensions in. (mm) |  |  |  |  | Material | Color | Where Used | Mounting Method | Max. Static Load lbs. (g) | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| CH105-A-C14 | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | $\begin{gathered} 5.04 \\ (128.0) \end{gathered}$ | $\begin{gathered} 2.48 \\ (63.0) \end{gathered}$ | $\begin{gathered} 2.06 \\ (52.3) \end{gathered}$ | $\begin{gathered} .59 \\ (15.0) \end{gathered}$ | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | Nylon 6.6 | Gray | Indoors | Rubber Adhesive | $\begin{aligned} & 1.28 \\ & (582) \\ & \hline \end{aligned}$ | 100 | 200 |
| CH105-S6-C14 |  |  |  |  |  |  |  |  |  | (2) \#6 (M3) Screws | - |  |  |

## PANDUIT ${ }^{\oplus}$ Cable and Wire Mounting Devices

Adhesive Backed
Flat Cable Mounts
LPFCM Type Low Profile

This low profile mount is available in 3 sizes and provides cost effective cable containment and identification for stack heights up to .105" $(2.67 \mathrm{~mm})$. It features a matte, textured surface for either hand written identification or application of computer labels.


| Part Number $\ddagger$ | Cable Width in. (mm) | Dimensions in. (mm) |  |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| LPFCM14-A-C14 | $\begin{aligned} & \hline 1.44 \\ & (37) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 2.56 \\ & (65) \\ & \hline \end{aligned}$ | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{aligned} & .134 \\ & (3.4) \end{aligned}$ | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | Nylon 6.6 | Gray | Indoors | Rubber Adhesive/ <br> Static Load <br> $.25 \mathrm{lbs}(113 \mathrm{~g})$ <br> or (2) \#6 (M3) Screws | 100 | 500 | 500 | 5000 |
| LPFCM22-A-C14 | $\begin{array}{r} 2.19 \\ (56) \\ \hline \end{array}$ | $\begin{aligned} & 3.31 \\ & (84) \\ & \hline \end{aligned}$ | $\begin{gathered} 2.75 \\ (69.9) \\ \hline \end{gathered}$ |  | $\begin{gathered} 2.75 \\ (69.9) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 500 | 500 | 5000 |
| LPFCM34-A-C14 | $\begin{aligned} & 3.44 \\ & (87) \\ & \hline \end{aligned}$ | $\begin{array}{\|c} \hline 4.56 \\ (115.8) \\ \hline \end{array}$ | $\begin{gathered} 4.00 \\ (101.6) \\ \hline \end{gathered}$ |  | $\begin{gathered} 4.00 \\ (101.6) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 500 | 500 | 5000 |

## Adhesive Backed Flat Cable Mounts - FCM Type



The FCM will hold flat cable securely without damaging the cable's jacket or conductors. The four available sizes will accommodate cable up to 3.25 " wide and allow cable stacking up to .17 " ( 4.3 mm ). All sizes are available with or without adhesive backing.


FCM1 \& FCM1.2

| Part Number $\ddagger$ | Cable Width in. (mm) | Dimensions in. (mm) |  |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | $\begin{aligned} & \text { Bulk } \\ & \text { Ctn. } \\ & \text { Qty } \\ & \hline \end{aligned}$ |


| FCM1-A-C14 | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} 2.90 \\ (73.7) \end{gathered}$ | $\begin{gathered} 1.21 \\ (30.7) \end{gathered}$ | $\begin{aligned} & 1.05 \\ & (26.7) \end{aligned}$ | $\begin{gathered} .61 \\ (15.5) \end{gathered}$ | Nylon 6.6 | Gray | Indoors | Rubber Adhesive/Static Load .5 lbs ( 227 g ) | 100 | 500 | 200 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FCM1.2-A-C14 | $\begin{gathered} 1.20 \\ (30.5) \end{gathered}$ | $\begin{gathered} 3.16 \\ (80.3) \end{gathered}$ | $\begin{gathered} 1.37 \\ (34.8) \end{gathered}$ | $\begin{gathered} 1.20 \\ (30.5) \end{gathered}$ | $\begin{gathered} \hline 69 \\ (17.5) \end{gathered}$ |  |  |  | Rubber Adhesive/Static Load .62 lbs ( 281 g ) | 100 | 500 | 200 | 1000 |
| FCM2-A-C14 | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | $\begin{array}{\|c\|} \hline 5.06 \\ (128.5) \end{array}$ | $\begin{gathered} 2.22 \\ (56.4) \end{gathered}$ | $\begin{gathered} 2.05 \\ (52.1) \end{gathered}$ | $\begin{gathered} .37 \\ (9.4) \end{gathered}$ |  |  |  | Rubber Adhesive/Static Load 1.0 lbs. ( 454 g ) | 100 | 500 | 200 | 1000 |
| FCM3.25-A-L14 | $\begin{gathered} 3.25 \\ (82.5) \end{gathered}$ | $\begin{array}{\|c\|} \hline 7.30 \\ (185.4) \end{array}$ | $\begin{gathered} \hline 3.38 \\ (85.9) \end{gathered}$ | $\begin{gathered} 3.23 \\ (82.0) \end{gathered}$ | $\begin{gathered} \hline .94 \\ (23.9) \end{gathered}$ |  |  |  | Rubber Adhesive/Static Load $1.5 \mathrm{lbs} .(681 \mathrm{~g})$ | 50 | 500 | 200 | 1000 |

SCREW MOUNTED

| FCM1-S6-C14 | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} 2.90 \\ (73.7) \end{gathered}$ | $\begin{gathered} 1.21 \\ (30.7) \end{gathered}$ | $\begin{gathered} 1.05 \\ (26.7) \end{gathered}$ | $\begin{gathered} .61 \\ (15.5) \end{gathered}$ | Nylon 6.6 | Gray | Indoors | \#6 (M3) <br> Screw | 100 | 500 | 200 | 1000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FCM1.2-S6-C14 | $\begin{gathered} 1.20 \\ (30.5) \end{gathered}$ | $\begin{gathered} \hline 3.16 \\ (80.3) \end{gathered}$ | $\begin{gathered} 1.37 \\ (34.8) \end{gathered}$ | $\begin{gathered} 1.20 \\ (30.5) \end{gathered}$ | $\begin{gathered} .69 \\ (17.5) \end{gathered}$ |  |  |  |  | 100 | 500 | 200 | 1000 |
| FCM2-S6-C14 | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | $\begin{gathered} 5.06 \\ (128.5) \end{gathered}$ | $\begin{gathered} 2.22 \\ (56.4) \end{gathered}$ | $\begin{gathered} 2.05 \\ (52.1) \end{gathered}$ | $\begin{gathered} \hline .37 \\ (9.4) \end{gathered}$ |  |  |  | (2) \#6 <br> (M3) Screws | 100 | 500 | 200 | 1000 |
| FCM3.25-S6-L14 | $\begin{gathered} \hline 3.25 \\ (82.5) \end{gathered}$ | $\begin{array}{\|c\|} \hline 7.30 \\ (185.4) \end{array}$ | $\begin{gathered} 3.38 \\ (85.9) \end{gathered}$ | $\begin{gathered} 3.23 \\ (82.0) \end{gathered}$ | $\begin{gathered} .94 \\ (23.9) \end{gathered}$ |  |  |  |  | 50 | 500 | 200 | 1000 |

## Adhesive Backed Flat Cable Mounts - FCH Type



The FCH part is designed for flat cable up to a stack height of .25 " $(6.3 \mathrm{~mm})$ or discrete wire. It is available with adhesive backing or can be screw applied.


| Part Number $\ddagger$ | Cable Width in. (mm) | Dimensions in. (mm) |  |  |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E |  |  |  |  | Std. Pkg. Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| FCH2-A-C14 | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | $\begin{array}{\|c\|} \hline 5.00 \\ (128.1) \end{array}$ | $\begin{gathered} 2.50 \\ (63.0) \end{gathered}$ | $\begin{gathered} 2.10 \\ (52.2) \end{gathered}$ | $\begin{gathered} .59 \\ (15.0) \end{gathered}$ | $\begin{gathered} 1.50 \\ (38.1) \end{gathered}$ | Nylon 6.6 | Gray | Indoors | Rubber Adhesive/ Static Load 1.0 lbs . (454g) | 100 | 500 | 200 | 1000 |
| FCH2-S6-C14 |  |  |  |  |  |  |  |  |  | (2) \#6 (M3) Screws | 100 | 500 | - | - |

Adhesive Backed Flat Cable Mounts - FCC Type


Used with any width flat cable for a maximum stack height of .17" (4.3mm).


| Part Number $\ddagger$ | Cable Width in. (mm) | Dimensions in. (mm) |  |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | $\begin{aligned} & \text { Bulk } \\ & \text { Ctn. } \end{aligned}$ Qty. |
| FCC5-A-C8 | Any width | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} .56 \\ (14.1) \end{gathered}$ | $\begin{gathered} .29 \\ (7.4) \end{gathered}$ |  |  | doors | Rubber Adhesive/Static Load .25 lbs. $(113 \mathrm{~g})$ | 100 | 1000 | 500 | 5000 |
| FCC-A-C8 | flat cable | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} 1.09 \\ (27.7) \end{gathered}$ | $\begin{gathered} \hline .38 \\ (9.7) \end{gathered}$ |  |  | doors | Rubber Adhesive/Static Load .50 lbs. $(227 \mathrm{~g})$ | 100 | 1000 | 500 | 5000 |

## Pan-Clamp ${ }^{\text {TM }}$ <br> Heavy Duty Fixed Diameter Clamp with Integrated Fastener



1. Install into $1 / 8$ " ( 3.2 mm ) thick panel or bracket with a hole diameter of $0.281^{\prime \prime}(7.1 \mathrm{~mm})$ typical clearance hole for $1 / 4^{\prime \prime}(6 \mathrm{~mm})$ bolts.

PANDUIT ${ }^{\oplus}$ PAN-CLAMP ${ }^{\text {Tm }}$ Heavy Duty Fixed Diameter Clamps offer easy installation and economical assembly for a wide variety of applications.

- Integrated fastener replaces up to a five piece assembly
- Anchors with 70 lbs . ( 31.8 kg ) of pull out force and supports 125 lbs . $(56.7 \mathrm{~kg}$ ) of shear


3. Rivet installs easily by hand. No special tools required.


4. Molded barbs keep the clamp secured in the hole during assembly.


| Part Number $\ddagger$ | Dimensions in. (mm) |  |  | Material | Color | Panel Hole <br> Size <br> in. (mm) | Panel <br> Thickness in. (mm) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| PC038-H25D-C0 | $\begin{gathered} \hline 3 / 8 \\ (9.5) \end{gathered}$ | $\begin{gathered} .62 \\ (15.7) \end{gathered}$ | $\begin{gathered} .65 \\ (16.5) \end{gathered}$ | Impact <br> Modified <br> Weather <br> Resistant <br> Nylon 6.6 | Black | $\begin{aligned} & 275 \\ & .(7.0) \end{aligned}$ | $\begin{aligned} & .126 \\ & (3.2) \end{aligned}$ | 100 | 500 | 500 | 1000 |
| PC050-H25D-C0 | $\begin{gathered} 1 / 2 \\ (12.7) \end{gathered}$ |  | $\begin{gathered} .71 \\ (18.0) \end{gathered}$ |  |  |  |  | 100 | 500 | 500 | 1000 |
| PC062-H25D-C0 | $\begin{gathered} \hline 5 / 8 \\ (15.8) \end{gathered}$ |  | $\begin{gathered} \hline .77 \\ (19.6) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 1000 | 500 | 1000 |
| PC075-H25D-C0 | $\begin{gathered} \hline 3 / 4 \\ (19.1) \end{gathered}$ |  | $\begin{gathered} \hline .84 \\ (21.3) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 1000 | 500 | 1000 |
| PC087-H25D-C0 | $\begin{gathered} 7 / 8 \\ (22.1) \end{gathered}$ |  | $\begin{gathered} .90 \\ (22.9) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 1000 | 500 | 1000 |
| PC100-H25D-C0 | $\begin{gathered} 1 \\ (25.4) \end{gathered}$ |  | $\begin{gathered} .96 \\ (24.3) \end{gathered}$ |  |  |  |  | 100 | 1000 | 200 | 1000 |
| PC112-H25D-C0 | $\begin{aligned} & 11 / 8 \\ & (28.5) \end{aligned}$ |  | $\begin{gathered} 1.02 \\ (25.9) \end{gathered}$ |  |  |  |  | 100 | 1000 | 200 | 1000 |
| PC125-H25D-C0 | $\begin{aligned} & \hline 11 / 4 \\ & (31.8) \end{aligned}$ |  | $\begin{gathered} 1.08 \\ (27.4) \end{gathered}$ |  |  |  |  | 100 | 1000 | 200 | 1000 |

Fixed Diameter Cable Clamps


Durable nylon cable clamps are available in two widths: $3 / 8^{\prime \prime}$ wide for standard use and $1 / 2^{\prime \prime}$ wide for heavy duty use.

NOTE: All parts listed also available in black weather resistant material (-0). Bulk package only.

$6 n^{\circ}$ US


## Panduli ${ }^{\circ}$ <br> Cable and Wire Mounting Devices

Tension
Wire Retainers

Wires slide into the clip and are held in place by tension.


| Part Number $\ddagger$ | Bundle Diameter in. (mm) | Dimensions in. (mm) | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. Qty. | Bulk <br> Ctn. <br> Qty. |
| TWR-C | $\begin{array}{r} .38 \\ (9.5) \end{array}$ | See Drawing | Nylon 6.6 | Natural | Indoors | \#6 (M3) <br> Screw | 100 | 1000 | 1000 | 5000 |
| TWR-C0 |  |  | Weather Resistant Nylon 6.6 | Black | Indoors/ Outdoors |  | 100 | 1000 | - | - |

## Tack Clips



Used for securing wire, cable and tubing to nailable surfaces. The clips are furnished with a single integral zinc plated, hardened steel nail to help speed installation.


| Part Number | Type | Bundle Capacity in. (mm) | Dimensions in. (mm) |  |  | Coaxial Cross RG\# | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A | B | C |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| TC3-5-C100 | S | $\begin{gathered} .13 \text { dia. } \\ (3.5) \end{gathered}$ | $\begin{gathered} .20 \\ (5.1) \end{gathered}$ | $\begin{gathered} .29 \\ (7.4) \end{gathered}$ | $\begin{gathered} .23 \\ (5.8) \end{gathered}$ | 187 | Weather Resistant Polypropylene | Black | Indoors/ Outdoors | Nail is hammered into a nailable surface such as wood or mortar joints. Do not use on concrete or brick. | - | - | 100 | 1000 |
| TC5-7-C100 | S | .21 dia. <br> (5) | $\begin{gathered} .31 \\ (7.9) \end{gathered}$ | $\begin{gathered} \hline .39 \\ (9.9) \\ \hline \end{gathered}$ | $\begin{gathered} .23 \\ (5.8) \\ \hline \end{gathered}$ | 58 |  |  |  |  | - | - | 100 | 1000 |
| TC7-10-C100 | S | $\begin{gathered} .26 \mathrm{dia} . \\ (6.5) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .38 \\ (9.7) \\ \hline \end{gathered}$ | $\begin{gathered} .49 \\ (12.5) \end{gathered}$ | $\begin{array}{r} \hline .35 \\ (8.9) \\ \hline \end{array}$ | 59 |  |  |  |  | - | - | 100 | 1000 |
| TC10-14-C100 | S | $\begin{gathered} .36 \text { dia. } \\ (9.2) \end{gathered}$ | $\begin{gathered} .51 \\ (13) \end{gathered}$ | $\begin{gathered} .59 \\ (14.9) \end{gathered}$ | $\begin{gathered} .45 \\ (11.4) \end{gathered}$ | 6A |  |  |  |  | - | - | 100 | 1000 |
| TC14-20-C100 | S | .49 dia. <br> (12) | $\begin{aligned} & \hline .67 \\ & (17) \end{aligned}$ | $\begin{gathered} .79 \\ (20.6) \\ \hline \end{gathered}$ | $\begin{gathered} .54 \\ (13.7) \\ \hline \end{gathered}$ | 8A, 9B, 11 |  |  |  |  | - | - | 100 | 1000 |
| TC5x8-C100 | D | $\begin{gathered} .20 \times .30 \\ (5 \times 8) \end{gathered}$ | $\begin{gathered} .30 \\ (8.8) \end{gathered}$ | $\begin{gathered} .54 \\ (13.7) \end{gathered}$ | $\begin{gathered} .27 \\ (6.8) \end{gathered}$ | - |  |  |  |  | - | - | 100 | 1000 |
| TC6x10-C100 | D | $\begin{aligned} & .23 \times .37 \\ & (6 \times 9.5) \end{aligned}$ | $\begin{gathered} \hline .34 \\ (8.6) \end{gathered}$ | $\begin{gathered} .62 \\ (15.7) \end{gathered}$ | $\begin{gathered} .34 \\ (8.6) \end{gathered}$ | - |  |  |  |  | - | - | 100 | 1000 |
| TC7x14-C100 | D | $\begin{aligned} & .26 \times .46 \\ & (7 \times 12) \\ & \hline \end{aligned}$ | $\begin{gathered} .36 \\ (9.1) \end{gathered}$ | $\begin{gathered} .70 \\ (17.8) \end{gathered}$ | $\begin{gathered} .43 \\ (10.9) \end{gathered}$ | - |  |  |  |  | - | - | 100 | 1000 |
| TC9x18-C100 | D | $\begin{aligned} & .38 \times .65 \\ & (10 \times 17) \end{aligned}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} .89 \\ (22.6) \end{gathered}$ | $\begin{gathered} .52 \\ (13.2) \end{gathered}$ | - |  |  |  |  | - | - | 100 | 1000 |

## PANDUIT ${ }^{\text {® }}$ Cable and Wire Mounting Devices

Siding Clips


Horizontal Siding Clip


Vertical Siding Clip


VSC Vertical Clip


HSC Horizontal Clip

| Part Number $\ddagger$ | Max. <br> Cable Dia. <br> in. (mm) | Dimensions in. (mm) |  |  |  | Material | Color | Mounting Method | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| HSC.25-L | $\begin{array}{r} .25 \\ (6.4) \end{array}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} .71 \\ (18.0) \end{gathered}$ | $\begin{gathered} .34 \\ (8.6) \end{gathered}$ | $\begin{gathered} .37 \\ (9.4) \end{gathered}$ | Nylon 6.6 | White | Attach to Siding | 50 | 500 |
| HSC.25-L100 |  |  |  |  |  | Weather Resistant Polypropylene | Black |  | 50 | 500 |
| VSC.25-L |  | $\begin{gathered} 1.26 \\ (31.8) \end{gathered}$ | $\begin{gathered} .98 \\ (25.0) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} .70 \\ (17.8) \end{gathered}$ | Nylon 6.6 | White |  | 50 | 500 |
| VSC.25-L100 |  |  |  |  |  | Weather Resistant Polypropylene | Black |  | 50 | 500 |

Wire Standoffs


For retaining wires, cable, components or tubing away from panel or conductive chassis. Finger grip flanges can be easily locked or unlocked for revisions. Hand installed in pre-drilled hole.


| Part Number $\ddagger$ | Dimensions in. (mm) |  | Panel Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | Panel Thickness | Hole Diameter |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. Ctn. Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| WS25-25-C | $\begin{gathered} \hline .25 \\ (6.4) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .25 \\ (6.4) \\ \hline \end{gathered}$ | $\begin{gathered} .03 \text { to } .08 \\ (0.7 \text { to } 2.0) \end{gathered}$ | $\begin{gathered} .19 \text { to } .20 \\ (4.7 \text { to } 4.9) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | Inserted into Pre-Drilled Hole | 100 | 1000 | - | - |
| WS25-50-C | $\begin{gathered} .25 \\ (6.4) \\ \hline \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |
| WS25-75-C | $\begin{array}{r} .25 \\ (6.4) \\ \hline \end{array}$ | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |
| WS35-25-C | $\begin{array}{r} .35 \\ \text { (8.9) } \\ \hline \end{array}$ | $\begin{gathered} .25 \\ (6.4) \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |
| WS35-50-C | $\begin{array}{r} .35 \\ (8.9) \\ \hline \end{array}$ | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |
| WS35-75-C | $\begin{array}{r} .35 \\ (8.9) \\ \hline \end{array}$ | $\begin{gathered} .75 \\ (19.1) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |
| WS50-25-C | $\begin{gathered} .47 \\ (11.9) \end{gathered}$ | $\begin{gathered} .25 \\ (6.4) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |
| WS50-50-C | $\begin{gathered} .47 \\ (11.9) \\ \hline \end{gathered}$ | $\begin{gathered} .49 \\ (12.7) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |
| WS50-75-C | $\begin{gathered} .47 \\ (11.9) \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |
| WS75-25-C | $\begin{gathered} .78 \\ (19.8) \\ \hline \end{gathered}$ | $\begin{gathered} .25 \\ (6.4) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| WS75-50-C | $\begin{gathered} .78 \\ (19.8) \\ \hline \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| WS75-75-C | $\begin{gathered} .78 \\ (19.8) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.1) \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | 1000 | 5000 |

## Snap-In Clips

|  | Dimensions |
| :--- | :--- |

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The clips hold wire bundles securely. Clips are placed on the bundle then attached to the panel. Designed for pre-drilled holes.


| Part Number $\ddagger$ | Max. <br> Bundle Dia. <br> in. (mm) | Dimensions in. (mm) |  |  | Material | Color | Where Used | Panel Dimensions in. (mm) |  | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  | Maximum Thickness | Hole Diameter |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| SICH25-C | $\begin{array}{r} .25 \\ (6.4) \\ \hline \end{array}$ | $\begin{gathered} .82 \\ (20.9) \\ \hline \end{gathered}$ | $\begin{gathered} .34 \\ (8.6) \\ \hline \end{gathered}$ | $\begin{gathered} .40 \\ (10.2) \\ \hline \end{gathered}$ | Nylon 6.6 | Natural | Indoors | $\begin{aligned} & .10 \\ & (2.5) \end{aligned}$ | $\begin{gathered} .25 \\ (6.4) \end{gathered}$ | Inserted into Pre-Drilled Hole | 100 | 1000 | 1000 | 5000 |
| SICH38-C | $\begin{gathered} \hline .38 \\ \text { (9.6) } \\ \hline \end{gathered}$ | $\begin{gathered} .98 \\ (24.6) \\ \hline \end{gathered}$ | $\begin{gathered} .50 \\ (12.8) \\ \hline \end{gathered}$ | $\begin{gathered} .54 \\ (13.7) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| SICH50-C | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.11 \\ (26.2) \\ \hline \end{array}$ | $\begin{gathered} 62 \\ (15.7) \\ \hline \end{gathered}$ | $\begin{gathered} .67 \\ (17.0) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| SICH75-C | $\begin{array}{r} \hline .75 \\ (19) \\ \hline \end{array}$ | $\begin{array}{r} 1.40 \\ (35.6) \\ \hline \end{array}$ | $\begin{gathered} 1.0 \\ (25.4) \\ \hline \end{gathered}$ | $\begin{gathered} .96 \\ (24.4) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| SICH100-C | $\begin{array}{r} 1.00 \\ (25.4) \\ \hline \end{array}$ | $\begin{array}{r} 1.65 \\ (41.9) \end{array}$ | $\begin{gathered} 1.25 \\ (31.8) \end{gathered}$ | $\begin{gathered} 1.21 \\ (30.7) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |
| SICH150-C | $\begin{array}{r} 1.5 \\ (38) \\ \hline \end{array}$ | $\begin{array}{r} 2.15 \\ (54.6) \\ \hline \end{array}$ | $\begin{array}{r} 1.75 \\ (44.5) \\ \hline \end{array}$ | $\begin{gathered} 1.71 \\ (43.4) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 1000 | - | - |

Wire Saddles


Funnel entry design for fast insertion of wires and cables. Used in pre-drilled holes.


VWS Vertical


HWS Horizontal

| Part Number $\ddagger$ | Max. Bundle Capacity in. (mm) | Dimensions in. (mm) |  | Material | Color | Where Used | Panel Dimensions in. (mm) |  | Mounting Method | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B |  |  |  | Panel Thickness | Hole Diameter |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| VWS4218-C | $\begin{aligned} & .18 \times .42 \\ & (5 \times 11) \\ & \hline \end{aligned}$ | $\begin{gathered} .58 \\ (14.7) \end{gathered}$ | $\begin{gathered} .60 \\ (15.2) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | $\begin{gathered} .03-.08 \\ (.79-2.0) \end{gathered}$ | $\begin{aligned} & .19 \\ & (4.7) \end{aligned}$ | ```c\begin{array}{c}{\mathrm{ Inserted }}\\{\mathrm{ into }}\\{\mathrm{ Pre-Drilled}}\\{\mathrm{ Hole }}\end{array}}``` | 100 | 500 | 1000 | 5000 |
| VWS4238-C | $\begin{aligned} & .40 \times .42 \\ & (10 \times 11) \\ & \hline \end{aligned}$ | $\begin{gathered} .78 \\ (19.8) \\ \hline \end{gathered}$ | $\begin{gathered} .60 \\ (15.2) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 500 | 1000 | 5000 |
| VWS4274-C | $\begin{aligned} & .74 \times .42 \\ & (19 \times 11) \end{aligned}$ | $\begin{gathered} 1.14 \\ (29.0) \end{gathered}$ | $\begin{gathered} .60 \\ (15.2) \end{gathered}$ |  |  |  |  |  |  | 100 | 500 | 1000 | 5000 |
| VWS42105-C | $\begin{aligned} & 1.05 \times .42 \\ & (27 \times 11) \end{aligned}$ | $\begin{array}{r} 1.45 \\ (36.8) \\ \hline \end{array}$ | $\begin{gathered} .60 \\ (15.2) \\ \hline \end{gathered}$ |  |  |  |  |  |  | 100 | 500 | 1000 | 5000 |
| HWS2819-C | $\begin{gathered} .19 \times .28 \\ (5 \times 7) \end{gathered}$ | $\begin{gathered} 42 \\ (10.7) \end{gathered}$ | $\begin{gathered} .44 \\ (11.2) \end{gathered}$ |  |  |  |  |  |  | 100 | 500 | 1000 | 5000 |

Harness Clips


Integral "spring" holds wire bundles tightly. Used in pre-drilled holes. Vertical, horizontal, and edge mount versions available.


Vertical HCMP06B12


Horizontal HCMP06C12

(11)


Edge Mount HCME06A12

| Part Number $\ddagger$ | Max. Bundle Dia. Range in. (mm) | Dimensions in. (mm) |  |  | Material | Color | Where Used | Panel Dimensions in. (mm) |  | Mounting Method in. (mm) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C |  |  |  | Maximum Thickness | Hole Diameter |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| HCMP 06B12-C20 | $\begin{gathered} .24-.47 \\ (5.9-2.5) \end{gathered}$ | $\begin{gathered} 1.25 \\ (31.8) \\ \hline \end{gathered}$ | $\begin{gathered} .74 \\ (18.8) \\ \hline \end{gathered}$ | $\begin{array}{r} .39 \\ (10) \end{array}$ | $\begin{gathered} \text { Nylon } \\ 6.6 \end{gathered}$ | Black | Indoors | $\begin{gathered} .11 \\ (2.7) \end{gathered}$ | $\begin{gathered} .25 \\ (6.4) \end{gathered}$ | Insertedinto Pre-Drilled Hole | 100 | 500 | 1000 | 5000 |
| HCMP06C12-C20 |  | $\begin{gathered} 1.10 \\ (27.9) \\ \hline \end{gathered}$ | $\begin{gathered} .80 \\ (20.2) \\ \hline \end{gathered}$ |  |  |  |  |  |  |  | 100 | 500 | 1000 | 5000 |
| HCME06A12-C130 |  | $\begin{gathered} .59 \\ (15.0) \end{gathered}$ | $\begin{gathered} .74 \\ (18.7) \end{gathered}$ | $\begin{gathered} .39 \\ (9.9) \\ \hline \end{gathered}$ | Acetal |  |  | - | - | See Drawing | 100 | 500 | 5000 | 10000 |

Wire Bundle Strap


Wire Bundle Strap provides a quick, durable and inexpensive way to contain wire, cable and tubing. It can be installed on wood, plywood, masonry and other surfaces using standard fasteners.


| Part Number | Bundle Retaining Area in $^{2}$ | Material | Color | Dimensions in. (mm) |  |  |  | Mounting Method | Std. Pkg. Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | A | B | C | D |  |  |  |
| WBS6-Q | 6 | ABS | Natural | $\begin{gathered} 1.00 \\ (25.4) \\ \hline \end{gathered}$ | $\begin{gathered} 3.92 \\ (99.6) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 2.54 \\ (64.5) \\ \hline \end{gathered}$ | $\begin{gathered} .25 \\ (6.35) \\ \hline \end{gathered}$ | 1/4 (M6) Screw | 25 | 125 |

Circuit Board Posts
For board-to-board or board-to-chassis mounting. Posts snap into pre-drilled holes. Bell flange on bottom end provides greater stability.


| Part Number $\ddagger$ | Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method in. (mm) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Standoff Height | A |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
| CBP12-C | $\begin{aligned} & .125 \\ & (3.2) \end{aligned}$ | $\begin{gathered} .405 \\ (10.3) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | For Circuit Boards or Chassis: .062 (1.5) thick with . 158 (4.0) diameter mounting holes | 100 | 1000 | 1000 | 5000 |
| CBP25-C | $\begin{aligned} & \hline .250 \\ & (6.4) \end{aligned}$ | $\begin{gathered} .530 \\ (13.5) \end{gathered}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| CBP31-C | $\begin{aligned} & .312 \\ & (7.9) \end{aligned}$ | $\begin{gathered} .592 \\ (15.0) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| CBP37-C | $\begin{array}{r} .375 \\ (9.5) \\ \hline \end{array}$ | $\begin{gathered} \hline .655 \\ (16.6) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| CBP50-C | $\begin{gathered} .500 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .780 \\ (19.8) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| CBP62-C | $\begin{array}{r} .625 \\ (15.9) \\ \hline \end{array}$ | $\begin{gathered} .905 \\ (23.0) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| CBP75-C | $\begin{gathered} .750 \\ (19.1) \end{gathered}$ | $\begin{aligned} & 1.030 \\ & (26.2) \end{aligned}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| CBP87-C | $\begin{gathered} .875 \\ (22.2) \end{gathered}$ | $\begin{aligned} & \hline 1.155 \\ & (29.3) \\ & \hline \end{aligned}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| CBP100-C | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{aligned} & 1.280 \\ & (32.5) \end{aligned}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |

Circuit Board Locking Supports


For board-to-chassis support. Snap-in design for fast assembly. Wing design on chassis mounting provides constant tension and stability.


| Part Number $\ddagger$ | Dimensions in. (mm) |  | Material | Color | Where Used | Mounting Method in. (mm) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Standoff Height | A |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk Ctn. Qty. |
| CBLS18-C | $\begin{array}{r} .187 \\ (4.7) \\ \hline \end{array}$ | $\begin{gathered} .92 \\ (23.4) \\ \hline \end{gathered}$ | Nylon 6.6 | Natural | Indoors | For Circuit Boards: .062 (1.5) thick with .158 (4.0) diameter mounting holes | 100 | 500 | 1000 | 5000 |
| CBLS25-C | $\begin{aligned} & \hline .250 \\ & (6.4) \\ & \hline \end{aligned}$ | $\begin{gathered} .98 \\ (24.9) \end{gathered}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| CBLS37-C | $\begin{array}{r} .375 \\ \text { (9.5) } \\ \hline \end{array}$ | $\begin{gathered} 1.11 \\ (28.2) \\ \hline \end{gathered}$ |  |  |  |  | 100 | 1000 | 1000 | 5000 |
| CBLS50-C | $\begin{gathered} .500 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{gathered} 1.23 \\ (31.2) \\ \hline \end{gathered}$ |  |  |  | For Chassis: $\text { . } 03 \text { (.79) to . } 08 \text { (2.0) }$ | 100 | 1000 | 1000 | 5000 |
| CBLS62-C | $\begin{array}{r} .625 \\ (15.9) \\ \hline \end{array}$ | $\begin{array}{r} 1.35 \\ (34.3) \\ \hline \end{array}$ |  |  |  | $\begin{aligned} & .185(4.7) \text { to } \\ & .193 \text { (4.9) } \end{aligned}$ | 100 | 1000 | 1000 | 5000 |
| CBLS75-C | $\begin{gathered} .750 \\ (19.1) \\ \hline \end{gathered}$ | $\begin{gathered} 1.48 \\ (37.5) \end{gathered}$ |  |  |  | diameter mounting holes | 100 | 1000 | 1000 | 5000 |

## Harness Board Accessories

PANDUIT ${ }^{\oplus}$ harness board accessories provide fast routing and forming of wires in harness fabrication. They hold the wires off the harness board at a uniform height for easy application of cable ties. The accessories are designed for use with various PANDUIT ${ }^{\circledR}$ cable tie installation tools. The Low accessories are used with hand-operated tools. The High accessories are used with the automatic tools. To maintain the harness at a uniform height of approx. 1.33" ( 33.8 mm ) (at the center of the harness) above the board, use RER Elastic Retainers, BR.75-E6 (or BR.5-E6), CPH.75-S8, TJF and SHH1-S8 or SHH3-S8 harness board accessories. This height is suitable for use with the PAT1M Fully Automatic
 Cable Tie Installation system (page 60).

Wire Retainers RER Type Replaceable Elastic Retainers


As wires are individually inserted, the bundle is formed. When harness is complete, it can be easily snapped out. Three sizes available for $1 / 2^{\prime \prime}(12.7 \mathrm{~mm}), 3 / 4^{\prime \prime}(19.0 \mathrm{~mm})$ and $21 / 4^{\prime \prime}(31.8 \mathrm{~mm})$ bundles.


Replacement Elastic
For economy, the elastic band can be replaced in the RER Elastic Retainers without removing the RER base.

| Part | Pkg. <br> Qumber |
| :--- | :---: |
| RER.5E-X | 10 |
| RER.75E-X | 10 |
| RER1.25E-X | 10 |


| Part Number | Max. <br> Dia. <br> in. (mm) | Dimensions in. (mm) |  |  |  |  | Color$\&$Material | Mounting Method | Std. <br> Pkg. <br> Qty.* | Std. Ctn. Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E |  |  |  |  |
| RER.5-S6-X | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{gathered} 1.89 \\ (48.0) \\ \hline \end{gathered}$ | $\begin{gathered} .84 \\ (21.3) \\ \hline \end{gathered}$ | $\begin{gathered} .18 \\ (4.7) \end{gathered}$ | $\begin{gathered} \hline .14 \\ (3.6) \\ \hline \end{gathered}$ | $\begin{gathered} 1.18 \\ (30.0) \end{gathered}$ | Black Nylon 6.6 and White Acetal | \#6 (M3) Screw | 10 | 50 |
| RER.75-S6-X | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} 2.21 \\ (56.1) \end{gathered}$ | $\begin{gathered} \hline 1.12 \\ (28.4) \\ \hline \end{gathered}$ |  | $\begin{array}{r} .14 \\ (3.6) \\ \hline \end{array}$ |  |  |  | 10 | 50 |
| RER1.25-S6-X | $\begin{array}{r} 1.25 \\ (31.8) \\ \hline \end{array}$ | $\begin{aligned} & 2.86 \\ & (72.6) \end{aligned}$ | $\begin{gathered} 1.64 \\ (41.7) \end{gathered}$ |  | $\begin{array}{r} .14 \\ (3.6) \\ \hline \end{array}$ |  |  |  | 10 | 50 |

ER Type
Elastic Retainers


ER Type retainers form wire bundles as wires are inserted. Completed bundles then snap out. Two sizes available for 1/2" (12.7) and 1 1/4" (31.7) bundles.


| Part Number | Max. Dia. in. (mm) | Dimensions in. (mm) |  |  |  |  | Color \& Material | Mounting Method | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E |  |  |  |  |
| ER.5-E4-X | $\begin{gathered} .50 \\ (12.7) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.00 \\ (25.4) \\ \hline \end{array}$ | $\begin{gathered} 1.00 \\ (25.4) \\ \hline \end{gathered}$ | $\begin{gathered} .13 \\ (3.2) \end{gathered}$ | $\begin{gathered} .12 \\ (3.0) \end{gathered}$ | $\begin{gathered} 1.96 \\ (49.8) \\ \hline \end{gathered}$ | Black Nylon 6.6 and ABS | \#4 (M2.5) Screws | 10 | 100 |
| ER1.25-E4-X | $\begin{array}{r} 1.25 \\ (31.8) \\ \hline \end{array}$ | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{gathered} 2.40 \\ (61.0) \\ \hline \end{gathered}$ |  |  | $\begin{gathered} 2.90 \\ (73.7) \\ \hline \end{gathered}$ |  |  | 10 | 100 |

## Bundle Retainers



Spring fingers with large lead in facilitate fast routing of wires and easy removal of completed harness. Overlapping feet on the BR. 5 and BR. 75 allow the retainers to be butted together for wire breakouts. Three sizes available for $1 / 2^{\prime \prime}(12.7 \mathrm{~mm})$, 3/4" (19.0mm) and 2.00" ( 50.8 mm ) bundles.

BR. 5 and BR. 75


BR2-1.3


| Part Number | Max. Dia. in. (mm) | Dimensions in. (mm) |  |  |  | $\begin{gathered} \text { Color } \\ \& \\ \text { Material } \end{gathered}$ | Mounting Method | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Std. |  | Std. |
|  |  | A | B | C | D |  |  | $\begin{aligned} & \text { Pkg. } \\ & \text { Qty } \end{aligned}$ | Qty. |
| BR.5-E6-C | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} 1.07 \\ (27.2) \end{gathered}$ | $\begin{gathered} .44 \\ (11.2) \end{gathered}$ | $\begin{gathered} .78 \\ (19.8) \end{gathered}$ | $\begin{gathered} .55 \\ (14.0) \end{gathered}$ |  | Black Acetal | (2) \#6 (M3) Screws | 100 | 500 |
| BR.75-E6-C | $\begin{gathered} .75 \\ (19.0) \end{gathered}$ | $\begin{gathered} .95 \\ (24.1) \end{gathered}$ |  |  | $\begin{gathered} .76 \\ (19.4) \end{gathered}$ | 100 |  |  | 500 |
| BR2-1.3-X | $\begin{gathered} 2.00 \\ (50.8) \end{gathered}$ | $\begin{gathered} 1.32 \\ (33.5) \end{gathered}$ | $\begin{gathered} 2.25 \\ (57.2) \end{gathered}$ | $\begin{aligned} & 2.50 \\ & (63.5 \end{aligned}$ | $\begin{gathered} 2.12 \\ (54.0) \end{gathered}$ | (2) 1/4 (M6) Screws |  | 10 | 100 |
| BR2-1.3-A-X |  |  |  |  |  | Rubber Adhesive 2.0 lbs (907g) Static Load |  | 10 | 100 |
| BR2-1.5-X |  | $\begin{gathered} 1.59 \\ (40.4) \\ \hline \end{gathered}$ | $\begin{gathered} 2.18 \\ (55.4) \end{gathered}$ | $\begin{gathered} 2.56 \\ (65.0) \end{gathered}$ |  | (2) $1 / 4$ (M6) Screws |  | 10 | 100 |
| BR2-4-X |  | $\begin{gathered} 4.00 \\ (101.6) \end{gathered}$ |  |  |  |  |  | 10 | 100 |
| BR2-6-X |  | $\begin{gathered} 6.00 \\ (152.4) \end{gathered}$ |  |  |  |  |  | 10 | 100 |

## Corner Posts



Designed to pre-form tight bundles at harness corners and breakouts. The top arm pivots for easy removal of completed harness.

CPH Corner Post, High


CPL Corner Post, Low


| Part Number | $\begin{gathered} \text { Max. } \\ \text { Dia. } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | Dimensions in. (mm) |  |  |  |  | Color \& Material | Mounting Method | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D | E |  |  | Std. <br> Pkg. <br> Qty* | Std. <br> Ctn. <br> Qty. |
| CPH.75-S8-X | $\begin{gathered} .75 \\ (19.0) \end{gathered}$ | $\begin{gathered} 1.88 \\ (47.8) \end{gathered}$ | $\begin{gathered} 1.60 \\ (40.8) \end{gathered}$ | $\begin{gathered} 1.35 \\ (34.4) \end{gathered}$ | $\begin{gathered} .90 \\ (22.9) \end{gathered}$ | $\begin{gathered} 1.18 \\ (30.0) \end{gathered}$ | Black Nylon 6.6 | (2) \#8 (M4) Screws | 10 | 100 |
| CPL.75-S8-X |  | $\begin{gathered} 1.08 \\ (27.4) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.52 \\ (38.6) \\ \hline \end{array}$ | $\begin{gathered} .56 \\ (14.2) \end{gathered}$ | $\begin{gathered} 88 \\ (22.4) \\ \hline \end{gathered}$ | $\begin{gathered} 1.11 \\ (28.2) \end{gathered}$ |  |  | 10 | 100 |

## T-Junction Fixture



In the "up" position to form harness.


In the "down" position to tie and remove harness.

Using an integrated harness board nail, the T-Junction Fixture moves to form harnesses. When the harness is complete, the fixture can be pushed down for easy harness removal.


| Max. Bundle Dia. in. (mm) | Dimensions in. (mm) |  |  |  |  | Color$\&$Material | Mounting Method | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D | E |  |  |  |  |
| $\begin{array}{r} 1.34 \\ (34.0) \\ \hline \end{array}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .12 \\ (3.0) \\ \hline \end{gathered}$ | $\begin{gathered} 1.39 \\ (35.1) \end{gathered}$ | $\begin{gathered} .70 \\ (17.8) \\ \hline \end{gathered}$ | $\begin{gathered} 1.12 \\ (28.4) \\ \hline \end{gathered}$ | Black Nylon 6.6 and Nickel Plated Steel | Integral Nail | 10 | 100 |

Wire End Holder


Secures wire ends with or without terminations while harness is being fabricated. Wires can be easily added or removed from the top, but will hold the wire from axial movement. Used with \#28 through \#16 AWG wires.


| Part Number | Dimensions in. (mm) |  |  |  |  |  |  <br> Material | Mounting Method | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D | E | F |  |  |  |  |
| WEH-E8-C | $\begin{gathered} 1.22 \\ (31.0) \\ \hline \end{gathered}$ | $\begin{gathered} .37 \\ (9.4) \\ \hline \end{gathered}$ | $\begin{gathered} .77 \\ (20.0) \\ \hline \end{gathered}$ | $\begin{gathered} .53 \\ (13.5) \\ \hline \end{gathered}$ | $\begin{gathered} .29 \\ (7.4) \\ \hline \end{gathered}$ | $\begin{gathered} .18 \\ (4.6) \\ \hline \end{gathered}$ | Black Acetal | (2) \#8 (M4) Screws | 100 | 1000 |

## Harness Board Nails



Speeds routing of wires. All of the nails have a uniform driving depth insured by a collar stop. Smooth finish on the nails, will not abrade wire jackets.


| Part Number | Dimensions in. (mm) |  |  |  | Material | Mounting Method | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D |  |  |  |  |
| HBN.75-T | $\begin{gathered} 1.40 \\ (35.6) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{aligned} & .075 \\ & (1.9) \end{aligned}$ | $\begin{gathered} .62 \\ (15.8) \end{gathered}$ | Nickel Plated Steel | Hammered into harness board | 200 | 1000 |
| HBN1-T | $\begin{gathered} 1.65 \\ (41.9) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.00 \\ (25.4) \\ \hline \end{array}$ | $\begin{aligned} & .075 \\ & (1.9) \\ & \hline \end{aligned}$ |  |  |  | 200 | 1000 |
| HBN1.5-T | $\begin{gathered} 2.15 \\ (54.6) \end{gathered}$ | $\begin{gathered} 1.50 \\ (38.1) \\ \hline \end{gathered}$ | $\begin{aligned} & .084 \\ & (2.1) \end{aligned}$ |  |  |  | 200 | 1000 |
| HBN2-T | $\begin{gathered} \hline 2.65 \\ (67.3) \\ \hline \end{gathered}$ | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{aligned} & .093 \\ & (2.4) \end{aligned}$ |  |  |  | 200 | 1000 |
| HBN2.5-T | $\begin{gathered} 3.17 \\ (80.5) \end{gathered}$ | $\begin{gathered} 2.50 \\ (63.5) \end{gathered}$ | $\begin{aligned} & .107 \\ & (2.7) \end{aligned}$ |  |  |  | 200 | 1000 |
| HBN3-T | $\begin{gathered} 3.67 \\ (93.2) \\ \hline \end{gathered}$ | $\begin{gathered} 3.00 \\ (76.2) \end{gathered}$ | $\begin{aligned} & .122 \\ & (3.1) \end{aligned}$ |  |  |  | 200 | 1000 |
| HBN4-T | $\begin{gathered} \hline 4.67 \\ (118.6) \\ \hline \end{gathered}$ | $\begin{gathered} 4.00 \\ (101.6) \\ \hline \end{gathered}$ | $\begin{aligned} & .142 \\ & (3.6) \\ & \hline \end{aligned}$ |  |  |  | 200 | 1000 |

Assures that wires are held in a particular orientation in sophisticated wiring harnesses. Consists of fanning strip and fanning strip holder.


Contains evenly spaced "snap slots" to hold wires in place. No sharp edges to damage wire insulation. Becomes part of the wiring harness. Will accept wires up to 18 AWG. Used with FSH40 or FSHH holders.

## Fanning Strip Holders

## Low Holder (FSH40-X)



Used in conjunction with RER.75-S6, BR.75-E6 (BR.5-E6) and CPH.75-S8. Ideal for use with PAT cable tie tool.

| Part Number | Dimensions in. (mm) |  |  |  |  |  | Color \& Material | Mounting Method | Std. <br> Pkg. <br> Qty.* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D | E | F |  |  |  |
| FS156-C | $\begin{gathered} 12.1 \\ (307.3) \\ \hline \end{gathered}$ | $\begin{gathered} .31 \\ (7.9) \end{gathered}$ | $\begin{gathered} \hline .04 \\ (1.0) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 12 \\ (3.0) \\ \hline \end{gathered}$ | $\begin{aligned} & .156 \\ & (4.0) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline .06 \\ (1.5) \\ \hline \end{gathered}$ | Natural Nylon 6.6 | Fanning Strip Holder | 100 |
| FSH40-X | $\begin{gathered} 6.0 \\ (152.4) \\ \hline \end{gathered}$ | $\begin{gathered} .62 \\ (15.7) \\ \hline \end{gathered}$ | $\begin{gathered} .56 \\ (14.2) \\ \hline \end{gathered}$ | $\begin{gathered} 1.50 \\ (38.1) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.0) \\ \hline \end{gathered}$ | $\begin{gathered} \hline .04 \\ (1.0) \\ \hline \end{gathered}$ | Black | \#8 (M4) | 10 |
| FSHH-X | $\begin{gathered} 3.2 \\ (81.3) \end{gathered}$ | $\begin{gathered} 1.4 \\ (36.0) \\ \hline \end{gathered}$ | $\begin{gathered} .60 \\ (15.2) \end{gathered}$ | $\begin{gathered} 1.10 \\ (28.0) \end{gathered}$ | $\begin{gathered} .53 \\ (13.5) \end{gathered}$ | $\begin{gathered} \hline .04 \\ (1.0) \\ \hline \end{gathered}$ | ABS | Screws | 10 |

## Spring Wire <br> Breakout System



Separates and holds wires in a harness while the rest of the harness is being formed. The wires simply pull out from the spring when the harness is complete.

## SHH Spring Holder

Each SHH Spring Holder is supplied with (1) rigid wire piece to hold the spring laterally and two \#8 (M4) 2" (50.8) hex head wood screws. Two sizes available for use with PBSC1 and PBSC6.


| Part Number | Dimensions in. (mm) |  |  | Material in. (mm) | Color | Mounting Method | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| PBSC1-X | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ | $\begin{gathered} .44 \\ (11.2) \end{gathered}$ | - | .035 (.9) Thick Steel | - | Used with SHH1 Spring Holder | 10 | 100 |
| PBSC3-X | $\begin{gathered} 3.00 \\ (76.2) \end{gathered}$ |  |  |  |  | (2) \#8 (M4) Screws | 10 | 100 |
| PBSC6-X | $\begin{gathered} 6.00 \\ (152.4) \\ \hline \end{gathered}$ |  |  |  |  | Used with SHH3 Spring Holder | 10 | 100 |
| PBSC12-X | $\begin{gathered} 12.00 \\ (304.8) \end{gathered}$ |  |  |  |  | (2) \#8 (M4) Screws | 10 | 100 |
| SHH1-S8-X | $\begin{array}{r} 1.85 \\ (47.0) \\ \hline \end{array}$ | $\begin{aligned} & 1.30 \\ & (33) \end{aligned}$ | $\begin{gathered} .53 \\ (13.4) \end{gathered}$ | Nylon 6.6 | Black | (2) \#8 (M4) <br> Screws used with PBSC1 | 10 | 100 |
| SHH3-S8-X | $\begin{gathered} 6.85 \\ (174.0) \end{gathered}$ |  |  |  |  | (2) \#8 (M4) Screws used with PBSC3 or PBSC6 | 10 | 100 |

## Harness Board Standoff Posts



Used to hold a push mount accessories or a push mount cable tie at a specific location on a harness board. The Standoff Post is placed over a hole in the harness board, a bolt is then threaded into the bottom of the standoff from the backside of the board and tightened. Push mount accessories are inserted into the top of the Standoff Post prior to assembly. When the assembly is complete, the harness and the attached push mount are removed from the Standoff Post.


| Part Number | Dimensions in. (mm) |  |  | Used With Part Numbers | Material | Mounting Method | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Std. <br> Pkg. |  |  | Std. Ctn. |
|  | A | B | C |  |  |  | Qty. | Qty. |
| HB2SP19-X | $\begin{gathered} 2.00 \\ (50.8) \\ \hline \end{gathered}$ | $\begin{gathered} .50 \\ (12.7) \end{gathered}$ | $\begin{gathered} .20 \\ (5.2) \end{gathered}$ |  | PLWP, PRWP, WS, vWS, HWS, TPM | Aluminum | $\begin{aligned} & \text { 1/4 (M6) } \\ & \text { Screw } \end{aligned}$ | 10 | 100 |
| HB4SP19-X | $\begin{gathered} 4.00 \\ (101.6) \end{gathered}$ |  |  | 10 |  |  |  | 100 |
| HB6SP19-X | $\begin{gathered} 6.00 \\ (152.4) \end{gathered}$ |  |  | 10 |  |  |  | 100 |
| HB2SP25-X | $\begin{aligned} & 2.00 \\ & (51) \end{aligned}$ |  | $\begin{aligned} & 295 \\ & (7.5) \end{aligned}$ | PLWP, PRWP, PLP, THMS, HCMP, PMCC | 10 |  |  | 100 |
| HB4SP25-X | $\begin{gathered} 4.00 \\ (101.6) \\ \hline \end{gathered}$ |  |  |  | 10 |  |  | 100 |

## Optical Fiber Network Saddles



The product is designed with rounded edges for routing fiber optic cables. This feature provides a very smooth surface to eliminate the potential for snagging and putting stress on the fiber optic cable.


VWS Push Mount Type


VWSDC Dual Capacity Type

| Part Number $\ddagger$ | Max. <br> Bundle Dia. <br> in. (mm) | Dimensions in. (mm) |  |  |  | Material | Color | Where Used | Panel Dimensions in. (mm) |  | Mounting Method in. (mm) | Packaging* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | C | D |  |  |  | Maximum Thickness | Hole Diameter |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. | Bulk <br> Pkg. <br> Qty. | Bulk <br> Ctn. <br> Qty. |
| VWS106-C | $\begin{gathered} 1.06 \\ (26.9) \end{gathered}$ | $\begin{gathered} 1.65 \\ (41.7) \end{gathered}$ | $\begin{gathered} \hline 1.18 \\ (29.9) \end{gathered}$ | $\begin{gathered} 1.30 \\ (31.8) \\ \hline \end{gathered}$ | $\begin{gathered} .34 \\ (8.6) \end{gathered}$ | Nylon 6.6 | Natural | Indoors | $\begin{gathered} .09 \\ (2.3) \end{gathered}$ | $\begin{aligned} & .187 \\ & (4.7) \end{aligned}$ | ```Inserted into Pre-Drilled Hole``` | 100 | 500 | 1000 | 5000 |
| VWS106-C20 |  |  |  |  |  |  | Black |  |  |  |  | 100 | 500 | 1000 | 5000 |
| VWSDC-C |  | $\begin{array}{\|c} \hline 2.64 \\ (66.8) \\ \hline \end{array}$ | $\begin{gathered} 1.26 \\ (32.0) \\ \hline \end{gathered}$ | $\begin{gathered} 2.36 \\ (59.9) \\ \hline \end{gathered}$ | $\begin{gathered} .39 \\ (9.9) \\ \hline \end{gathered}$ |  | Natural |  |  |  |  | 100 | 1000 | 500 | 2500 |

## Waterfall Accessories




CMWB-Waterfall Base


CMWW-Waterfall Wing

| Part Number | Bend Radius Limit in. (mm) | Material | Color | Width <br> in. (mm) | Height in. (mm) | Included in Package | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty.* | Std. Ctn. Qty. |
| CMW-KIT | - | Glass Filled Flame Retardant Nylon 6.6 | Black | $\begin{gathered} 9.60 \\ (243.8) \end{gathered}$ | $\begin{gathered} 6.07 \\ (154.18) \end{gathered}$ | One Base, Two Wings, and Three Cable Ties. | 1 | 10 |
| CMW-KIT10 |  |  | White |  |  |  |  |  |
| CMWB | $\begin{gathered} 1.75 \\ (44.45) \end{gathered}$ |  | Black | $\begin{gathered} 5.24 \\ (133.1) \end{gathered}$ | $\begin{gathered} 3.07 \\ (77.98) \end{gathered}$ | One Base and Three Cable Ties. |  |  |
| CMWB10 |  |  | White |  |  |  |  |  |
| CMWW | $\begin{gathered} 1.0 \\ (25.4) \end{gathered}$ |  | Black | $\begin{gathered} 2.00 \\ (50.6) \end{gathered}$ | $\begin{gathered} 4.87 \\ (123.7) \end{gathered}$ | One Bend Radius Control Wing. |  |  |
| CMWW10 |  |  | White |  |  |  |  |  |

## Stackable Cable Rack Spacers



PANDUIT ${ }^{\circledR}$ Stackable Cable Rack Spacers separate and support cable on standard ladder racks. This product prevents pinch points between the bottom row of cable and the ladder rack rung as a result of the weight of multiple cable layers applied on top of each other. Maximize rack space by stacking products for maximum cable capacity.


| Part Number | Cable Bundles | Bundle Diameter in. (mm) | Material | Color | Mounting Method | Width <br> in. (mm) | Stack <br> Height <br> in. (mm) | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| CRS4-125-X | 4 | $\begin{gathered} 1.25 \\ (31.75) \end{gathered}$ | Glass Filled Flame Retardant Nylon 6.6 | Black | Standard Cross Section Cable Ties | $\begin{gathered} 5.24 \\ (133.1) \\ \hline \end{gathered}$ | $\begin{gathered} 1.42 \\ (36.07) \end{gathered}$ | 10 | 100 |
| CRS1-125-X | 1 |  |  |  |  | $\begin{gathered} 1.55 \\ (39.4) \end{gathered}$ |  |  |  |
| CRS6-X | 6 | $\begin{gathered} 0.8 \\ (20.32) \end{gathered}$ | Polycarbonate/ABS Blend |  |  | $\begin{gathered} 5.25 \\ (133.35) \end{gathered}$ | $\begin{gathered} 1.00 \\ (25.4) \end{gathered}$ |  |  |
| CRS1-X | 1 |  |  |  |  | $\begin{gathered} 1.13 \\ (28.58) \end{gathered}$ |  |  |  |

Vertical D-Rings


The PANDUIT ${ }^{\oplus}$ Vertical D-Ring provides open access cable management. The front arm of the D-Ring rotates $90^{\circ}$ to allow entire cable bundles to be inserted. Screw holes are spaced according to EIA standards and allow for installation on standard equipment racks.


CMVDR1, CMVDR1S CMVDR2, CMVDR2S

cinus

| Part Number | Dimensions in. (mm) |  |  |  |  | Material | Color | Mounting Method | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D | E |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| CMVDR1 | $\begin{gathered} \hline 4.80 \\ (121.9) \\ \hline \end{gathered}$ | $\begin{gathered} 1.18 \\ (30.0) \end{gathered}$ | $\begin{gathered} \hline 5.72 \\ (145.2) \\ \hline \end{gathered}$ | $\begin{gathered} 2.05 \\ (52.07) \end{gathered}$ | $\begin{gathered} 1.75 \\ (44.45) \end{gathered}$ | Flame Retardant Polycarbonate | Black | (2) $1 / 4$ (M6) Screws | 1 | 10 |
| CMVDR1S | $\begin{gathered} 2.4 \\ (60.9) \end{gathered}$ |  | $\begin{gathered} 3.26 \\ (82.8) \end{gathered}$ |  |  |  |  |  |  |  |
| CMVDR2 | $\begin{gathered} 4.80 \\ (121.9) \end{gathered}$ | $\begin{gathered} 2.40 \\ (60.9) \end{gathered}$ | $\begin{gathered} 5.72 \\ (145.2) \\ \hline \end{gathered}$ | $\begin{gathered} 3.30 \\ (83.82) \end{gathered}$ |  |  |  |  |  |  |
| CMVDR2S | $\begin{gathered} 2.40 \\ (60.9) \\ \hline \end{gathered}$ |  | $\begin{gathered} 3.26 \\ (82.8) \\ \hline \end{gathered}$ |  |  |  |  |  |  |  |
| CMVDRC | $\begin{gathered} 4.72 \\ (119.88) \end{gathered}$ | $\begin{gathered} 5.09 \\ (129.29) \end{gathered}$ | $\begin{gathered} 5.66 \\ (143.64) \end{gathered}$ | $\begin{gathered} 8.75 \\ (222.25) \\ \hline \end{gathered}$ | $\begin{gathered} 1.12 \\ (28.58) \end{gathered}$ |  |  |  |  |  |

Threaded Rod Cover


PANDUIT ${ }^{\circledR}$ Threaded Rod Cover protects cables from abrasion caused by contact with threaded rod.

- Manufactured from material that meets UL94V-0 specifications
- Soft material for easy installation
- Available in 18 " lengths

|  |  |  |  | Packaging* |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Part Number | For Threaded <br> Rod Size <br> in. (mm) | Material | Color | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| TRC18FR-X8 | $1 / 2$ to $5 / 8$ <br> $(12.7)$ to $(15.88)$ | Flame Retardant Polyethylene | Gray | 10 | 100 |

## TAK-TY ${ }^{\oplus}$ Hook \& Loop Cable Tie Mounts



Mounting base for use with $3 / 4$ " $T_{A K}-T^{\circledR}{ }^{\circledR}$ Hook \& Loop Cable Ties

- For indoor use only


| Part Number $\ddagger$ | Used with Cable Ties | Mounting Method | Maximum Static Load lbs. (g) | Material | Color | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| ABMT-A-C | TAK-TY ${ }^{\circledR}$ Hook \& Loop Cable Ties | Rubber Adhesive | . 38 (172) | Nylon 6.6 | Natural | 100 | 1000 |
| ABMT-A-C20 |  |  |  |  | Black |  |  |
| ABMT-S6-C |  | \#6 (M3) Screw | - |  | Natural |  |  |
| ABMT-S6-C20 |  |  |  |  | Black |  |  |
| ABMT-S6-C60 |  |  |  | Flame Retardant Nylon 6.6 | Black |  |  |
| ABMT-S6-C69 |  |  |  |  | Natural |  |  |

■Used with all PANDUIT ${ }^{\oplus}$ HLC/HLT/HLS and HLM TAK-TY ${ }^{\circledR}$ options found on page 40.

Flat Pan-Post ${ }^{\text {TM }}$ Standoff


Used to secure cable in vertical or horizontal configurations. Mounting hole configuration meets EIA/TIA specifications for use on racks or in enclosures.


PPF2SV

| Part Number | Used With Cable Ties** | $\begin{aligned} & \text { Dimensions } \\ & \text { in. (mm) } \\ & \hline \end{aligned}$ | Color \& Material | Mounting Method | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| PPF2S-S25-V | M, I, S | See Drawing | Natural Nylon 6.6 | (2) $1 / 4$ (M6) Screws | 5 | 50 |
| PPF2S-S25-V69 |  |  | Natural Flame Retardant Nylon 6.6 |  | 5 | 50 |
| PPF2SV-S25-V | M, I, S, HS, LH, H, HLM |  | Natural Nylon 6.6 |  | 5 | 50 |
| PPF2SV-S25-V69 |  |  | Natural Flame Retardant Nylon 6.6 |  | 5 | 50 |

■Used with all PANDUIT ${ }^{\oplus}$ Hook \& Loop Cable Ties found on page 40.

## Communication Cable Management Kit for Cabinets



Kit of wire management accessories specifically designed for use in a network cabinet or enclosure.

Kit includes the following:

- TAK-TY ${ }^{\circledR}$ Hook \& Loop cable tie (HLM-15R0)/1 roll
- Nylon Cable tie (ILT3S)/24 pieces
- Adhesive backed mounts (ABM3H-A and ABM112-A) 6 pieces each
- Flat Post Standoff (PPF2S-S25)/8 pieces
- Push mount (PWMS-H25)/6 pieces
- Vertical wire saddle (VWS106)/4 pieces

|  | Packaging $^{*}$ |  |
| :--- | :---: | :---: |
|  | Std. | Std. |
|  | Pkg. | Ctn. |
|  | Qty. |  |

## PANDUIT ${ }^{\oplus}$ Selection and Use of Adhesive Mounts

## General Introduction

PANDUIT ${ }^{\circledR}$ adhesive mounts provide a quick, economical and dependable method of supporting, routing and protecting wires or cables. Some are used with PANDUIT ${ }^{\oplus}$ cable ties and others can be used without cable ties. Adhesive backed mounts adhere to a variety of surfaces. This alternative to mechanical fasteners offers the advantage of lower installed cost with safe, easy to use, quality products.

## Applications

- To route wires in control panels and switchboards
- To support bundles of wires away from moving mechanical devices
- Routing and harnessing cables, both indoors and out, to prevent safety hazards
- To organize flat cables in many locations with low profile construction
- Ideal for supporting wire bundles where holes cannot be put into the substrate

- To separate groups of wires for identification


## Markets

- Original Equipment Manufacturers (OEM)
- Construction Industry
- Telecommunication Systems
- CATV
- Aerospace Industry
- Utilities
- Electronic Components
- Transportation Industry
- Appliance Manufacturers
- Maintenance and Repair Operations (MRO)



## General Mount Guidelines

PANDUIT ${ }^{\circledR}$ pressure sensitive adhesive (foam tape) mounts are intended to secure wire bundles or other light objects to smooth surfaces. These mounts are not designed to support excessive loads and should not be used when the maximum expected load exceeds the rated capacity of the mount.

## Choosing the Right Adhesive

PANDUIT ${ }^{\oplus}$ offers two standard pressure sensitive foam tapes which are available on most adhesive backed wiring accessories products. The general purpose tape is produced with a rubber based adhesive and is identified by an "-A" in the part number. This tape develops its strength extremely fast and can be used in environments with temperatures ranging from $-20^{\circ} \mathrm{F}$ to $+120^{\circ} \mathrm{F}$. It is recommended that rubber based adhesive mounts dwell 2 hours after installation, prior to loading. Rubber based adhesive tape is the best choice for most adhesive mount applications, including powder coated surfaces.

Acrylic based adhesive tape is also available and is identified by an "-AT" in the part number. This tape is for use in environments where continuous exposure to temperatures as high as $180^{\circ} \mathrm{F}$ is possible. Acrylic based adhesive develops its maximum strength over a longer period of time than rubber based adhesive. It is recommended that acrylic adhesive mounts dwell 8 hours after installation, prior to loading. Acrylic based adhesive tape is a good choice for environments with prolonged exposure to UV rays or temperatures above $120^{\circ} \mathrm{F}$.

PANDUIT ${ }^{\oplus}$ also offers a two-part epoxy for use in applications where excessive loading is required, or where the surface to which the mount must be applied is porous rather than smooth. This adhesive is formulated specifically for use on PANDUIT ${ }^{\circledR}$ mounts, and is packaged in pre-measured cups to insure the proper ratio of resin and hardener are mixed, eliminating wasted epoxy.

## Application Chart

Since PANDUIT ${ }^{\oplus}$ manufactures adhesive backed mounts with a variety of adhesive types, this chart should be used as a guideline for choosing the best adhesive for often-encountered conditions. Each type of adhesive is rated good, fair or poor for some specific mounting surfaces and/or chemical environments.

## Mount Spacing

To determine the number of mounts to use in a given application, the following formula can be used as a guideline:

| Surfaces | Rubber Based Foam Tape Mounts | Acrylic Based Foam Tape Mounts | Epoxy Applied Adhesive Mounts |
| :---: | :---: | :---: | :---: |
| Plastics | Good | Good | Good |
| Wood | Good | Good | Good |
| Glass | Fair | Good | Good |
| Painted Surfaces | Good | Good | Fair |
| Powder Coating | Good | Fair | Good |
| Metal | Good ${ }^{1}$ | Good' | Good |
| Paper | Good | Good | Fair |
| Concrete, Stone, Masonry | Not Recommended | Not Recommended | Good |
| Chemical Resistance |  |  |  |
| Water | Good | Good | Poor |
| Oil | Poor | Fair ${ }^{3}$ | Good |
| Gasoline | Poor | Fair ${ }^{3}$ | Fair |
| Dilute Acids | Poor | Fair ${ }^{3}$ | Fair |
| Dilute Alkalis | Good | Fair ${ }^{3}$ | Fair |
| Organic Solvents | Poor | Fair ${ }^{3}$ | Not Recommended |
| Outdoor Exposure | Not Recommended | Good | Good ${ }^{2}$ |

1. Not recommended for use on copper or brass.
2. Mounts manufactured from outdoor material only. For specific applications, individual testing prior to extensive
use is suggested.
3. Depends on concentration, exposure time and chemical composition.
$\frac{\text { Cable or weight (lbs./ft.) }}{\text { Static Load rating of Mount (lbs/mt.) }}=$ Spacing $\quad \frac{\text { Mounts }}{\mathrm{Ft}}$

For specific applications we recommend individual testing prior to production use.

## Surface Preparation

For best results, PANDUIT ${ }^{\circledR}$ adhesive mounts should be applied to clean, dry, grease-free surfaces. We recommend that the surface be cleaned prior to mount installation. For rubber and acrylic based foam tape adhesives, a blend of isopropyl alcohol and water $50 / 50$ may be used to clean most surfaces.
For epoxy type adhesives, especially masonry surfaces, be sure to clean all loose particles away before mount installation. Some surface abrasion is recommended to achieve maximum strength. A light rubbing with medium grit emery cloth or sandpaper is best. Wash after abrading.

## Proper Installation Techniques For Pressure Sensitive Adhesive Mounts

For proper installation of adhesive mounts with foam tape, simply remove the release liner and place the mount in the desired location. Avoid touching the adhesive prior to positioning the mount. Apply firm pressure to the mount for 5 seconds to insure proper adhesion.


Clean surface with a clean cloth and isopropyl alcohol.


Allow surface to air dry.


Remove the release liner, being careful not to touch the adhesive.


Apply full thumb pressure for at least 5 seconds.


Allow mount to properly dwell.

## Epoxy Adhesive Mounts

PANDUIT ${ }^{\circledR}$ EMA adhesive is a two-part epoxy cement which is packaged in convenient mixer cups containing an equal amount of resin and hardener. Peel the protective covering off and pop the center of the cup in to form a mixing bowl. Each cup is supplied with a mixer stick and contains enough epoxy to properly apply three EMS mounts. The resin and hardener should be thoroughly mixed together until the epoxy is a consistent and uniform color. The mixer stick can then be used to apply the adhesive to the mount. The epoxy should be forced into the grooves on the bottom of the mount to obtain optimum bond performance. The mount should be applied to the surface with light pressure and a back-and-forth twisting motion. Hardening of the epoxy begins five minutes after mixing at room temperature.

## Proper Storage Conditions

All PANDUIT ${ }^{\oplus}$ adhesive products have an expiration date printed on the package label. Use the following storage guidelines:

1. For rubber and acrylic based foam tape adhesives, store in temperatures of $70^{\circ} \mathrm{F}\left(21^{\circ} \mathrm{C}\right)$ and $45 \%$ Relative Humidity (R.H.).
2. For epoxy type adhesives, store in temperatures of $40^{\circ} \mathrm{F}\left(4^{\circ} \mathrm{C}\right)$ to $75^{\circ} \mathrm{F}\left(25^{\circ} \mathrm{C}\right)$ and relative humidity not in excess of $45 \%$. Storage in opened containers is not recommended. Using the guidelines above, the shelf life of foam tape is 3 years. Shelf life of epoxy is 1 year. Deviation from the recommended storage conditions may reduce the shelf life or adhesive strength. In any case, adhesive products should never be stored near heating vents or other heat sources, and storage in lower temperatures than those recommended may increase the shelf life.

## Stock Rotation

Adhesive mount inventory should be rotated in order to insure the quality of the adhesive foam tape. Each package of PANDUIT ${ }^{\text {® }}$ adhesive backed mounts has a Quality Control Number and a best-if-used-by date on the package label. The best-if-used-by date provides the customer with an accurate way to control the rotation of inventory, and, as is the case with all PANDUIT ${ }^{\oplus}$ products, the Quality Control Number provides
 complete traceability for all components that go into a specific production run of product.

## Mount Removal

There is no simple or easy method for removing PANDUIT ${ }^{\circledR}$ adhesives. A thin wire or razor blade can be moved in between the surfaces when removing foam tape mounts; however, the adhesive residue will remain on the surface. Epoxy adhesives may be removed with a commercial paint stripping solution.

## PaNDUIT ${ }^{\text {® }}$ Wiring Accessories Bulk Package Part Numbers

## Bulk Package Part Numbers

The following is an alpha-numeric cross reference of Standard Package Wiring Accessories parts with the corresponding Bulk Package part numbers.

| Standard Part No. | Bulk Part No. |
| :---: | :---: |
| A |  |
| ABMM-A-C | ABMM-A-D |
| ABMM-AT-C | ABMM-AT-D |
| ABMM-AT-C0 | ABMM-AT-D0 |
| ABMS-A-C | ABMS-A-D |
| ABM1M-A-C | ABM1M-A-M |
| ABM1M-AT-C | ABM1M-AT-M |
| ABM100-A-C | ABM100-A-D |
| ABM100-AT-C | ABM100-AT-D |
| ABM100-AT-C0 | ABM100-AT-D0 |
| ABM100-S6-C | ABM100-S6-D |
| ABM100-S6-C69 | ABM100-S6-D69 |
| ABM112-A-C | ABM112-A-D |
| ABM112-AT-C | ABM112-AT-D |
| ABM112-AT-C0 | ABM112-AT-D0 |
| ABM112-S6-C | ABM112-S6-D |
| ABM112-S6-C69 | ABM112-S6-D69 |
| ABM2S-A-C | ABM2S-A-D |
| ABM2S-AT-C | ABM2S-AT-D |
| ABM2S-AT-C0 | ABM2S-AT-D0 |
| ABM3H-A-L | ABM3H-A-T |
| ABM3H-AT-L | ABM3H-AT-T |
| ABM4H-A-L | ABM4H-A-T |
| ABM4H-AT-L | ABM4H-AT-T |
| ACC19-A-C | ACC19-A-M |
| ACC19-A-C20 | ACC19-A-M20 |
| ACC19-AT-C | ACC19-AT-M |
| ACC19-AT-C0 | ACC19-AT-M0 |
| ACC38-A-C | ACC38-A-M |
| ACC38-A-C20 | ACC38-A-M20 |
| ACC38-AT-C | ACC38-AT-M |
| ACC38-AT-C0 | ACC38-AT-M0 |
| ACC62-A-C | ACC62-A-M |
| ACC62-A-C0 | ACC62-A-M0 |
| ACC62-A-C20 | ACC62-A-D20 |
| ACC62-AT-C0 | ACC62-AT-M0 |
| AM2-C | AM2-M |
| ARC.68-A-Q | ARC.68-A-C |
| ARC.68-A-Q14 | ARC.68-A-C14 |
| ARC.68-S6-Q | ARC.68-S6-C |
| ARC.68-S6-Q14 | ARC.68-S6-C14 |
| ASMS-A-X | ASMS-A-T |
| ASMS-A-X0 | ASMS-A-T0 |
| $B$ |  |
| BCS-L100 | BCS-D100 |
| BCS-C115 | BCS-D115 |
| BEC38-A-L | BEC38-A-T |
| BEC38-A-L20 | BEC38-A-T20 |
| BEC38-A-L0 | BEC38-A-T0 |
| BEC62-A-L | BEC62-A-T |
| BEC62-A-L20 | BEC62-A-T20 |
| BEC62-A-L0 | BEC62-A-T0 |
| BEC75-A-L | BEC75-A-T |
| BEC75-A-L20 | BEC75-A-T20 |
| BEC75-A-L0 | BEC75-A-T0 |
| BECP38H25-L | BECP38H25-T |
| BECP38H25-L20 | BECP38H25-T20 |
| BECP75H25-L | BECP75H25-T |
| BECP75H25-L20 | BECP75H25-T20 |


| Standard Part No. | Bulk Part No. |
| :---: | :---: |
| C |  |
| CBLS18-C | CBLS18-M |
| CBLS25-C | CBLS25-M |
| CBLS37-C | CBLS37-M |
| CBLS50-C | CBLS50-M |
| CBLS62-C | CBLS62-M |
| CBLS75-C | CBLS75-M |
| CBP12-C | CBP12-M |
| CBP25-C | CBP25-M |
| CBP31-C | CBP31-M |
| CBP37-C | CBP37-M |
| CBP50-C | CBP50-M |
| CBP62-C | CBP62-M |
| CBP75-C | CBP75-M |
| CBP87-C | CBP87-M |
| CBP100-C | CBP 100-M |
| CCS12-S8-C | CCS12-S8-M |
| CCS12-S8-C0 | CCS12-S8-M0 |
| CCS19-S8-C | CCS19-S8-M |
| CCS19-S8-C0 | CCS19-S8-M0 |
| CCS25-S8-C | CCS25-S8-M |
| CCS25-S8-C0 | CCS25-S8-M0 |
| CCS25-S10-C | CCS25-S10-M |
| CCS25-S10-C0 | CCS25-S10-M0 |
| CCS31-S8-C | CCS31-S8-M |
| CCS31-S8-C0 | CCS31-S8-M0 |
| CCS38-S8-C | CCS38-S8-M |
| CCS38-S8-C0 | CCS38-S8-M0 |
| CCS44-S8-C | CCS44-S8-M |
| CCS44-S8-C0 | CCS44-S8-M0 |
| CCS50-S8-C | CCS50-S8-M |
| CCS50-S8-C0 | CCS50-S8-M0 |
| CCH12-S10-C | CCH12-S10-M |
| CCH12-S10-C0 | CCH12-S10-M0 |
| CCH19-S10-C | CCH19-S10-M |
| CCH19-S10-C0 | CCH19-S10-M0 |
| CCH25-S10-C | CCH25-S10-M |
| CCH25-S10-C0 | CCH25-S10-M0 |
| CCH31-S10-C | CCH31-S10-M |
| CCH31-S10-C0 | CCH31-S10-M0 |
| CCH38-S10-C | CCH38-S10-M |
| CCH38-S10-C0 | CCH38-S10-M0 |
| CCH44-S10-C | CCH44-S10-M |
| CCH44-S10-C0 | CCH44-S10-M0 |
| CCH50-S10-C | CCH50-S10-M |
| CCH50-S10-C0 | CCH50-S10-M0 |
| CCH56-S10-C | CCH56-S10-M |
| CCH56-S10-C0 | CCH56-S10-M0 |
| CCH62-S10-C | CCH62-S10-M |
| CCH62-S10-C0 | CCH62-S10-M0 |
| CCH69-S10-C | CCH69-S10-D |
| CCH69-S10-C0 | CCH69-S10-D0 |
| CCH75-S10-C | CCH75-S10-M |
| CCH75-S10-C0 | CCH75-S10-M0 |
| CCH81-S10-C | CCH81-S10-M |
| CCH81-S10-C0 | CCH81-S10-M0 |
| CCH87-S10-C | CCH87-S10-M |
| CCH87-S10-C0 | CCH87-S10-M0 |
| CCH100-S10-C | CCH100-S10-M |
| CCH100-S10-C0 | CCH100-S10-M0 |


| Standard Part No. | Bulk Part No. |
| :---: | :---: |
| E |  |
| EMA-X | STD. ONLY |
| EMS-A-C | EMS-A-D |
| EMS-A-C0 | EMS-A-D0 |
| EMSK3-1-3-0 | EMSK3-1-3-X |
| EMSK3-1-X0 | EMSK3-1-C0 |
| EMSK12-4-12-X0 | EMSK12-4-12-C0 |
| F |  |
| FCBI1-S10-C20 | FCBI1-S10-M20 |
| FCBI2-S10-C20 | FCBI2-S10-M20 |
| FCBI3-S10-C20 | FCBI3-S10-M20 |
| FCC5-A-C8 | FCC5-A-D8 |
| FCC-A-C8 | FCC-A-D8 |
| FCH2-A-C14 | FCH2-A-T14 |
| FCM1-A-C14 | FCM1-A-T14 |
| FCM1-S6-C14 | FCM1-S6-T14 |
| FCM2-A-C14 | FCM2-A-T14 |
| FCM2-S6-C14 | FCM2-S6-T14 |
| FCM1.2-A-C14 | FCM1.2-A-T14 |
| FCM1.2-S6-C14 | FCM1.2-S6-T14 |
| FCM3.25-A-L14 | FCM3.25-A-T14 |
| FCM3.25-S6-L14 | FCM3.25-S6-T14 |
| FCPI1-C20 | FCPI1-M20 |
| FCPI2-C20 | FCPI2-M20 |
| FCPI3-C20 | FCPI3-M20 |
| H |  |
| HCME06A12-C130 | HCME06A12-M130 |
| HCMP06B12-C20 | HCMP06B12-M20 |
| HCMP06C12-C20 | HCMP06C12-M20 |
| HWS2819-C | HWS2819-M |
| K |  |
| KIMS-H366-C2 | KIMS-H366-M2 |
| KIMS-H430-C6 | KIMS-H430-M6 |
| KIMS-H500-C4 | KIMS-H500-M4 |
| L |  |
| LPFCM14-A-C14 | LPFCM14-A-D14 |
| LPFCM22-A-C14 | LPFCM22-A-D14 |
| LPFCM34-A-C14 | LPFCM34-A-D14 |
| LPMM-S2-C | LPMM-S2-M |
| LPMM-S5-C | LPMM-S5-M |
| LPMS-S8-C | LPMS-S8-M |
| LWC19-A-C | LWC19-A-M |
| LWC19-A-C14 | LWC19-A-M14 |
| LWC19-H25-C | LWC19-H25-M |
| LWC19-H25-C14 | LWC19-H25-M14 |
| LWC25-A-C | LWC25-A-D |
| LWC25-A-C14 | LWC25-A-D14 |
| LWC25-H25-C | LWC25-H25-D |
| LWC25-H25-C14 | LWC25-H25-D14 |
| LWC38-A-C | LWC38-A-D |
| LWC38-A-C14 | LWC38-A-D14 |
| LWC38-H25-C | LWC38-H25-D |
| LWC38-H25-C14 | LWC38-H25-D14 |
| LWC50-A-L | LWC50-A-T |
| LWC50-A-L14 | LWC50-A-T14 |
| LWC50-H25-L | LWC50-H25-T |
| LWC50-H25-L14 | LWC50-H25-T14 |
| LWC75-A-L | LWC75-A-C |
| LWC75-A-L14 | LWC75-A-C14 |

## PANDUIT ${ }^{\text {® }}$ Wiring Accessories Bulk Package Part Numbers

## Bulk Package Part Numbers (continued)

The following is an alpha-numeric cross reference of Standard Package Wiring Accessories parts with the corresponding Bulk Package part numbers.

| Standard Part No. | Bulk Part No. |
| :---: | :---: |
| LWC75-H25-L | LWC75-H25-C |
| LWC75-H25-L14 | LWC75-H25-C14 |
| LWC100-A-L | LWC100-A-C |
| LWC100-A-L14 | LWC100-A-C14 |
| LWC100-H25-L | LWC100-H25-C |
| LWC100-H25-L14 | LWC100-H25-C14 |
| M |  |
| MBMS-S10-C | MBMS-S10-M |
| MMS8 | STD. ONLY |
| MP150-C <br> THRU <br> MP350-C | MP150-M <br> THRU <br> MP350-M |
| $\begin{aligned} & \text { MP150-C0 } \\ & \text { THRU } \\ & \text { MP350-C0 } \end{aligned}$ | $\begin{aligned} & \text { MP150-M0 } \\ & \text { THRU } \\ & \text { MP350-MO } \end{aligned}$ |
| BULK ONLY | $\begin{gathered} \hline \text { MP150R } \\ \text { THRU } \\ \text { MP250R } \end{gathered}$ |
| MPMS19-C0 | MPMS19-M0 |
| MPMH38-L0 | MPMH38-D0 |
| MPMS25-C0 | MPMS25-M0 |
| MPMWH32-L0 | MPMWH32-D0 |
| P |  |
| PBMS-H25-C | PBMS-H25-M |
| PBMS-H25-C14 | PBMS-H25-M14 |
| PC038-H25D-C0 | PC038-H25D-D0 |
| PC050-H25D-C0 | PC050-H25D-D0 |
| PC062-H25D-C0 | PC062-H25D-D0 |
| PC075-H25D-C0 | PC075-H25D-D0 |
| PC087-H25D-C0 | PC087-H25D-D0 |
| PC100-H25D-C0 | PC100-H25D-T0 |
| PC112-H25D-C0 | PC112-H25D-T0 |
| PC125-H25D-C0 | PC125-H25D-T0 |
| PLA2S-A-Q | PLA2S-A-C |
| PMCC38H25-C | PMCC38H25-M |
| PM2H25-C | PM2H25-M |
| PP1S-S10-X | PP1S-S10-C |
| PP2S-S10-X | PP2S-S10-C |
| PP2S-S12-X | PP2S-S12-C |
| PRA2S-A-Q | PRA2S-A-C |
| PWMS-H25-C | PWMS-H25-M |
| R |  |
| RAFCBI1-S6-C20 | RAFCBI1-S6-M20 |
| RAFCBI2-S6-C20 | RAFCBI2-S6-M20 |
| RAFCBI3-S6-C20 | RAFCBI3-S6-M20 |
| S |  |
| SICH25-C | SICH25-M |
| SICH38-C | SICH38-M |
| SICH50-C | SICH50-M |
| SICH75-C | SICH75-M |
| SMS-A-C | SMS-A-D |


| Standard Part No. | Bulk Part No. |
| :---: | :---: |
| T |  |
| TA1S8-C | TA1S8-M |
| TA1S10-C | TA1S10-M |
| TA2-C | TA2-M |
| THASS8-C | THASS8-M |
| THASS8-C30 | THASS-M30 |
| THASS10-C | THASS10-M |
| THASS10F-C30 | THASS10F-M30 |
| THASS25-C | THASS25-M |
| THASS25-C30 | THASS25-M30 |
| THASS8F-C | THASS8F-M |
| THASS8F-C30 | THASS8F-M30 |
| THASS10F-C | THASS10F-M |
| THASS10F-C30 | THASS10F-M30 |
| THASS25F-C | THASS25F-M |
| THASS25F-C30 | THASS25F-M30 |
| THAUF4-X | THAUF4-C |
| THM1SC-C | THM1SC-M |
| THM1SC-C30 | THM1SC-M30 |
| THMSC35-C30 | THMSC35-M30 |
| THMSC35-C639 | THMSC35-M639 |
| THMSC35-C630 | THMSC35-M630 |
| THMSC35F-C630 | THMSC35F-M630 |
| THMSC35F-C39 | THMSC35-M39 |
| THMSC35F-C639 | THMSC35-M639 |
| THMSC60-C30 | THMSC60-M30 |
| THMSC60-C39. | THMSC60-M39 |
| THMSC60F-C30 | THMSC60F-M30 |
| THMSC60F-C39 | THMSC60F-M39 |
| THMSC85-C30 | THMSC85-M30 |
| THMSC85-C39 | THMSC85-M39 |
| THMSP25-C | THMSP25-M |
| THMSP25-C30 | THMSP25-M30 |
| THMSP25F-C30 | THMSP25F-M30 |
| TMEH-S8-Q0 | TMEH-S8-C0 |
| TMEH-S10-Q0 | TMEH-S10-C0 |
| TMEH-S25-Q0 | TMEH-S25-C0 |
| TMSH50-C300 | TMSH50-T300 |
| TMSTHS10-C0 | TMSTHS10-D0 |
| TMSTHS13-C0 | TMSTHS13-D0 |
| TMSTHS16-C0 | TMSTHS16-D0 |
| TMSTHS19-C0 | TMSTHS16-D0 |
| TMSTLHS5-C0 | TMSTLHS5-M0 |
| TMSTLHS6-C0 | TMSTLHS6-M0 |
| TMSTLHS8-C0 | TMSTLHS8-M0 |
| TM1A-C | TM1A-M |
| TM1S4-C | TM1S4-M |
| TM1S6-C | TM1S6-M |
| TM2A-C | TM2A-M |
| TM2PWH25-C | TM2PWH25-M |
| TM2R6-C | TM2R6-M |
| TM2S6-C | TM2S6-M |


| Standard Part No. | Bulk Part No. |
| :--- | :--- |
| TM2S8-C | TM2S8-M |
| TM2S8-C100 | TM2S8-M100 |
| TM3A-C | TM3A-M |
| TM3R6-C | TM3R6-M |
| TM3S10-C | TM3S10-M |
| TM3S25-C | TM3S25-M |
| TM3S8-C | TM3S8-M |
| TM3S8-C100 | TM3S8-M100 |
| TP2-C | TP2-M |
| TP4H-C | TP4H-D |
| TWR-C | VCC25-A-M |
|  | VCC50-A-T |
| VCC25-A-C | VCS-25-D |
| VCC50-A-C | VCS-25-D100 |
| VCS-25-L | VWS106-M |
| VCS-25-L100 | VWS106-M20 |
| VWS106-C | VWS4218-M |
| VWS106-C20 | VWS4238-M |
| VWS4218-C | VWS4274-M |
| VWS4238-C | VWS42105-M |
| VWS4274-C | VWSDC-D |
| VWS42105-C | WS75-25-M |
| VWSDC-C | WS75-50-M |
|  | WS75-75-M |
| WS75-25-C |  |
| WS75-50-C | WS75-75-C |

Heat Shrink


## Spiral Wrap



Corrugated Loom Tubing


PVC Non-Shrink Tubing


Grommet Edging


Braided Sleeving


Split Harness Wrap


Abrasion Protection for Wire, Cable, Hydraulic and Pneumatic Tubing

PANDUIT ${ }^{\circledR}$ Heat Shrink Tubing — Heat Shrink Tubing Quick Selection Guide
Quick reference for PANDUIT ${ }^{\circledR}$ Heat Shrinking for specific location applications

|  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U.L. Listed |  |  |  |  |  |  |  |  |  | X |
|  | UL Recognized | X $\ddagger$ | X |  | X |  | X |  |  |  |  |
|  | CSA Certified | X $\ddagger \checkmark$ | X ${ }^{\text {x }}$ |  |  |  | XV |  |  |  | X** |
|  | VW-1 Rated |  | X |  | X |  | X |  |  |  |  |
|  | Very Flexible |  | X | X |  |  |  |  |  |  |  |
|  | Flexible | X |  |  |  |  | X | X |  | X |  |
|  | Semi-Rigid |  |  |  | X | X |  |  | X |  | X |
|  | Thin Wall | X | X | X | X | X | X | X | X | X |  |
| $0$ | Thick Wall |  |  |  |  |  |  |  |  |  | X |
|  | Cross-Linked Material | X | X | X | X |  | X | X | X | X | X |
| 0 | Colors Available | X | X |  |  |  |  |  |  |  | $\mathrm{X}^{*}$ |
| $\bar{\sim}$ | High Shrink Ratio |  |  |  |  |  |  |  | 2.5:1 | 3:1 | 3:1 |
|  | Flame Retardant | X $\ddagger$ | X | X | X | X | X | X | X | X | X |
|  | Adhesive Lined (Dual Wall) |  |  |  |  |  |  | X | X | X | X |
|  | Meets Military Specification | X | X | X | X | X |  | X | X | X | X |
| 4 | Below Ground Application |  |  |  |  |  |  |  |  |  | X |
|  | High Temp Applications(>250%) |  |  |  | X | X |  |  |  |  |  |
|  | Highly Chemical Resistant |  |  |  | X | X |  |  |  |  |  |
|  | Low Coefficient of Friction |  |  |  |  | X |  |  |  |  |  |
|  | Custom Cut Lengths | X | X | X | X | X | X | X | X | X | X |
|  | Standard 6" pieces | X | X |  |  |  |  | X |  | X |  |
|  | Standard 4' lengths | X | X |  | X | X |  | X | X | X | X |
| *Black/Red | Small 25' Reels | X | X | X |  |  | X |  |  |  |  |
| **Except red | Large Reels | X | X | X |  |  | X |  |  |  |  |
| $\ddagger$ Except clear | IP Rating | 62 | 62 | 62 | 62 | - | 62 | 66 | 66 | 66 | 68 |
| , Except sizes over 1" | Found on Page. . | $\begin{array}{\|c\|} \hline 141- \\ 144 \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 145- \\ 146 \\ \hline \end{array}$ | 148 | 150 | 149 | 147 | 151 | 153 | 152 | 154 |

See page 160 for IP Technical information.

## Thin Wall Heat Shrink Part Number System

|  | HSTT 12 | - 48 |
| :---: | :---: | :---: |
|  |  |  |
| Type | Expanded Diameter | Tube Length |
| HSTT = Thin Wall | $05=3 / 64$ " $(1.2 \mathrm{~mm})$ | $48^{\prime \prime}=(1.2 \mathrm{~m})$ |
| HSTTV = Thin Wall VW-1 | $06=1 / 16^{\prime \prime}(1.6 \mathrm{~mm})$ | NONE = Reel |
| HSTTN = Thin Wall Neoprene | $09=3 / 32^{\prime \prime}(2.4 \mathrm{~mm})$ |  |
| HSTTK = Thin Wall KYNAR^ | $12=1 / 8^{\prime \prime}(3.2 \mathrm{~mm})$ |  |
| HSTTT = Thin Wall TFE TEFLON■ | $19=3 / 16^{\prime \prime}(4.8 \mathrm{~mm})$ |  |
| HSTTP = Thin Wall PVC | $25=1 / 44^{\prime \prime}(6.4 \mathrm{~mm})$ |  |
| HSTTVA = Flexible Adhesive Lined | $38=3 / 8{ }^{\prime \prime}(9.5 \mathrm{~mm})$ |  |
| HSTTRA $=$ Semi-Rigid Adhesive Lined | $50=1 / 2^{\prime \prime}(12.7 \mathrm{~mm})$ |  |
| HSTTA $=$ Thin Wall Adhesive Lined | $75=3 / 4$ " (19.0mm) |  |
|  | $100=1 "(25.4 \mathrm{~mm})$ |  |
|  | $150=1-1 / 2^{\prime \prime}(38.1 \mathrm{~mm})$ |  |
|  | $200=2 "(50.5 \mathrm{~mm})$ |  |
|  | $300=3 "(76.2 \mathrm{~mm})$ |  |
|  | $400=4{ }^{\prime \prime}(101.6 \mathrm{~mm})$ |  |



Reels (If No Tube Length Specified)

$$
\begin{aligned}
& \mathrm{Q}=25^{\prime}(7.6 \mathrm{~m}) \\
& \mathrm{L}=50^{\prime}(15.2 \mathrm{~m}) \\
& \mathrm{C}=100^{\prime}(30.5 \mathrm{~m}) \\
& \mathrm{T}=200^{\prime}(61.0 \mathrm{~m}) \\
& \mathrm{D}=500^{\prime}(152.4 \mathrm{~m}) \\
& \mathrm{M}=1000^{\prime}(304.8 \mathrm{~m})
\end{aligned}
$$

## PANDUIT ${ }^{\oplus}$ Flexible Polyolefin Dry-Shrink ${ }^{\text {™ }}$ Heat Shrink Tubing

## HSTT Heat Shrink in 4' (1.2m) Pieces and Reels

- General purpose heat shrink tubing for dry locations
- Applications include insulating, protecting, harnessing and identifying wires

| Type | Materials |  |  |
| :---: | :---: | :---: | :---: |
| HSTT | Polyolefin Cross-Linked |  |  |
|  |  | AMS-DTL-23053/5 Class 1 or Class 2 | (Except Clear) |
|  |  | Flame Retardant (Except Clear) | Variety of Colors |

$\ddagger$ Maximum UL temperature range is $125^{\circ} \mathrm{C}$

HSTT in Bulk Packages — Large Reels and 4' (1.2m) Pcs. (3/64" to 3/16" Expanded I.D.)

| Part Number (Black $\sqrt{ }$ ) | Nominal Diameter in. | Minimum <br> Expanded <br> I.D. <br> in. (mm) | Maximum Recovered I.D. in. (mm) | Nominal Recovered Wall Thickness in. (mm) | Length Feet (m) | Bulk Pkg. Qty.* | Bulk Ctn. Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { HSTT05-48-Q } \\ & \text { HSTT05-48-TL } \\ & \text { HSTT05-C } \\ & \text { HSTT05-M } \end{aligned}$ | 3/64 | . 046 (1.2) | . 023 (0.6) | . 016 (0.4) | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \\ 1000(304.8) \end{gathered}$ | $\begin{gathered} 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels 2 Reels |
| HSTT06-48-Q <br> HSTT06-48-TL <br> HSTT06-C <br> HSTT06-M | 1/16 | . 063 (1.6) | . 031 (0.8) | . 017 (0.4) | $4(1.2)$ $4(1.2)$ $100(30.5)$ $1000(304.8)$ | $\begin{gathered} \hline 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels 2 Reels |
| $\begin{aligned} & \hline \text { HSTT09-48-Q } \\ & \text { HSTT09-48-TL } \\ & \text { HSTT09-C } \\ & \text { HSTT09-M } \end{aligned}$ | 3/32 | . 093 (2.4) | . 046 (1.2) | . 020 (0.5) | $4(1.2)$ $4(1.2)$ $100(30.5)$ $1000(304.8)$ | $\begin{gathered} 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \\ 1 \text { Reel } \\ \hline \end{gathered}$ | 10 Reels 2 Reels |
| HSTT12-48-Q <br> HSTT12-48-TL <br> HSTT12-C <br> HSTT12-M | 1/8 | . 125 (3.2) | . 062 (1.6) | . 020 (0.5) | $4(1.2)$ $4(1.2)$ $100(30.5)$ $1000(304.8)$ | $\begin{gathered} \hline 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels 2 Reels |
| HSTT19-48-Q <br> HSTT19-48-TL <br> HSTT19-C <br> HSTT19-M | 3/16 | . 187 (4.8) | . 093 (2.4) | . 020 (0.5) | $\begin{gathered} \hline 4(1.2) \\ 4(1.2) \\ 100(30.5) \\ 1000(304.8) \end{gathered}$ | 25 Pcs. 250 Pcs. 1 Reel 1 Reel | 10 Reels 2 Reels |

## PANDUIT ${ }^{\oplus}$ Flexible Polyolefin Dry-Shrink ${ }^{\text {Tm }}$ Heat Shrink Tubing

HSTT in Bulk Packages (cont.) — Large Reels and 4'(1.2m) Pcs. (1/4" to 3/4" Expanded I.D.)

| Part Number (Black $\sqrt{ }$ ) | Nominal Diameter in. | Minimum <br> Expanded <br> I.D. <br> in. (mm) | Maximum Recovered I.D. in. (mm) | Nominal Recovered Wall Thickness in. (mm) | Length Feet (m) | Bulk Pkg. Qty.* | Bulk Ctn. Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { HSTT25-48-Q } \\ & \text { HSTT25-48-TL } \\ & \text { HSTT25-C } \\ & \text { HSTT25-D } \end{aligned}$ | 1/4 | . 250 (6.4) | . 125 (3.2) | . 025 (0.6) | $4(1.2)$ $4(1.2)$ $100(30.5)$ $500(152.4)$ | $\begin{gathered} \hline 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels 2 Reels |
| $\begin{aligned} & \text { HSTT38-48-Q } \\ & \text { HSTT38-48-TL } \\ & \text { HSTT38-C } \\ & \text { HSTT38-T } \end{aligned}$ | 3/8 | . 375 (9.5) | . 187 (4.8) | . 025 (0.6) | $\begin{gathered} \hline 4(1.2) \\ 4(1.2) \\ 100(30.5) \\ 200(61.0) \\ \hline \end{gathered}$ | 25 Pcs. 250 Pcs. 1 Reel 1 Reel | 10 Reels 2 Reels |
| $\begin{aligned} & \text { HSTT50-48-Q } \\ & \text { HSTT50-48-T } \\ & \text { HSTT50-C } \\ & \text { HSTT50-T } \end{aligned}$ | 1/2 | . 500 (12.7) | . 250 (6.4) | . 025 (0.6) | $\begin{gathered} \hline 4(1.2) \\ 4(1.2) \\ 100(30.5) \\ 200(61.0) \end{gathered}$ | $\begin{gathered} 25 \text { Pcs. } \\ 200 \text { Pcs. } \\ 1 \text { Reel } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels 2 Reels |
| $\begin{aligned} & \text { HSTT75-48-5 } \\ & \text { HSTT75-48-CQ } \\ & \text { HSTT75-C } \\ & \text { HSTT75-T } \end{aligned}$ | 3/4 | . 750 (19.0) | . 375 (9.5) | . 030 (0.8) | $4(1.2)$ $4(1.2)$ $100(30.5)$ $200(61.0)$ | 5 Pcs. 125 Pcs. 1 Reel 1 Reel | 10 Reels 2 Reels |

IP62

(Except Clear)
(Except Clear)

Flexible Polyolefin Dry-Shrink ${ }^{\text {Tw }}$ Heat Shrink Tubing

## HSTT Heat Shrink on 25' (7.6m) Reels

- General purpose heat shrink tubing for dry locations
- Featuring unique self dispensing Q-Box 25' (7.5m)


## HSTT in Standard Packages

| Part Number (Black $\sqrt{ }$ ) | Nominal Diameter in. | Minimum <br> Expanded <br> I.D. <br> in. (mm) | Maximum Recovered I.D. in. (mm) | Nominal Recovered Wall Thickness in. (mm) | Length <br> Feet (m) | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTT05-Q | 3/64 | . 046 (1.2) | 0.23 (0.6) | . 016 (0.4) | 25 (7.6) | 1 Reel | 10 Reels |
| HSTT06-Q | 1/16 | . 063 (1.6) | . 031 (0.8) | . 017 (0.4) | 25 (7.6) | 1 Reel | 10 Reels |
| HSTT09-Q | 3/32 | . 093 (2.4) | . 046 (1.2) | . 020 (0.5) | 25 (7.6) | 1 Reel | 10 Reels |
| HSTT12-Q | 1/8 | . 125 (3.2) | . 062 (1.6) | . 020 (0.5) | 25 (7.6) | 1 Reel | 10 Reels |
| HSTT19-Q | 3/16 | . 187 (4.8) | . 093 (2.4) | . 020 (0.5) | 25 (7.6) | 1 Reel | 10 Reels |
| HSTT25-Q | 1/4 | . 250 (6.4) | . 125 (3.2) | . 025 (0.6) | 25 (7.6) | 1 Reel | 10 Reels |
| HSTT38-Q | 3/8 | . 375 (9.5) | . 187 (4.8) | . 025 (0.6) | 25 (7.6) | 1 Reel | 10 Reels |
| HSTT50-Q | 1/2 | . 500 (12.7) | . 250 (6.4) | . 025 (0.6) | 25 (7.6) | 1 Reel | 10 Reels |
| HSTT75-Q | 3/4 | . 750 (19.0) | . 375 (9.5) | . 030 (0.8) | 25 (7.6) | 1 Reel | 10 Reels |

## HSTT Heat Shrink

Standard Packs of Heat Shrink - 6" (152.4mm) Pieces


Small package holds unused tube and fits easily in a tool box

- General purpose heat shrink tubing for dry locations
- Applications include insulating, protecting, harnessing and identifying wires


HEAT SHRINK

## HSTT in Standard Packages

| Part Number (Black $\sqrt{ }$ ) | Nominal Diameter in. | Minimum <br> Expanded <br> I.D. <br> in. (mm) | Maximum Recovered I.D. in. (mm) | Nominal Recovered Wall Thickness in. (mm) | Length in. (mm) | Std. Pkg. Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTT06-Y | 1/16 | . 063 (1.6) | . 031 (0.8) | . 017 (0.4) | 6 (152.4) | 26 pcs. | 10 Pkgs. |
| HSTT09-Y | 3/32 | . 093 (2.4) | . 046 (1.2) | . 020 (0.5) | 6 (152.4) | 24 pcs. | 10 Pkgs. |
| HSTT12-Y | 1/8 | . 125 (3.2) | . 062 (1.6) | . 020 (0.5) | 6 (152.4) | 20 pcs . | 10 Pkgs. |
| HSTT19-Y | 3/16 | . 187 (4.8) | . 093 (2.4) | . 020 (0.5) | 6 (152.4) | 18 pcs. | 10 Pkgs. |
| HSTT25-Y | 1/4 | . 250 (6.4) | . 125 (3.2) | . 025 (0.6) | 6 (152.4) | 14 pcs. | 10 Pkgs. |
| HSTT38-Y | 3/8 | . 375 (9.5) | . 187 (4.8) | . 025 (0.6) | 6 (152.4) | 12 pcs . | 10 Pkgs. |
| HSTT50-Y | 1/2 | . 500 (12.7) | . 250 (6.4) | . 025 (0.6) | 6 (152.4) | 10 pcs. | 10 Pkgs. |
| HSTT75-Y | 3/4 | . 750 (19.0) | . 375 (9.5) | . 030 (0.8) | 6 (152.4) | 8 pcs. | 10 Pkgs. |
| HSTT100-Y | 1 | 1.00 (25.4) | . 500 (12.7) | . 035 (0.9) | 6 (152.4) | 6 pcs. | 10 Pkgs. |

Flexible Polyolefin Dry-Shrink ${ }^{\text {TM }}$ Heat Shrink Tubing

## Standard Packs of Heat Shrink 6" (152.4mm) Pieces

Small package holds unused tube and fits easily in a tool box

- Assorted colors and diameters available
|P62

HEATSHRINK


HSTT - Combination: Black and Colors - Single Diameter

| Part Number | Nominal <br> Diameter <br> in. | Minimum <br> Expanded <br> I.D. <br> in. (mm) | Maximum <br> Recovered <br> I.D. <br> in. (mm) | Black <br> No. Pcs. | Each <br> Color No. <br> Pcs. | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTT06-YK1 | $1 / 16$ | $.063(1.6)$ | $.031(0.8)$ | 8 | 3 | 26 pcs. | 10 Pkgs. |
| HSTT09-YK1 | $3 / 32$ | $.093(2.4)$ | $.046(1.2)$ | 6 | 3 | 24 pcs. | 10 Pkgs. |
| HSTT12-YK1 | $1 / 8$ | $.125(3.2)$ | $.062(1.6)$ | 2 | 3 | 20 pcs. | 10 Pkgs. |
| HSTT19-YK1 | $3 / 16$ | $.187(4.8)$ | $.093(2.4)$ | 6 | 2 | 18 pcs. | 10 Pkgs. |
| HSTT25-YK1 | $1 / 4$ | $.250(6.4)$ | $.125(3.2)$ | 2 | 2 | 14 pcs. | 10 Pkgs. |
| HSTT38-YK1 | $3 / 8$ | $.375(9.5)$ | $.187(4.8)$ | 6 | 1 | 12 pcs. | 10 Pkgs. |
| HSTT50-YK1 | $1 / 2$ | $.500(12.7)$ | $.250(6.4)$ | 4 | 1 | 10 pcs. | 10 Pkgs. |
| HSTT75-YK1 | $3 / 4$ | $.750(19.0)$ | $.375(9.5)$ | 2 | 1 | 8 pcs. | 10 Pkgs. |
| HSTT100-YK1 | 1 | $1.00(25.4)$ | $.500(12.7)$ | 1 | 1 | 7 pcs. | 10 Pkgs. |

NOTE: Colors include clear, red, yellow, green, blue and white. For additional color information, contact PANDUIT ${ }^{\oplus}$ Technical Assistance 866-405-6657.

## HSTT — Black Only — Multiple Diameters

| Part Number | Nominal Diameter | Black Number of Pieces by Diameter | Std. <br> Pkg. Qty.* | Std. Ctn. Qty. |
| :---: | :---: | :---: | :---: | :---: |
| HSTT-YK1 | Various; Smaller Range | $\begin{gathered} \hline \text { (2) pcs. each } \\ 1 / 8^{\prime \prime}, 1 / 166^{\prime \prime}, 3 / 16^{\prime \prime}, \\ 3 / 32 ", 1 / 4^{\prime \prime}, \\ 1 / 2^{\prime \prime}, 3 / 8^{\prime \prime} \end{gathered}$ | 14 pcs. | 10 Pkgs. |
| HSTT-YK2 | Various; Larger Range | $\begin{aligned} & \text { (2) pcs. each } \\ & 3 / 8^{\prime \prime}, 1 / 2^{\prime \prime} \\ & 3 / 4^{\prime \prime}, 1^{\prime \prime} \end{aligned}$ | 8 pcs. | 10 Pkgs. |



## HSTT—Yellow/Green Stripe — Multiple Diameters

| Part Number | Nominal Diameter | Number of Pieces by Diameter | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: |
| HSTT-YK1-45 | Various; Smaller Range | $\begin{gathered} \text { (2) pcs. each } \\ 1 / 8^{\prime \prime}, 3 / 16^{\prime \prime} \text {,' } \\ 1 / 4^{\prime \prime}, 3 / 8^{\prime \prime} \end{gathered}$ | 8 pcs. | 10 Pkgs. |
| HSTT-YK2-45 | Various; Larger Range | $\begin{gathered} \text { (2) pcs. each } \\ 3 / 8^{\prime \prime}, \\ 1 / 2^{\prime \prime}, 3 / 4 " \end{gathered}$ | 6 pcs. | 10 Pkgs. |



HSTTV Heat Shrink in Small Reels and 4' (1.2m) Pieces

- For dry locations
- Highly flame retardant
- Meets UL VW-1 rating


HEATSHRINK

$\ddagger$ Maximum UL temperature range is $125^{\circ} \mathrm{C}$.
HSTTV in Bulk Packages — Small Reels \& 4' (1.2m) Pcs.

| Part Number (Black $\checkmark$ ) | Nominal Diameter in. | $\begin{aligned} & \text { Minimum } \\ & \text { Expanded I.D. } \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ | Maximum Recovered I.D. in. (mm) | Nominal Recovered Wall Thickness in. (mm) | Length Feet (m) | Bulk Pkg. Qty.* | Bulk <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTTV05-48-Q HSTTV05-48-TL HSTTV05-C | 3/64 | . 046 (1.2) | . 023 (0.6) | . 016 (0.4) | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \\ \hline \end{gathered}$ | $\begin{gathered} 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels |
| HSTTV06-48-Q HSTTV06-48-TL HSTTV06-C | 1/16 | . 063 (1.6) | . 031 (0.8) | . 017 (0.4) | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \\ \hline \end{gathered}$ | $\begin{gathered} 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels |
| HSTTV09-48-Q HSTTV09-48-TL HSTTV09-C | 3/32 | . 093 (2.4) | . 046 (1.2) |  | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \\ \hline \end{gathered}$ | $\begin{gathered} 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels |
| HSTTV12-48-Q HSTTV12-48-TL HSTTV12-C | 1/8 | . 125 (3.2) | . 062 (1.6) | . 020 (0.5) | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \end{gathered}$ | $\begin{gathered} 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels |
| HSTTV19-48-Q HSTTV19-48-TL HSTTV19-C | 3/16 | . 187 (4.8) | . 093 (2.4) |  | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \end{array}$ | 10 Reels |
| HSTTV25-48-Q HSTTV25-48-TL HSTTV25-C | 1/4 | . 250 (6.4) | . 125 (3.2) | . 025 (0.6) | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \end{gathered}$ | $\begin{gathered} 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels |
| HSTTV38-48-Q HSTTV38-48-TL HSTTV38-C | 3/8 | . 375 (9.5) | . 187 (4.8) | . 025 (0.6) | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \end{gathered}$ | $\begin{array}{\|c} \hline 25 \text { Pcs. } \\ 250 \text { Pcs. } \\ 1 \text { Reel } \end{array}$ |  |
| HSTTV50-48-Q HSTTV50-48-T HSTTV50-C | 1/2 | . 500 (12.7) | . 250 (6.4) | . 025 (0.6) | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \end{gathered}$ | $\begin{array}{\|c} \hline 25 \text { Pcs. } \\ 200 \text { Pcs. } \\ 1 \text { Reel } \end{array}$ | 10 Reels |
| HSTTV75-48-5 HSTTV75-48-CQ HSTTV75-C | 3/4 | . 750 (19.0) | . 375 (9.5) | . 030 (0.8) | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \end{gathered}$ | $\begin{gathered} 5 \text { Pcs. } \\ 125 \text { Pcs. } \\ 1 \text { Reel } \end{gathered}$ | 10 Reels |
| $\begin{aligned} & \text { HSTTV100-48-5 } \\ & \text { HSTTV100-48-LQ } \\ & \text { HSTTV100-C } \end{aligned}$ | 1 | 1.00 (25.4) | . 500 (12.7) | . 035 (0.9) | $\begin{gathered} 4(1.2) \\ 4(1.2) \\ 100(30.5) \\ \hline \end{gathered}$ | 1 Pcs. 75 Pcs. 1 Reel | 2 Reels |
| $\begin{aligned} & \text { HSTTV150-48-5 } \\ & \text { HSTTV150-C } \end{aligned}$ | $11 / 2$ | 1.50 (38.1) | . 750 (19.0) | . 040 (1.0) | $\begin{gathered} 4(1.2) \\ 100(30.5) \\ \hline \end{gathered}$ | $\begin{aligned} & 5 \text { Pcs. } \\ & 1 \text { Reel } \\ & \hline \end{aligned}$ | 2 Reels |

Flexible Polyolefin VW-1 Dry-Shrink ${ }^{\text {Tm }}$ Heat Shrink Tubing
HSTTV Heat Shrink in 1000' (304.8m), 500' (152.4m) and 200' (61.0m) Reels
HSTTV in Bulk Packages - Large Reels

| Nominal <br> Diameter <br> in. | Length <br> Feet (m) | Part Number |  |  |  |  | Bulk <br> Pkg. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| $3 / 64$ | $1000(304.8)$ | HSTTV05-M | HSTTV05-M2 | HSTTV05-M4 | HSTTV05-M6 | 1 Reel | 2 Reels |
| $1 / 16$ | $1000(304.8)$ | HSTTV06-M | HSTTV06-M2 | HSTTV06-M4 | HSTTV06-M6 | 1 Reel | 2 Reels |
| $3 / 32$ | $1000(304.8)$ | HSTTV09-M | HSTTV09-M2 | HSTTV09-M4 | HSTTV09-M6 | 1 Reel | 2 Reels |
| $1 / 8$ | $1000(304.8)$ | HSTTV12-M | HSTTV12-M2 | HSTTV12-M4 | HSTTV12-M6 | 1 Reel | 2 Reels |
| $3 / 16$ | $1000(304.8)$ | HSTTV19-M | HSTTV19-M2 | HSTTV19-M4 | HSTTV19-M6 | 1 Reel | 2 Reels |
| $1 / 4$ | $500(152.4)$ | HSTTV25-D | HSTTV25-D2 | HSTTV25-D4 | HSTTV25-D6 | 1 Reel | 2 Reels |
| $3 / 8$ | $200(61.0)$ | HSTTV38-T | HSTTV38-T2 | HSTTV38-T4 | HSTTV38-T6 | 1 Reel | 2 Reels |
| $1 / 2$ | $200(61.0)$ | HSTTV50-T | HSTTV50-T2 | HSTTV50-T4 | HSTTV50-T6 | 1 Reel | 2 Reels |
| $3 / 4$ | $200(61.0)$ | HSTTV75-T | HSTTV75-T2 | HSTTV75-T4 | HSTTV75-T6 | 1 Reel | 2 Reels |

* Order in multiples of bulk pkg. qty.


## HSTTV Heat Shrink in

25' (7.5m) Reels

## P62

HSTTV in Standard Packages of 25' (7.5m) Reels — Black Only

| Part Number | Nominal <br> Diameter <br> in. | Minimum <br> Expanded I.D. <br> in. (mm) | Maximum <br> Recovered I.D. <br> in. (mm) | Nominal <br> Recovered Wall <br> Thickness <br> in. (mm) | Length <br> Feet (m) | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTTV05-Q | $3 / 64$ | $.046(1.2)$ | $.023(0.6)$ | $.020(0.5)$ | $25(7.5)$ | 1 Reel | 10 Reels |
| HSTTV06-Q | $1 / 16$ | $.063(1.6)$ | $.031(0.8)$ | $.020(0.5)$ | $25(7.5)$ | 1 Reel | 10 Reels |
| HSTTV09-Q | $3 / 32$ | $.093(2.4)$ | $.046(1.2)$ | $.020(0.5)$ | $25(7.5)$ | 1 Reel | 10 Reels |
| HSTTV12-Q | $1 / 8$ | $.125(3.2)$ | $.062(1.6)$ | $.020(0.5)$ | $25(7.5)$ | 1 Reel | 10 Reels |
| HSTTV19-Q | $3 / 16$ | $.187(4.8)$ | $.093(2.4)$ | $.020(0.5)$ | $25(7.5)$ | 1 Reel | 10 Reels |
| HSTTV25-Q | $1 / 4$ | $.250(6.4)$ | $.125(3.2)$ | $.025(0.6)$ | $25(7.5)$ | 1 Reel | 10 Reels |
| HSTTV38-Q | $3 / 8$ | $.375(9.5)$ | $.187(4.8)$ | $.025(0.6)$ | $25(7.5)$ | 1 Reel | 10 Reels |
| HSTTV50-Q | $1 / 2$ | $.500(12.7)$ | $.250(6.4)$ | $.025(0.6)$ | $25(7.5)$ | 1 Reel | 10 Reels |
| HSTTV75-Q | $3 / 4$ | $.750(19.0)$ | $.375(9.5)$ | $.030(0.8)$ | $25(7.5)$ | 1 Reel | 10 Reels |
| HSTTV100-Q | 1 | $1.00(25.4)$ | $.500(12.7)$ | $.035(0.9)$ | $25(7.5)$ | 1 Reel | 2 Reels |

* Order in multiples of std. pkg. qty.


## Standard Packs of Heat Shrink - 6" (152.4mm) Pieces

IP62
HSTTV - Single Diameter - Black Only

| Part Number | Nominal <br> Diameter <br> in. | Minimum <br> Expanded <br> I.D. <br> in. (mm) | Maximum <br> Recovered <br> I.D. <br> in. (mm) | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: |
| HSTTV05-Y | $3 / 64$ | $.046(1.2)$ | $.023(0.6)$ | 26 pcs. | 10 Pkgs. |
| HSTTV06-Y | $1 / 16$ | $.063(1.6)$ | $.031(0.8)$ | 26 pcs. | 10 Pkgs. |
| HSTTV09-Y | $3 / 32$ | $.093(2.4)$ | $.046(1.2)$ | 24 pcs. | 10 Pkgs. |
| HSTTV12-Y | $1 / 8$ | $.125(3.2)$ | $.062(1.6)$ | 20 pcs. | 10 Pkgs. |
| HSTTV19-Y | $3 / 16$ | $.187(4.8)$ | $.093(2.4)$ | 18 pcs. | 10 Pkgs. |
| HSTTV25-Y | $1 / 4$ | $.250(6.4)$ | $.125(3.2)$ | 14 pcs. | 10 Pkgs. |
| HSTTV38-Y | $3 / 8$ | $.375(9.5)$ | $.187(4.8)$ | 12 pcs. | 10 Pkgs. |
| HSTTV50-Y | $1 / 2$ | $.500(12.7)$ | $.250(6.4)$ | 10 pcs. | 10 Pkgs. |
| HSTTV75-Y | $3 / 4$ | $.750(19.0)$ | $.375(9.5)$ | 8 pcs. | 10 Pkgs. |
| HSTTV100-Y | 1 | $1.00(25.4)$ | $.500(12.7)$ | 6 pcs. | 10 Pkgs. |

* Order in multiples of std. pkg. qty.

PVC Dry-Shrink ${ }^{\text {Tw }}$ Heat Shrink Tubing

## HSTTP Heat Shrink

- For dry locations
- Flexible, highly flame retardant tubing
- Good resistance to most fuels and oils
- Good cut through and solder resistance

IP62

- Material is UV Resistant

| Type | Materials |  |
| :---: | :---: | :---: |
| HSTTP | $\begin{array}{ll} \hline \text { Q } & \begin{array}{l} \text { Polyvinyl Chloride } \\ \text { Cross-Linked } \end{array} \end{array}$ |  |
|  | $\begin{aligned} & \left.-4^{\circ} \mathrm{F} \text { to } 221^{\circ}{ }^{\circ} \mathrm{C}\right) \\ & \left(-20^{\circ} \mathrm{C} \text { to } 105^{\circ} \mathrm{C}\right) \end{aligned}$ | - S ${ }^{\text {a }}$ |
|  |  | Highly Flame Retardant VW -1 |



## HSTTP in Standard Packages - Reels - Black Only

| Part Number | Nominal Diameter in. | $\begin{aligned} & \text { Minimum } \\ & \text { Expanded I.D. } \\ & \text { in. (mm) } \end{aligned}$ | Maximum Recovered I.D. in. in. (mm) | Nominal Recovered Wall Thickness in. (mm) | Length Feet (m) | Std. <br> Pkg. <br> Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTTP05-Q HSTTP05-C HSTTP05-M | 3/64 | . 046 (1.2) | . 023 (0.6) | . 020 (0.5) | $\begin{gathered} 25(7.5) \\ 100(30.5) \\ 1000(304.8) \end{gathered}$ | $\begin{aligned} & \hline 1 \text { Reel } \\ & 1 \text { Reel } \\ & 1 \text { Reel } \end{aligned}$ | 10 Reels 2 Reels 2 Reels |
| HSTTP06-Q HSTTP06-C HSTTP06-M | 1/16 | . 063 (1.6) | . 031 (0.8) | . 020 (0.5) | $\begin{gathered} 25(7.5) \\ 100(30.5) \\ 1000(304.8) \end{gathered}$ | $\begin{aligned} & \hline \text { 1 Reel } \\ & 1 \text { Reel } \\ & 1 \text { Reel } \end{aligned}$ | 10 Reels 2 Reels 2 Reels |
| HSTTP09-Q HSTTP09-C HSTTP09-M | 3/32 | . 093 (2.4) | . 046 (1.2) | . 025 (0.6) | $\begin{gathered} 25(7.5) \\ 100(30.5) \\ 1000(304.8) \end{gathered}$ | $\begin{aligned} & \text { 1 Reel } \\ & 1 \text { Reel } \\ & 1 \text { Reel } \end{aligned}$ | 10 Reels 2 Reels 2 Reels |
| HSTTP12-Q HSTTP12-C HSTTP12-M | 1/8 | . 125 (3.2) | . 062 (1.6) | . 025 (0.6) | $\begin{gathered} 25(7.5) \\ 100(30.5) \\ 1000(304.8) \end{gathered}$ | $\begin{aligned} & \hline \text { 1 Reel } \\ & 1 \text { Reel } \\ & 1 \text { Reel } \end{aligned}$ | 10 Reels 2 Reels 2 Reels |
| HSTTP19-Q HSTTP19-C HSTTP19-M | 3/16 | . 187 (4.8) | . 093 (2.4) | . 025 (0.6) | $\begin{gathered} 25(7.5) \\ 100(30.5) \\ 1000(304.8) \end{gathered}$ | $\begin{aligned} & \hline \text { 1 Reel } \\ & 1 \text { Reel } \\ & 1 \text { Reel } \end{aligned}$ | 10 Reels 2 Reels 2 Reels |
| HSTTP25-Q HSTTP25-C HSTTP25-D | 1/4 | . 250 (6.4) | . 125 (3.2) | . 025 (0.6) | $\begin{gathered} 25(7.5) \\ 100(30.5) \\ 500(152.4) \end{gathered}$ | $\begin{aligned} & \hline \text { 1 Reel } \\ & 1 \text { Reel } \\ & 1 \text { Reel } \end{aligned}$ | 10 Reels 2 Reels 2 Reels |
| HSTTP38-Q HSTTP38-C HSTTP38-T | 3/8 | . 375 (9.5) | . 187 (4.8) | . 030 (0.8) | $\begin{gathered} 25(7.5) \\ 100(30.5) \\ 200(61.0) \end{gathered}$ | $\begin{aligned} & \hline \text { 1 Reel } \\ & 1 \text { Reel } \\ & 1 \text { Reel } \end{aligned}$ | 10 Reels 2 Reels 2 Reels |
| HSTTP50-Q HSTTP50-C | 1/2 | . 500 (12.7) | . 250 (6.4) | . 030 (0.8) | $\begin{gathered} 25(7.5) \\ 100(30.5) \end{gathered}$ | 1 Reel <br> 1 Reel | 10 Reels 2 Reels |
| HSTTP75-Q HSTTP75-C | 3/4 | . 750 (19.0) | . 375 (9.5) | . 035 (0.9) | $\begin{gathered} 25(7.5) \\ 100(30.5)) \end{gathered}$ | 1 Reel 1 Reel | 10 Reels 2 Reels |
| $\begin{aligned} & \text { HSTTP100-Q } \\ & \text { HSTTP100-C } \end{aligned}$ | 1 | 1.00 (25.4) | . 500 (12.7) | . 040 (1.0) | $\begin{gathered} 25(7.5) \\ 100(30.5) \end{gathered}$ | $\begin{aligned} & 1 \text { Reel } \\ & 1 \text { Reel } \end{aligned}$ | 2 Reels <br> 2 Reels |
| HSTTP150-Q HSTTP150-C | $11 / 2$ | 1.50 (38.1) | . 750 (19.0) | . 045 (1.1) | $\begin{gathered} 25(7.5) \\ 100(30.5) \end{gathered}$ | 1 Reel 1 Reel | 2 Reels <br> 2 Reels |
| HSTTP200-Q | 2 | 2.00 (50.8) | 1.00 (25.4) | . 050 (1.3) | 25 (7.5) | 1 Reel | 2 Reels |

## HSTTN Heat Shrink

- For dry locations
- Highly flexible tubing
- Offers excellent chemical resistance, especially to fuels and oils

P62

- Highly flame retardant

| Type | Materials |  |
| :---: | :---: | :---: |
| HSTTN | Q0,80 $\begin{aligned} & \text { Elastomer Neoprene } \\ & \text { Cross-Linked }\end{aligned}$ |  |
|  | $-94^{\circ} \mathrm{F}$ to $250^{\circ} \mathrm{F}$ $\left(-70^{\circ} \mathrm{C}\right.$ to $\left.121^{\circ} \mathrm{C}\right)$ | AMS-DTL-23053/1 Class 2 Class 2 |
|  |  | Highly Flame Retardant |



HSTTN in Standard Packages - 25' (7.5m) and 100' (30.5m) Reels — Black Only

|  | Nominal <br> Diameter <br> in. | Minimum <br> Expanded I.D. <br> in. (mm) | Maximum <br> Recovered I.D. <br> in. (mm) | Nominal <br> Recovered <br> Warl <br> Thickness <br> in. (mm) | Length <br> Feet (m) | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTTN25-C | $1 / 4$ | $.250(6.4)$ | $.143(3.6)$ | $.035(0.9)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN38-C | $3 / 8$ | $.375(9.5)$ | $.211(5.4)$ | $.040(1.0)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN50-C | $1 / 2$ | $.500(12.7)$ | $.286(7.3)$ | $.048(1.2)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN63-C | $5 / 8$ | $.625(15.9)$ | $.357(9.1)$ | $.052(1.3)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN75-C | $3 / 4$ | $.750(19.0)$ | $.428(10.9)$ | $.057(1.5)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN88-C | $7 / 8$ | $.875(22.2)$ | $.500(12.7)$ | $.065(1.7)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN100-C | 1 | $1.00(25.4)$ | $.570(14.5)$ | $.070(1.8)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN125-C | $11 / 4$ | $1.25(31.8)$ | $.714(18.1)$ | $.087(2.2)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN150-C | $11 / 2$ | $1.50(38.1)$ | $.857(21.8)$ | $.095(2.4)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN175-C | $13 / 4$ | $1.75(44.5)$ | $1.00(25.4)$ | $.107(2.7)$ | $100(30.5)$ | 1 Reel | 2 Reels |
| HSTTN200-Q | 2 | $2.00(50.8)$ | $1.140(29.0)$ | $.110(2.8)$ | $25(7.5)$ | 1 Reel | 2 Reels |
| HSTTN300-Q | 3 | $3.00(76.2)$ | $1.710(43.4)$ | $.125(3.8)$ | $25(7.5)$ | 1 Reel | 2 Reels |

## PANDUIT ${ }^{\oplus}$ TFE TEFLON $\ddagger$ Dry-Shrink ${ }^{\text {mm }}$ Heat Shrink Tubing

## HSTTT (TFE) <br> Heat Shrink <br> DHRN <br> Shink.

- For dry locations
- Semi-rigid, highly heat resistant
- Offers the widest temperature range of any plastic material
- Color is milky clear

NOTE: Special instructions on page 158.


## 2:1 Shrink Ratio (Class 3) - HSTTT in Standard Packages - 4' (1.2m) Pcs.

| Part Number | Nominal Diameter | $\begin{aligned} & \text { Minimum } \\ & \text { Expanded I.D. } \\ & \text { in. (mm) } \end{aligned}$ | $\begin{aligned} & \text { Maximum } \\ & \text { Recovered I.D. } \\ & \text { in. (mm) } \end{aligned}$ | Nominal Recovered Wall Thickness in. (mm) | Length Feet (m) | Std. Pkg. Qty.* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTTT03-48-Q | 30 AWG | . 034 (0.9) | . 015 (0.4) | . 009 (0.2) | 4 (1.2) | 25 Pcs. |
| HSTTT04-48-Q | 28 AWG | . 038 (1.0) | . 018 (0.5) | . 009 (0.2) | 4 (1.2) | 25 Pcs. |
| HSTTT046-48-Q | 26 AWG | . 046 (1.2) | . 022 (0.5) | . 010 (0.3) | 4 (1.2) | 25 Pcs. |
| HSTTT05-48-Q | 24 AWG | . 050 (1.3) | . 027 (0.7) | . 010 (0.3) | 4 (1.2) | 25 Pcs. |
| HSTTT055-48-Q | 22 AWG | . 055 (1.4) | . 032 (0.8) | . 012 (0.3) | 4 (1.2) | 25 Pcs. |
| HSTTT06-48-Q | 20 AWG | . 060 (1.5) | . 039 (1.0) | . 012 (0.3) | 4 (1.2) | 25 Pcs. |
| HSTTT08-48-Q | 18 AWG | . 076 (1.9) | . 049 (1.2) | . 012 (0.3) | 4 (1.2) | 25 Pcs. |
| HSTTT09-48-Q | 16 AWG | . 093 (2.3) | . 061 (1.6) | . 012 (0.3) | 4 (1.2) | 25 Pcs. |
| HSTTT12-48-Q | 14 AWG | . 120 (3.0) | . 072 (1.8) | . 012 (0.3) | 4 (1.2) | 25 Pcs. |
| HSTTT15-48-Q | 12 AWG | . 150 (3.8) | . 089 (2.3) | . 012 (0.3) | 4 (1.2) | 25 Pcs. |
| HSTTT19-48-Q | 10 AWG | . 191 (4.9) | . 112 (2.8) | . 012 (0.3) | 4 (1.2) | 25 Pcs. |
| HSTTT24-48-Q | 8 AWG | . 240 (6.0) | . 141 (3.6) | . 015 (0.4) | 4 (1.2) | 25 Pcs. |
| HSTTT30-48-Q | 6 AWG | . 302 (7.7) | . 178 (4.5) | . 015 (0.4) | 4 (1.2) | 25 Pcs. |
| HSTTT37-48-Q | 4 AWG | . 370 (9.4) | . 224 (5.7) | . 015 (0.4) | 4 (1.2) | 25 Pcs. |
| HSTTT43-48-Q | 2 AWG | . 430 (10.9) | . 278 (7.0) | . 015 (0.4) | 4 (1.2) | 25 Pcs. |
| HSTTT47-48-Q | 0 AWG | . 470 (11.9) | . 347 (8.8) | . 015 (0.4) | 4 (1.2) | 25 Pcs. |
| HSTTT56-48-5 | 9/16 | . 560 (14.2) | . 399 (10.1) | . 015 (0.4) | 4 (1.2) | 5 Pcs. |
| HSTTT66-48-5 | 5/8 | . 655 (16.6) | . 462 (11.7) | . 018 (0.5) | 4 (1.2) | 5 Pcs. |
| HSTTT75-48-5 | 3/4 | . 750 (19.0) | . 524 (13.3) | . 018 (0.5) | 4 (1.2) | 5 Pcs. |
| HSTTT93-48-5 | 15/16 | . 930 (23.6) | . 655 (16.6) | . 020 (0.5) | 4 (1.2) | 5 Pcs. |
| HSTTT112-48-5 | $11 / 8$ | 1.125 (28.6) | . 786 (20.0) | . 025 (0.6) | 4 (1.2) | 5 Pcs. |
| HSTTT131-48-2 | $15 / 16$ | 1.310 (33.3) | . 911 (23.1) | . 030 (0.8) | 4 (1.2) | 2 Pcs. |
| HSTTT150-48-2 | $11 / 2$ | 1.500 (38.1) | 1.036 (26.3) | . 030 (0.8) | 4 (1.2) | 2 Pcs. |

## HSTTK KYNAR■ Heat Shrink

- For dry locations
- Semi-rigid, highly heat resistant
- Offers excellent chemical and abrasion resistance
- Use in high temperature or solvent rich environment
- Color is milky clear


## DAR SHRINK.

HEAT SHRINK



HSTTK in Standard Packages - 4' (1.2m) Pieces

| Part Number | Nominal <br> Diameter <br> in. | Minimum <br> Expanded I.D. <br> in. (mm) | Maximum <br> Recovered I.D. <br> in. (mm) | Nominal <br> Recovered <br> in. (mm) | Length <br> Feet (m) | Std. <br> Pkg. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTTK05-48-Q | $3 / 64$ | $.046(1.2)$ | $.023(0.6)$ | $.010(0.3)$ | $4(1.2)$ | 25 Pcs. |
| HSTTK06-48-Q | $1 / 16$ | $.063(1.6)$ | $.031(0.8)$ | $.010(0.3)$ | $4(1.2)$ | 25 Pcs. |
| HSTTK09-48-Q | $3 / 32$ | $.093(2.4)$ | $.046(1.2)$ | $.010(0.3)$ | $4(1.2)$ | 25 Pcs. |
| HSTTK12-48-Q | $1 / 8$ | $.125(3.2)$ | $.062(1.6)$ | $.010(0.3)$ | $4(1.2)$ | 25 Pcs. |
| HSTTK19-48-Q | $3 / 16$ | $.187(4.8)$ | $.093(2.4)$ | $.010(0.3)$ | $4(1.2)$ | 25 Pcs. |
| HSTTK25-48-Q | $1 / 4$ | $.250(6.4)$ | $.125(3.2)$ | $.010(0.3)$ | $4(1.2)$ | 25 Pcs. |
| HSTTK38-48-Q | $3 / 8$ | $.375(9.5)$ | $.187(4.8)$ | $.012(0.3)$ | $4(1.2)$ | 25 Pcs. |
| HSTTK50-48-5 | $1 / 2$ | $.500(12.7)$ | $.250(6.4)$ | $.012(0.3)$ | $4(1.2)$ | 5 Pcs. |
| HSTTK75-48-5 | $3 / 4$ | $.750(19.0)$ | $.375(9.5)$ | $.017(0.4)$ | $4(1.2)$ | 5 Pcs. |
| HSTTK100-48-5 | 1 | $1.00(25.4)$ | $.500(12.7)$ | $.019(0.5)$ | $4(1.2)$ | 5 Pcs. |

## HSTTVA Heat Shrink

- For damp locations
- Flexible tubing with an adhesive inner wall which seals and protects components from moisture and corrosion

| Type | Materials |  |
| :---: | :---: | :---: |
| HSTTVA | Polyolefin Cross-Linked with Adhesive |  |
|  | -670 | AMS-DTL-23053/4 Class 2 |
|  |  |  |



HSTTVA in Standard Packages - 4' (1.2m) Pieces — Black Only

| Part Number | Nominal <br> Diameter <br> in. | Minimum <br> Expanded I.D. <br> in. (mm) | Maximum <br> Recovered I.D. <br> in. $(\mathbf{m m})$ | Nominal <br> Recovered Wall <br> Thickness <br> in. (mm) | Length <br> Feet (m) | Std. <br> Pkg. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTTVA12-48-Q | $1 / 8$ | $.125(3.2)$ | $.062(1.6)$ | $.020(0.5)$ | $4(1.2)$ | 25 Pcs. |
| HSTTVA19-48-Q | $3 / 16$ | $.187(4.8)$ | $.093(2.4)$ | $.022(0.6)$ | $4(1.2)$ | 25 Pcs. |
| HSTTVA25-48-Q | $1 / 4$ | $.250(6.4)$ | $.125(3.2)$ | $.030(0.8)$ | $4(1.2)$ | 25 Pcs. |
| HSTTVA38-48-Q | $3 / 8$ | $.375(9.5)$ | $.187(4.8)$ | $.031(0.8)$ | $4(1.2)$ | 25 Pcs. |
| HSTTVA50-48-5 | $1 / 2$ | $.500(12.7)$ | $.250(6.4)$ | $.032(0.8)$ | $4(1.2)$ | 5 Pcs. |
| HSTTVA75-48-5 | $3 / 4$ | $.750(19.0)$ | $.375(9.5)$ | $.037(0.9)$ | $4(1.2)$ | 5 Pcs. |
| HSTTVA100-48-5 | 1 | $1.00(25.4)$ | $.500(12.7)$ | $.046(1.2)$ | $4(1.2)$ | 5 Pcs. |
| HSTTVA150-48-5 | $11 / 2$ | $1.50(38.1)$ | $.750(19.0)$ | $.049(1.2)$ | $4(1.2)$ | 5 Pcs. |

## Standard Packs of HSTTVA Heat Shrink - 6" (152.4mm) Pieces

## HSTTVA — Black Only — Single Diameter

| Part Number | Nominal <br> Diameter <br> in. | Minimum <br> Expanded I.D. <br> in. (mm) | Maximum <br> Recovered I.D. <br> in. (mm) | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: |
| HSTTVA12-Y | $1 / 8$ | $.125(3.2)$ | $.062(1.6)$ | 7 pcs. | 10 Pkgs. |
| HSTTVA19-Y | $3 / 16$ | $.187(4.8)$ | $.093(2.4)$ | 7 pcs. | 10 Pkgs. |
| HSTTVA25-Y | $1 / 4$ | $.250(6.4)$ | $.125(3.2)$ | 5 pcs. | 10 Pkgs. |
| HSTTVA38-Y | $3 / 8$ | $.375(9.5)$ | $.187(4.8)$ | 4 pcs. | 10 Pkgs. |
| HSTTVA50-Y | $1 / 2$ | $.500(12.7)$ | $.250(6.4)$ | 4 pcs. | 10 Pkgs. |
| HSTTVA75-Y | $3 / 4$ | $.750(19.0)$ | $.375(9.5)$ | 3 pcs. | 10 Pkgs. |
| HSTTVA100-Y | 1 | $1.00(25.4)$ | $.500(12.7)$ | 2 pcs. | 10 Pkgs. |



## HSTTA Heat Shrink

- For damp locations
- Flexible tubing with adhesive inner wall, seals and protects components from moisture and corrosion
- The 3:1 shrink ratio is a benefit when working with connector to cable transitions


HSTTA in Standard and Bulk Packages - 4' (1.2m) Pieces - Black Only

| Part Number | Nominal <br> Diameter <br> in. | Minimum <br> Expanded I.D. <br> in. (mm) | Maximum <br> Recovered I.D. <br> in. (mm) | Nominal Recovered <br> Wall Thickness <br> in. (mm) | Length <br> Feet (m) | Std. <br> Pkg. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTTA19-48-Q | $3 / 16$ | $.187(4.8)$ | $.062(1.6)$ | $.040(1.0)$ | $4(1.2)$ | 25 Pcs. |
| HSTTA25-48-Q | $1 / 4$ | $.250(6.4)$ | $.080(2.0)$ | $.040(1.0)$ | $4(1.2)$ | 25 Pcs. |
| HSTTA25-48-TL | $1 / 4$ | $.250(6.4)$ | $.080(2.0)$ | $.040(1.0)$ | $4(1.2)$ | 250 Pcs. |
| HSTTA38-48-Q | $3 / 8$ | $.375(9.5)$ | $.120(3.0)$ | $.055(1.4)$ | $4(1.2)$ | 25 Pcs. |
| HSTTA38-48-TL | $3 / 8$ | $.375(9.5)$ | $.120(3.0)$ | $.055(1.4)$ | $4(1.2)$ | 250 Pcs. |
| HSTTA50-48-5 | $1 / 2$ | $.500(12.7)$ | $.160(4.1)$ | $.070(1.8)$ | $4(1.2)$ | 5 Pcs. |
| HSTTA50-48-T | $1 / 2$ | $.500(12.7)$ | $.160(4.1)$ | $.070(1.8)$ | $4(1.2)$ | 200 Pcs. |
| HSTTA75-48-5 | $3 / 4$ | $.750(19.0)$ | $.250(6.4)$ | $.085(2.2)$ | $4(1.2)$ | 5 Pcs. |
| HSTTA75-48-C | $3 / 4$ | $.750(19.0)$ | $.250(6.4)$ | $.085(2.2)$ | $4(1.2)$ | 100 Pcs. |
| HSTTA100-48-5 | 1 | $1.00(25.4)$ | $.320(8.1)$ | $.100(2.5)$ | $4(1.2)$ | 5 Pcs. |
| HSTTA100-48-L | 1 | $1.00(25.4)$ | $.320(8.1)$ | $.100(2.5)$ | $4(1.2)$ | 50 Pcs. |
| HSTTA150-48-5 | $11 / 2$ | $1.50(38.1)$ | $.510(12.9)$ | $.100(2.5)$ | $4(1.2)$ | 5 Pcs. |
| HSTTA150-48-Q | $11 / 2$ | $1.50(38.1)$ | $.510(12.9)$ | $.100(2.5)$ | $4(1.2)$ | 25 Pcs.. |

## Standard Packs of HSTTA Heat Shrink — 6" (152.4mm) Pieces

HSTTA — Black Only — Single Diameter

| Part Number | Nominal <br> Diameter <br> in. | Minimum <br> Expanded I.D. <br> in. (mm) | Maximum <br> Recovered I.D. <br> in. (mm) | Std. <br> Pkg. <br> Qty. | Std. <br> Ctn. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: |
| HSTTA19-Y | $3 / 16$ | $.187(4.8)$ | $.062(1.6)$ | 6 pcs. | 10 Pkgs. |
| HSTTA25-Y | $1 / 4$ | $.250(6.4)$ | $.080(2.0)$ | 4 pcs. | 10 Pkgs. |
| HSTTA38-Y | $3 / 8$ | $.375(9.5)$ | $.120(3.0)$ | 3 pcs. | 10 Pkgs. |
| HSTTA50-Y | $1 / 2$ | $.500(12.7)$ | $.160(4.1)$ | 3 pcs. | 10 Pkgs. |
| HSTTA75-Y | $3 / 4$ | $.750(19.0)$ | $.250(6.4)$ | 2 pcs. | 10 Pkgs. |
| HSTTA100-Y | 1 | $1.00(25.4)$ | $.320(8.1)$ | 2 pcs. | 10 Pkgs. |
| HSTTA150-Y | $11 / 2$ | $1.50(38.1)$ | $.510(12.9)$ | 1 pcs. | 10 Pkgs. |

## HSTTRA Heat Shrink

- For damp locations
- Semi-rigid tubing
- Adhesive inner wall which seals and protects components from moisture and corrosion
- Provides a rugged seal from the elements


| Type | Materials |  |
| :---: | :---: | :---: |
| HSTTRA | Polyolefin Cross-Linked with Adhesive |  |
|  | $\begin{gathered} -67^{\circ} \mathrm{F} \text { to } 230^{\circ} \mathrm{F} \\ \left(-55^{\circ} \mathrm{C} \text { to } 110^{\circ} \mathrm{C}\right) \end{gathered}$ | AMS-DTL-23053/4 Class 1 |
|  |  |  |



HSTTRA in Standard Packages - 4' (1.2m) Pieces — Black Only

| Part Number | Nominal <br> Diameter <br> in. | Minimum <br> Expanded I.D. <br> in. (mm) | Maximum <br> Recovered I.D. <br> in. (mm) | Nominal <br> Recovered Wall <br> Thickness <br> in. (mm) | Length <br> Feet (m) | Std. <br> Pkg. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTTRA12-48-Q | $1 / 8$ | $.125(3.2)$ | $.023(0.6)$ | $.038(1.0)$ | $4(1.2)$ | 25 Pcs. |
| HSTTRA19-48-Q | $3 / 16$ | $.187(4.8)$ | $.060(1.5)$ | $.043(1.1)$ | $4(1.2)$ | 25 Pcs. |
| HSTTRA25-48-Q | $1 / 4$ | $.250(6.4)$ | $.080(2.0)$ | $.047(1.2)$ | $4(1.2)$ | 25 Pcs. |
| HSTTRA38-48-Q | $3 / 8$ | $.375(9.5)$ | $.135(3.4)$ | $.050(1.3)$ | $4(1.2)$ | 25 Pcs. |
| HSTTRA50-48-5 | $1 / 2$ | $.500(12.7)$ | $.195(5.0)$ | $.059(1.5)$ | $4(1.2)$ | 5 Pcs. |
| HSTTRA75-48-5 | $3 / 4$ | $.750(19.0)$ | $.313(8.0)$ | $.065(1.7)$ | $4(1.2)$ | 5 Pcs. |
| HSTTRA100-48-5 | 1 | $1.00(25.4)$ | $.400(10.6)$ | $.075(1.9)$ | $4(1.2)$ | 5 Pcs. |

## PANDUIT ${ }^{\text {® }}$ Thick Wall Polyolefin Wet-Shrink ${ }^{\text {Tm }}$ Heat Shrink Tubing

## HST Thick Wall Heat Shrink

- Suitable for wet locations and direct burial according to UL 486D
- Provides excellent protection above or below ground level

- Adhesive lined inner wall seals and protects against moisture

| Type | Material |  |  |
| :---: | :---: | :---: | :---: |
| HST | Polyolefin Cross-Linkedwith Adhesive |  |  |
|  | $-85^{\circ} \mathrm{F}$ to $230^{\circ} \mathrm{F}$ ( $-65^{\circ} \mathrm{C}$ to $110^{\circ} \mathrm{C}$ ) | AMS-DTL-23053/15 (HST only) | ULS |
|  |  | Flame Retardant |  |



## Thick Wall Heat Shrink Part Number System

|  |  | $4-\underline{3}-\underline{Q}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| Type | Expanded Diameter | Tube Length | Package Quantity | Color |
| HST | $0.4=.40 "(10.2 \mathrm{~mm})$ | $3=3$ " 76.2 mm ) | 1 = 1 Pc . | None = Black |
|  | $0.8=.80 "(20.3 \mathrm{~mm})$ | $6=6 "(152.4 \mathrm{~mm})$ | $2=2 \mathrm{Pcs}$. | 2 = Red |
|  | $1.1=1.10^{\prime \prime}(27.9 \mathrm{~mm})$ | $9=9$ " (228.6mm) | $3=3 \mathrm{Pcs}$. |  |
|  | $1.5=1.50$ " $(38.1 \mathrm{~mm})$ | $12=12$ " (304.8mm) | $5=5 \mathrm{Pcs}$. |  |
|  | $2.0=2.00 "(50.8 \mathrm{~mm})$ | $48=4^{\prime}(1.2 \mathrm{~m})$ | $\mathrm{X}=10 \mathrm{Pcs}$. |  |
|  | $3.0=3.00$ " 76.2 mm ) |  | $\mathrm{Q}=25$ Pcs. |  |

## HST in Standard Packages

| Part Number (Black) | Minimum Expanded I.D. in. (mm) | Maximum Recovered I.D. in. (mm) | Nominal Recovered Wall Thickness in. (mm) | Conductor Size Range AWG/kcmil ( $\mathrm{mm}^{2}$ ) | Minimum Cable O.D. in. (mm) | Maximum Connector O.D. in. (mm) | Tube Length in. (mm) | Std. <br> Pkg. <br> Qty.* | Std. Ctn. Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HST0.4-3-Q $\ddagger$ HST0.4-6-3 HST0.4-6-X $\ddagger$ HST0.4-48-5 $\ddagger$ | . 40 (10.1) | . 15 (3.8) | . 09 (2.3) | $\begin{gathered} \# 12-\# 6 \\ (4-16) \end{gathered}$ | $\begin{aligned} & .170 \\ & (4.3) \end{aligned}$ | $\begin{aligned} & .350 \\ & (8.9) \end{aligned}$ | $\begin{gathered} \hline 3(76.2) \\ 6(152.4) \\ 6(152.4) \\ 4^{\prime}(1.2 M) \end{gathered}$ | $\begin{gathered} 25 \text { Pcs. } \\ 3 \text { Pcs. } \\ 10 \text { Pcs. } \\ 5 \text { Pcs. } \end{gathered}$ | 4 Pkgs. 10 Pkgs. 10 Pkgs. 4 Pkgs. |
| HST0.8-6-3 HST0.8-6-X $\ddagger$ HST0.8-9-X $\ddagger$ HST0.8-12-5 $\ddagger$ HST0.8-48-5 $\ddagger$ | . 80 (20.3) | . 25 (6.4) | . 11 (2.8) | $\begin{aligned} & \text { \#8-\#1/0 } \\ & (10-55) \end{aligned}$ | $\begin{aligned} & .240 \\ & (6.1) \end{aligned}$ | $\begin{gathered} .650 \\ (16.5) \end{gathered}$ | $\begin{gathered} \hline 6 \text { (152.4) } \\ 6(152.4) \\ 9(228.6) \\ 12(304.8) \\ 4^{\prime}(1.2 \mathrm{M}) \end{gathered}$ | $\begin{aligned} & 3 \text { Pcs. } \\ & 10 \text { Pcs. } \\ & 10 \text { Pcs. } \\ & 5 \text { Pcs. } \\ & 5 \text { Pcs. } \end{aligned}$ | 10 Pkgs. 10 Pkgs. 10 Pkgs. 10 Pkgs. 4 Pkgs. |
| HST1.1-6-3 HST1.1-6-X $\ddagger$ HST1.1-9-2 HST1.1-9-X $\ddagger$ HST1.1-12-5 $\ddagger$ HST1.1-48-5 $\ddagger$ | 1.10 (27.9) | . 37 (9.4) | . 12 (3.0) | $\begin{aligned} & \text { \#2-\#4/0 } \\ & (35-120) \end{aligned}$ | $\begin{gathered} .400 \\ (10.1) \end{gathered}$ | $\begin{gathered} .875 \\ (22.2) \end{gathered}$ | $\begin{gathered} \hline 6 \text { (152.4) } \\ 6(152.4) \\ 9(228.6) \\ 9(228.6) \\ 12(304.8) \\ 4^{\prime}(1.2 \mathrm{M}) \end{gathered}$ | $\begin{aligned} & 3 \text { Pcs. } \\ & 10 \text { Pcs. } \\ & 2 \text { Pcs. } \\ & 10 \text { Pcs. } \\ & 5 \text { Pcs. } \\ & 5 \text { Pcs. } \end{aligned}$ | 10 Pkgs. 10 Pkgs. 10 Pkgs. 10 Pkgs. 10 Pkgs. 4 Pkgs. |
| HST1.5-9-X <br> HST1.5-12-1 <br> HST1.5-12-5 <br> HST1.5-48-5 | 1.50 (38.1) | . 50 (12.7) | . 17 (4.3) | $\begin{gathered} \# 3 / 0-400 \mathrm{kcmil} \\ (95-185) \end{gathered}$ | $\begin{gathered} .600 \\ (15.2) \end{gathered}$ | $\begin{aligned} & 1.190 \\ & (30.2) \end{aligned}$ | $\begin{gathered} \hline 9(228.6) \\ 12(304.8) \\ 12(304.8) \\ 4^{\prime}(1.2 \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{gathered} 10 \mathrm{Pcs} . \\ 1 \mathrm{Pc.} . \\ 5 \mathrm{Pcs} . \\ 5 \mathrm{Pcs} . \\ \hline \end{gathered}$ | 10 Pkgs. 10 Pkgs. 10 Pkgs. 4 Pkgs. |
| $\begin{aligned} & \hline \text { HST2.0-9-5 } \\ & \text { HST2.0-12-2 } \\ & \text { HST2.0-48-2 } \end{aligned}$ | 2.00 (50.8) | . 67 (16.9) | . 17 (4.3) | $\begin{aligned} & \text { 250-600 kcmil } \\ & (125-300) \end{aligned}$ | $\begin{gathered} .750 \\ (19.1) \end{gathered}$ | $\begin{aligned} & 1.600 \\ & (40.6) \end{aligned}$ | $\begin{gathered} \hline 9 \text { (228.6) } \\ 12(304.8) \\ 4^{\prime}(1.2 \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{aligned} & 5 \text { Pcs. } \\ & 2 \text { Pcs. } \\ & 2 \text { Pcs. } \end{aligned}$ | 10 Pkgs. 10 Pkgs. 4 Pkgs. |
| $\begin{aligned} & \hline \text { HST3.0-12-2 } \\ & \text { HST3.0-48-2 } \end{aligned}$ | 3.00(76.2) | 1.00 (25.4) | . 17 (4.3) | $\begin{gathered} 600-1250 \mathrm{kcmil} \\ (300-625) \\ \hline \end{gathered}$ | $\begin{gathered} 1.20 \\ (30.5) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline 2.250 \\ & (57.2) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 12(304.8) \\ 4^{\prime}(1.2 \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{aligned} & 2 \text { Pcs. } \\ & 2 \text { Pcs. } \end{aligned}$ | $\begin{aligned} & 10 \text { Pkgs. } \\ & 4 \text { Pkgs. } \end{aligned}$ |

## HSEC Thick Wall End Caps

- For wet locations
- Provides excellent protection for sealing ends of wire or cable
- Adhesive lined inner wall seals and protects against moisture


| Type | Materials |
| :---: | :---: |
| HSEC | Polyolefin Cross-Linked with Adhesive |
|  | $\begin{gathered} -67^{\circ} \mathrm{F} \text { to } 221^{\circ} \mathrm{F} \\ \left(-55^{\circ} \mathrm{C} \text { to } 105^{\circ} \mathrm{C}\right) \end{gathered}$ |
|  | Shrink Ratio: $\boldsymbol{A}$ 3:1 |



Thick Wall End Caps Part Number System


Thick Wall End Caps in Standard Packages - Black Only

| Part Number | Minimum <br> Expanded <br> I.D. <br> in. (mm) | Maximum Recovered I.D. in. (mm) | Nominal Recovered Wall <br> Thickness in. (mm) | Conductor Size | Cap Length in. (mm) | Std. Pkg. Qty.* | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSEC0.5-X | . 47 (11.9) | . 18 (4.6) | . 10 (2.5) | \#8 то \#4 AWG (10 то $25 \mathrm{~mm}^{2}$ ) | 1.38 (35.1) | 10 Pcs. | 10 Pkgs. |
| HSEC0.8-X | . 79 (20.1) | . 30 (7.6) | . 10 (2.5) | \#4 то 3/0 AWG (25 то 95mm²) | 2.13 (54.1) | 10 Pcs. | 10 Pkgs. |
| HSEC1.0-X | 1.02 (25.9) | . 45 (11.4) | . 10 (2.5) | \#2 то 4/0 AWG (35 то 95mm²) | 3.23 (82.0) | 10 Pcs. | 10 Pkgs. |
| HSEC1.5-5 | 1.58 (40.1) | . 68 (17.3) | . 11 (2.8) | 250 то 500 kcmil ( 120 то $240 \mathrm{~mm}^{2}$ ) | 3.86 (98.0) | 5 Pcs. | 10 Pkgs. |
| HSEC2.0-5 | 2.25 (57.2) | . 87 (22.1) | . 15 (3.8) | 600 то 1000 kcmil (300 то $500 \mathrm{~mm}^{2}$ ) | 5.52 (140.2) | 5 Pcs. | 10 Pkgs. |
| HSEC4.0-2 | 4.14 (105.2) | 1.78 (45.2) | . 15 (3.8) | 1500 то 2000 kcmil ( 720 то $1000 \mathrm{~mm}^{2}$ ) | 6.90 (175.3) | 2 Pcs. | 5 Pkgs. |

## PanIUIT ${ }^{\circ}$

## Plastic Kit Boxes

- Provides organized storage for a wide variety of parts in one convenient location
- Informative label eliminates guess work:
- Specifies correct heat shrink usage based on wire range and connector size
- Provides reorder part number information
- Once top is closed, loose pieces remain in their 6 compartments
- Available with non-adhesive or adhesive lined heat shrink tubing for dry and damp locations


| KP-HSTT1 Contents | For Dry Locations |  |
| :---: | :---: | :---: |
| Black Polyolefin Dry-Shrink'm Heat Shrink Tubing (Type HSTT) in 6 " ( 152.4 mm ) Lengths <br> 2:1 Shrink Ratio |  |  |
| $\begin{gathered} 35 \mathrm{EACH} \\ \text { HSTTO9 3/32" }(2.4 \mathrm{~mm}) \text { I.D. } \\ \text { HSTT12 1/8" (3.2mm) I.D. } \end{gathered}$ | $\begin{gathered} 21 \mathrm{EACH} \\ \text { HSTT19 3/16" }(4.8 \mathrm{~mm}) \text { I.D. } \\ \text { HSTT25 1/4" }(6.4 \mathrm{~mm}) \text { I.D. } \end{gathered}$ | $\begin{aligned} & 7 \mathrm{EACH} \\ & \text { HSTT38 3/8" (9.5mm) I.D. } \\ & \text { HSTT50 1/2" (12.7mm) I.D. } \end{aligned}$ |


| KP-HSTT2 Contents | For Dry Locations |  |
| :---: | :---: | :---: |
| Multiple Color Po (Exce | efin Dry-Shrink ${ }^{\text {"" }}$ Heat Sh in 6 " ( 152.4 mm ) Lengths 2:1 Shrink Ratio <br> (Except Clear) | Tubing (Type HSTT) <br> AMS-DTL-23053/5 Class 1 \& 2 |
| $\begin{gathered} 35 \text { EACH } \\ \text { HSTT093/32" }(2.4 \mathrm{~mm}) \text { I.D. } \\ -7 \text { CoLORS } \\ \text { HSTT12 } 1 / 8 \text { " }(3.2 \mathrm{~mm}) \text { I.D. } \\ -7 \text { coLORS } \end{gathered}$ | 21 EACH <br> HSTT19 3/16" (4.8mm) I.D. - 7 COLORS HSTT25 1/4" (6.4mm) I.D. - 7 colors | 7 EACH <br> HSTT38 3/8" (9.5mm) I.D. <br> - 7 colors <br> HSTT50 1/2" (12.7mm) I.D. <br> - 7 colors |

Note: Colors include: Red, Yellow, Green, Blue, White, Clear and Black.


| KP-HSTTA Contents | For Damp Locations |  |
| :---: | :---: | :---: |
| Adhesive Lined Black Pol | olefin Damp-Shrink ${ }^{m \mathrm{~m}}$ Heat in 6 " ( 152.4 mm ) Lengiths 3:1 Shrink Ratio | rink Tubing (Type HSTTA) <br> AMS-DTL-23053/4 <br> Class 3 |
| 14 EACH HSTTA19 $3 / 16^{\prime \prime}(4.8 \mathrm{~mm})$ I.D. 12 EACH HSTTA25 $1 / 4^{\prime \prime}(6.4 \mathrm{~mm})$ I.D. | 10 EACH HSTTA38 $3 / 8^{\prime \prime}(9.5 \mathrm{~mm})$ I.D. 6 EACH HSTTA50 $1 / 2^{\prime \prime}(12.7 \mathrm{~mm})$ I.D. | 3 EACH HSTTA75 $3 / 4^{\prime \prime}(19.0 \mathrm{~mm})$ I.D. 2 EACH HSTTA100 1" $(25.4 \mathrm{~mm})$ I.D. |

Order number of kits required.


HSG Heat tool with stand


Heat Reflector Accessory slips onto heat tools


Heat Concentrator Accessory directs heat to reduce shrink time


DCT — Cutting Tool


Carrying Case

Heat Tools

| Part Number | Listed 826N <br> (Heat Tools (Heat Tools only) only) | Std. Pkg. Qty |
| :---: | :---: | :---: |
| HSG-115V-650 | - High temperature tool - For use on PANDUIT ${ }^{\oplus}$ HSTT, HSTTA, HSTTF, HSTTR, HSTTK, HSTTRA, HST and HSEC <br> - Air intake regulator varies temperature from $650^{\circ} \mathrm{F}$ $\left(344^{\circ} \mathrm{C}\right)$ to $900^{\circ} \mathrm{F}\left(482^{\circ} \mathrm{C}\right) 115$ Volt, 10 AMP <br> - Neoprene jacketed cord with molded strain relief <br> - Adjustable stand included <br> - Replaceable bearings, brushes and heating elements | 1 |

## Accessories

| Part <br> Number |  | Std. <br> Pkg. <br> Qty |
| :--- | :--- | :---: |
| HSG-A1 | - Shrink tube reflector for tubing up to 3/4" inside diameter <br> - Directs heat around the tubing to reduce shrink time | 1 |
| HSG-A2 | - Shrink tube reflector for tubing up to $11 / 2$ inside diameter <br> - Directs heat around the tubing to reduce shrink time | 1 |
| HSG-A3 | - Shrink tube concentrator <br> - Directs heat toward tubing and away from heat <br> sensitive items | 1 |
| HSG-A4 | - Black polyethylene carrying case <br> - Stores heat tool, stand and all three accessories | 1 |
| DCT | - Cutting tool for use with HST Thick Wall Heat Shrink <br> Tubing only | 1 |

Replacement Parts

| Part <br> Number | Description | Std. <br> Pkg. <br> Qty |
| :--- | :--- | :---: |
| HSG-P1 | • Brush/Spring Kit | 1 |
| HSG-P2 | $\cdot$ Switch 20 Amp | 1 |
| HSG-P3 | • Bearing Kit | 1 |
| HSG-P7 | • Heat Element $650^{\circ} \mathrm{F}$ | 1 |

Order number of heat tools, accessories and replacement parts required.

## Heat Shrink Installation Instructions

## General Instructions

Position heat shrink over the object to be covered. Using a heat gun, soft yellow flame torch, infrared heat source or oven, evenly heat the tubing until it has fully recovered and conforms to the object. Use caution not to char or burn the tubing.

## Special Instructions for HSTTT

TFE tubing is the most difficult to shrink due to its high shrink temperature. TFE shrink tubing must be heated to the gel state $621^{\circ} \mathrm{F}\left(327^{\circ} \mathrm{C}\right)$ to completely recover. This can be recognized when the tubing changes from milky white to clear color. It can be shrunk with a heat gun or torch, however, it is very difficult to use these methods since they have a tendency to overheat the tube in one area while other areas remain too cool. The most reliable way to shrink TFE is in an oven. Position the heat shrink over the object to be covered and place it in an oven set at $800^{\circ} \mathrm{F}\left(427^{\circ} \mathrm{C}\right)$ until the tubing turns clear. Once clear, remove assembly from oven to prevent over heating and allow it to cool at room temperature. Do not quench in cold air or water. Large objects, particularly metal tubing or rods, must be preheated to get a uniform shrink.

## Size Selection for Heat Shrink Tubing

Generally, the largest tube that shrinks down tightly onto an object should be chosen. This allows the heat shrink tubing maximum stress relief and this will yield the longest service life.

## Example:

A multi-conductor cable needs to be covered with HSTT Type Dry-SHRINK ${ }^{\text {m }}$ Heat Shrink. The area to be covered has a measured outside diameter of .700" (17.8mm). The two possibilities are HSTT75-48-5 and HSTT100-48-5.

| Part Number | Expanded I.D. <br> in. (mm) | Recovered I.D. <br> in. (mm) |
| :--- | :---: | :---: |
| HSTT75-48-5 | $.750(19.0)$ | $.375(9.5)$ |
| HSTT100-48-5 | $1.00(25.4)$ | $.500(12.7)$ |

The proper choice is HSTT100-48-5 since the tube will recover more than HSTT75-48-5. The HSTT75-48-5 will fit over the .700 " ( 17.8 mm ) outside diameter; however, this is not the proper choice since it is smaller than the HSTT100-48-5. In general, heat shrink should recover at least $10-20 \%$ to reduce stress and yield

## PANDUIT ${ }^{\text {® }}$ Heat Shrink Selection Guide

## Recommended Tubing Size for Common Wire Types Based on Location

## For Insulated Wire, Non-insulated Wire and Insulated Wire With Copper Connectors Instructions for tube selection:

1) Determine Location Type.

LOCATION:
DRY - IP62: A location not normally subject to dampness or wetness. A location classified as dry may be temporarily subject to dampness or wetness, as in the case of a building under construction.
DAMP - IP66: Partially protected locations under canopies, marquees, roofed open porches, and like locations, and interior locations subject to moderate degrees of moisture, such as some basements, some barns and some cold-storage warehouses.
WET - IP68: Installations underground or in concrete slabs or masonry in direct contact with the earth, and locations subject to saturation with water or other liquids, such as vehicle washing areas, and locations exposed to weather and unprotected.
2) Match wire size to location type under required application - insulated wire, non-insulated wire, or insulated wire with copper connectors.
3) Read corresponding part number.
4) Part numbers with "-Y" are packages containing 6" pieces. Part numbers with "-48" are 48 " pieces.
5) Part numbers shown below are for black heat shrink. Consult relevant catalog section for color options.

| Wire Size | Insulated Wire |  |  | Uninsulated Wire |  |  | Insulated Wire with Copper Connector |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dry-Shrink ${ }^{\text {™ }}$ | Damp-Shrink ${ }^{\text {m }}$ | Wet-SHRINK ${ }^{\text {m' }}$ | Dry-SHRINK ${ }^{\text {m' }}$ | DAMP-SHRINK' ${ }^{\text {' }}$ | Wet-Shrink ${ }^{\text {ma }}$ | Dry-Shrink ${ }^{\text {™ }}$ | DAMPShrink | WET-SHRINK ${ }^{\text {m }}$ |
| 24 | HSTT12-Y | HSTTA19-Y | - | - | - | - | HSTT12-Y | - | - |
| 22 | HSTT12-Y | HSTTA19-Y | - | - | - | - | HSTT12-Y | - |  |
| 20 | HSTT12-Y | HSTTA19-Y |  | HSTT06-Y | - | - | HSTT19-Y | HSTTA19-Y |  |
| 18 | HSTT19-Y | HSTTA19-Y |  | HSTT06-Y |  |  | HSTT19-Y | HSTTA19-Y |  |
| 16 | HSTT19-Y | HSTTA25-Y |  | HSTT06-Y |  |  | HSTT19-Y | HSTTA25-Y |  |
| 14 | HSTT19-Y | HSTTA25-Y |  | HSTT12-Y | HSTTA19-Y |  | HSTT19-Y | HSTTA25-Y |  |
| 12 | HSTT25-Y | HSTTA38-Y | HST0.4-48-5 | HSTT12-Y | HSTTA19-Y | - | HSTT25-Y | HSTTA38-Y | HST0.4-48-5 |
| 10 | HSTT25-Y | HSTTA38-Y | HST0.4-48-5 | HSTT19-Y | HSTTA25-Y | - | HSTT25-Y | HSTTA38-Y | HST0.4-48-5 |
| 8 | HSTT38-Y | HSTTA50-Y | HST0.4-48-5 | HSTT25-Y | HSTTA25-Y | - | HSTT38-Y | HSTTA50-Y | HST0.4-48-5 |
| 6 | HSTT50-Y | HSTTA50-Y | HST0.8-48-5 | HSTT25-Y | HSTTA38-Y | HST0.4-48-5 | HSTT50-Y | HSTTA50-Y | HST0.8-48-5 |
| 4 | HSTT50-Y | HSTTA75-Y | HST0.8-48-5 | HSTT38-Y | HSTTA38-Y | HST0.4-48-5 | HSTT50-Y | HSTTA75-Y | HST0.8-48-5 |
| 3 | HSTT50-Y | HSTTA75-Y | HST0.8-48-5 | HSTT38-Y | HSTTA50-Y | HST0.4-48-5 | HSTT50-Y | HSTTA75-Y | HST0.8-48-5 |
| 2 | HSTT75-Y | HSTTA100-Y | HST0.8-48-5 | HSTT50-Y | HSTTA50-Y | HST0.8-48-5 | HSTT75-Y | HSTTA 100-Y | HST0.8-48-5 |
| 1 | HSTT75-Y | HSTTA100-Y | HST0.8-48-5 | HSTT50-Y | HSTTA50-Y | HST0.8-48-5 | HSTT75-Y | HSTTA100-Y | HST1.1-48-5 |
| 1/0 | HSTT75-Y | HSTTA 100-Y | HST1.1-48-5 | HSTT50-Y | HSTTA75-Y | HST0.8-48-5 | HSTT75-Y | HSTTA100-Y | HST1.1-48-5 |
| 2/0 | HSTT100-Y | HSTTA100-Y | HST1.1-48-5 | HSTT50-Y | HSTTA75-Y | HST0.8-48-5 | HSTT100-Y | HSTTA100-Y | HST1.1-48-5 |
| 3/0 | HSTT100-Y | HSTTA150-Y | HST1.1-48-5 | HSTT75-Y | HSTTA100-Y | HST0.8-48-5 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5 |
| 4/0 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5 | HSTT75-Y | HSTTA100-Y | HST1.1-48-5 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5 |
| 250 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5 | HSTT100-Y | HSTTA100-Y | HST1.1-48-5 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5 |
| 300 | HSTT150-48-5 | HSTTA150-Y | HST1.5-48-5 | HSTT100-Y | HSTTA100-Y | HST1.1-48-5 | HSTT150-Y | HSTTA150-Y | HST1.5-48-5 |
| 350 | HSTT150-48-5 | HSTTA150-Y | HST1.5-48-5 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 |
| 400 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 |
| 500 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 |
| 600 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 |
| 700 | HSTT200-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT200-48-5 | - | HST2.0-48-2 |
| 750 | HSTT200-48-5 | HSTTA150-Y | HST3.0-48-2 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT200-48-5 | - | HST3.0-48-2 |
| 800 | HSTT200-48-5 | - | HST3.0-48-2 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT200-48-5 | - | HST3.0-48-2 |
| 900 | HSTT200-48-5 | - | HST3.0-48-2 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT200-48-5 | - | HST3.0-48-2 |
| 1000 | HSTT200-48-5 | - | HST3.0-48-2 | HSTT200-48-5 | HSTTA150-Y | HST2.0-48-2 | HSTT200-48-5 | - | HST3.0-48-2 |
| 1250 | HSTT300-48-2 | - | HST3.0-48-2 | HSTT200-48-5 | HSTTA150-Y | HST2.0-48-2 | - | - | HST3.0-48-2 |
| 1500 | HSTT300-48-2 | - | HST3.0-48-2 | HSTT200-48-5 | - | HST3.0-48-2 | - | - | - |
| 1750 | HSTT300-48-2 | - | HST3.0-48-2 | HSTT200-48-5 | - | HST3.0-48-2 | - | - | - |
| 2000 | HSTT300-48-2 | - | HST3.0-48-2 | HSTT200-48-5 | - | HST3.0-48-2 | - | - | - |

[^7]
## PANDUIT ${ }^{\circledR}$ IP (Ingress Protection) as defined by the International Standard IEC 529

The IEC 529 international standard describes a system for classifying the degrees of protection provided by the enclosures of electrical equipment and is a recognized standard around the world. An independent test laboratory has tested PANDUIT ${ }^{\circledR}$ Heat Shrink Tubing to the IEC 529 standard. The following information exhibits the IP ratings for PANDUIT ${ }^{\circledR}$ Heat Shrink tubing and how each of the IP ratings relates to the USA.


The first characteristic numeral indicates the level of protection against the ingress of solid foreign objects.

The second characteristic numeral indicates the level of protection against the ingress of water.

| 1st Characteristic Numeral |  |  |
| :---: | :---: | :---: |
| PANDUIT ${ }^{\circledR}$ Heat Shrink | Ingress Protection (IP) | Meaning for Protection |
|  | Against ingress of solid object |  |
|  | 0 | Non-Protected |
|  | 1 | 50mm diameter |
|  | 2 | 12.5 mm diameter |
|  | 3 | 2.5 mm diameter |
|  | 4 | 1.0mm diameter |
|  | 5 | Dust Protected |
| $\begin{aligned} & \hline \text { DRY-SHRINK }{ }^{m \prime} \text {, } \\ & \text { DAMP-SHRINK }{ }^{\text {mow }} \text { and } \end{aligned}$ $\text { WET-SHRINK }{ }^{\text {m }}$ | 6 | Dust Tight |


| 2nd Characteristic Numeral |  |  |
| :---: | :---: | :---: |
| PANDUIT ${ }^{\circledR}$ Heat Shrink | Ingress Protection <br> (IP) | Meaning for Protection |
|  | Against ingress of water |  |
|  | 0 | Non-Protected |
|  | 1 | Vertically Dripping |
| Dry-Shrink ${ }^{\text {m" }}$ Heat Shrink Tubing | 2 | Dripping ( $15^{\circ}$ tilted) |
|  | 3 | Spraying |
|  | 4 | Splashing |
|  | 5 | Jetting |
| DAMP-SHRINK ${ }^{\text {m }}$ Heat Shrink Tubing | 6 | Powerful Jetting |
|  | 7 | Temporary Immersion |
| WET-SHRINK ${ }^{\text {m] }}$ Heat Shrink Tubing | 8 | Continuous Immersion |


|  | Intended Application Location: | Ingress Protection Rating: | Description: |
| :---: | :---: | :---: | :---: |
|  | DRY Locations not normally subject to moisture | \|P62 | Protected against the ingress of dust but not protected against the ingress of water. |
|  | DAMP Locations subjected to moderate degrees of water and moisture | $1966$ | Protected against the ingress of dust and protected against the ingress of a power jet of water. |
|  | WET Locations are defined as underground burial or immersion in water | $1968$ | Protected against the ingress of dust and protected against the ingress of water to a depth of 10 meters. |

Does not include PANDUIT ${ }^{\oplus}$ Dry-SHRINK ${ }^{\text {™ }}$ HSTTT (TEFLON -TFE)

Dry-Shrink ${ }^{\text {Tm }}$ Heat Shrink has been tested in accordance with EN 60529 paragraph 13.4 thereby providing PANDUIT ${ }^{\circledR}$ Dry-Shrink ${ }^{\text {™ }}$ Heat Shrink with an ingress protection rating of IP62.

DAMP-ShrinK ${ }^{\text {TM }}$ Heat Shrink has been tested in accordance with EN 60529 paragraph 13.4 and with paragraph 14.2.6 thereby providing PANDUIT ${ }^{\circledR}$ DAMP-SHRINK ${ }^{\text {TM }}$ with an ingress protection rating of IP66.

Wet-Shrink ${ }^{\text {TM }}$ Heat Shrink has been tested in accordance with EN 60529 paragraph 13.4, paragraph 14.2.6 and with paragraph 14.2.7 thereby providing WET-SHRINK ${ }^{T M}$ Heat Shrink with an ingress protection rating of IP68. PANDUIT ${ }^{\oplus}$ WET-Shrink ${ }^{\text {™ }}$ Heat Shrink has passed EN 60529 paragraph 14.2.7 at depth of 10 meters.

## Technical Data

## General Information

| Product Type | Typical Applications | Specific Gravity | Flammability | Water Absorption | Dielectric Strength | Page No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSTT | Economical and easy way to insulate, protect, harness and identify electrical and electronic components in a wide variety of applications. Black is U.V. Resistant. | $\begin{gathered} \text { Class 1, } \\ 1.35 \\ \text { Class 2, } \\ 1.0 \\ \text { ASTM } \\ \text { D792 } \end{gathered}$ | Class 1 Self Extinguishing Class 2 N/A ASTM D2671 Procedure B | $\begin{gathered} \hline 0.5 \% \text { MAX. } \\ \text { ASTM } \\ \text { D570 } \end{gathered}$ | 500 V/MIL. (19.7 Kv/mm) min. ASTM D2671 | $\begin{aligned} & 141- \\ & 144 \end{aligned}$ |
| HSTTV | Use where UL recognition with VW-1 rating is required. Use where the wire component cannot tolerate higher shrink temperatures, reduces application time to insulate, protect, identify, etc. Black is U.V. Resistant. |  | Self <br> Extinguishing ASTM D2671 Procedure C | $\begin{gathered} \hline \text { 0.5\% MAX. } \\ \text { ASTM } \\ \text { D570 } \end{gathered}$ | 500 V/MIL. <br> (19.7 Kv/mm) min. ASTM D2671 | $\begin{gathered} \hline 145- \\ 146 \end{gathered}$ |
| HSTTVA | Seals and protects components from moisture and corrosion. Use where a flexible tubing is needed. Suitable for damp locations. | N/A | Self <br> Extinguishing ASTM D2671 Procedure B | $\begin{gathered} \text { 0.5\% MAX. } \\ \text { ASTM } \\ \text { D570 } \end{gathered}$ | 500 V/MIL. (19.7 Kv/mm) min. ASTM D2671 | 151 |
| HSTTRA | Environmentally seals and protects components forming a rugged and heavy duty covering. The $2.5: 1$ shrink ratio is a benefit when working with connector to cable transitions. Suitable for damp locations. | N/A | N/A | $\begin{gathered} \hline \text { 0.5\% MAX. } \\ \text { ASTM } \\ \text { D570 } \end{gathered}$ | $500 \mathrm{~V} / \mathrm{MIL}$. <br> (19.7 Kv/mm) min. <br> ASTM D2671 | 153 |
| HSTTA | Environmentally seals and protects components. The $3: 1$ shrink ratio is a benefit when working with connector to cable transitions. Suitable for damp locations. | N/A | Self Extinguishing ASTM D2671 Procedure B | $\begin{gathered} \hline 1.0 \% \text { MAX. } \\ \text { ASTM } \\ \text { D570 } \end{gathered}$ | 300 V/MIL. <br> (11.8 Kv/mm) min. ASTM D2671 | 152 |
| HST | Seals and protects electrical connections and splices above or below ground, 3:1 shrink ratio. Suitable for outdoor and wet locations. | 1.2 MAX. | Self <br> Extinguishing ASTM D2671 Procedure C | $\begin{gathered} \hline \text { 0.5\% MAX. } \\ \text { ASTM } \\ \text { D570 } \end{gathered}$ | 200 V/MIL. (7.9 Kv/mm) min. ASTM D2671 | 154 |
| HSTTP | Ripple free conformance around sharp bends as in appliance handles and bus bars. Good cut through and solder-iron resistance. Black is U.V. Resistant. | $\begin{aligned} & 1.35 \\ & \text { MAX. } \end{aligned}$ | Self Extinguishing ASTM D876 | $\begin{gathered} \hline 1.0 \% \text { MAX. } \\ \text { ASTM } \\ \text { D570 } \end{gathered}$ | 400 V/MIL. <br> (15.8 Kv/mm) min. ASTM D2671 | 147 |
| HSTTN | Insulation and abrasion resistance, extensive military uses on vehicles and ship-board. Excellent chemical resistance especially to fuels and oils. Black is U.V. Resistant. |  | Self Extinguishing ASTM D876 | $\begin{gathered} \hline 1.0 \% \text { MAX. } \\ \text { ASTM } \\ \text { D570 } \end{gathered}$ | $300 \mathrm{~V} / \mathrm{MIL}$. <br> (11.8 Kv/mm) min. ASTM D2671 | 148 |
| HSTTK | Protection and strain relief for wires or connectors in a high temperature or solvent rich environment. Insulation of heater leads. | $\begin{gathered} \text { 1.8 MAX. } \\ \text { ASTM } \\ \text { D792 } \end{gathered}$ | Pass MIL-DTL- 23053/8B 4.6 .15 .3 | $\begin{gathered} \hline \text { 0.5\% MAX. } \\ \text { ASTM } \\ \text { D570 } \end{gathered}$ | Size to .500" (12.7mm) 800V/MIL. <br> ( $31.5 \mathrm{Kv} / \mathrm{mm}$ )min. Over .500" (12.7mm) 600 V/MIL (23.6 Kv/mm) min. ASTM D2671 | 150 |
| HSTTT | High insulation and abrasion resistance. High temperature, strain relief, resists corrosive atmospheres, self lubrication and nonwetting. Can be used with fiber optics and as a strain relief for high density connectors. It is U.V. Resistant | $\begin{gathered} \text { 2.2 MAX. } \\ \text { ASTM } \\ \text { D792 } \end{gathered}$ | N/A <br> Nonflammable | $\begin{aligned} & 0.01 \% \\ & \text { MAX. } \\ & \text { ASTM } \\ & \text { D570 } \end{aligned}$ | 800 V/MIL. <br> (31.5 Kv/mm) min. <br> ASTM D2671 | 149 |

## Non-Shrink PVC Tubing

- Provides insulation and protection for lead wires, wire harness assemblies, soldered joints and components in electrical and electronic equipment
- Material: Polyvinyl chloride (PVC)
- Voltage Rating: 300 V and 600 V
- All purpose, flexible, non-shrinkable
- Resistant to heat and moisture
- Applicable Specifications:

UL224 VW-1
CSA C22.2 No. 198.1 (OFT)
ASTM D-922, Grade CFR
MIL-I-631, Type F, Form U, Grade C
Class 1, Category 1


## The Functional Part Number System Makes Ordering Easy

Non-Shrink PVC Tubing Part Number System


## Non-Shrink PVC Tubing



| Type | Materials |  |
| :---: | :---: | :---: |
| TV105 | Polyvinyl Chloride |  |
|  | $-4^{\circ} \mathrm{F}$ to $221^{\circ} \mathrm{F}$ <br> $\left(-20^{\circ} \mathrm{C}\right.$ to $\left.105^{\circ} \mathrm{C}\right)$ | MIL-I-631,Type F, Form U Grade C Class 1, Cat 1 |
|  |  | Highly Flame Retardant VW-1 |


|  | Part Number Black | Nominal Size/ Trade Name | Inside Diameter - in. (mm) |  | Wall Thickness in. (mm) | $\begin{gathered} \text { Max. } \\ \text { Volt } \\ \text { Rating** } \end{gathered}$ | Std. <br> Pkg. <br> Qty.* | $\begin{aligned} & \text { Std. } \\ & \text { Ctn. } \\ & \text { Qty. } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Maximum | Minimum |  |  |  |  |
| TV105-242.5M | TV105-242.5M20 | 24 AWG | . 027 (0.68) | . 020 (0.51) | 012 (30) | 300 V | 2500 (762m) | 2 Reels |
| TV105-222.5M | TV105-222.5M20 | 22 AWG | . 032 (0.81) | . 025 (0.69) | . 012 (.30) |  | 2500 (762m) | 2 Reels |
| TV105-20M | TV105-20M20 | 20 AWG | . 039 (0.99) | . 032 (0.81) | . 016 (.41) |  | 1000 (304.8m) | 2 Reels |
| TV105-19M | TV105-19M20 | 19 AWG | . 042 (1.06) | . 036 (0.91) |  |  | 1000 (304.8m) | 2 Reels |
| TV105-18M | TV105-18M20 | 18 AWG | . 049 (1.24) | . 040 (1.02) |  |  | 1000 (304.8m) | 2 Reels |
| TV105-17M | TV105-17M20 | 17 AWG | . 053 (1.34) | . 045 (1.14) |  |  | 1000 (304.8m) | 2 Reels |
| TV105-16M | TV105-16M20 | 16 AWG | . 061 (1.54) | . 051 (1.30) |  |  | 1000 (304.8m) | 2 Reels |
| TV105-15M | TV105-15M20 | 15 AWG | . 066 (1.67) | . 057 (1.45) |  |  | 1000 (304.8m) | 2 Reels |
| TV105-14M | TV105-14M20 | 14 AWG | . 072 (1.82) | . 064 (1.63) |  |  | 1000 (304.8m) | 2 Reels |
| TV105-13M | TV105-13M20 | 13 AWG | . 080 (2.03) | . 072 (1.83) |  |  | 1000 (304.8m) | 2 Reels |
| TV105-12D | TV105-12D20 | 12 AWG | . 089 (2.26) | . 081 (2.06) |  |  | 500 (152.4m) | 2 Reels |
| TV105-11D | TV105-11D20 | 11 AWG | . 101 (2.56) | . 091 (2.31) |  |  | 500 (152.4m) | 2 Reels |
| TV105-10D | TV105-10D20 | 10 AWG | . 112 (2.84) | . 102 (2.59) |  |  | 500 (152.4m) | 2 Reels |
| TV105-9D | TV105-9D20 | 9 AWG | . 124 (3.14) | . 114 (2.90) | . 020 (.51) |  | 500 (152.4m) | 2 Reels |
| TV105-8D | TV105-8D20 | 8 AWG | . 141 (3.58) | . 129 (3.28) |  |  | 500 (152.4m) | 2 Reels |
| TV105-7D | TV105-7D20 | 7 AWG | . 158 (4.01) | . 144 (3.66) |  |  | 500 (152.4m) | 2 Reels |
| TV105-6TL | TV105-6TL20 | 6 AWG | . 178 (4.52) | . 162 (4.11) |  |  | 250 (76.2m) | 2 Reels |
| TV105-5TL | TV105-5TL20 | 5 AWG | . 198 (5.02) | . 182 (4.62) |  |  | 250 (76.2m) | 2 Reels |
| TV105-4TL | TV105-4TL20 | 4 AWG | . 224 (5.68) | . 204 (5.18) |  |  | 250 (76.2m) | 2 Reels |
| TV105-3TL | TV105-3TL20 | 3 AWG | . 249 (6.32) | . 229 (5.82) |  |  | 250 (76.2m) | 2 Reels |
| TV105-2TL | TV105-2TL20 | 2 AWG | . 278 (7.06) | . 258 (6.55) |  |  | 250 (76.2m) | 2 Reels |
| TV105-1TL | TV105-1TL20 | 1 AWG | . 311 (7.89) | . 289 (7.34) |  |  | 250 (76.2m) | 2 Reels |
| TV105-0TL | TV105-0TL20 | 0 AWG | . 347 (8.81) | . 325 (8.26) |  |  | 250 (76.2m) | 2 Reels |
| TV105-.25TL | TV105-.25TL20 | 1/4 | . 265 (6.73) | . 245 (6.22) |  |  | 250 (76.2m) | 2 Reels |
| TV105-.31TL | TV105-31TL20 | 5/16 | . 334 (8.48) | . 313 (7.95) | . 025 (.64) | 600V | 250 (76.2m) | 2 Reels |
| TV105-.38TL | TV105-.38TL20 | 3/8 | . 399 (10.13) | . 375 (9.53) |  |  | 250 (76.2m) | 2 Reels |
| TV105-.44TL | TV105-.44TL20 | 7/16 | . 462 (11.73) | . 438 (11.13) |  |  | 250 (76.2m) | 2 Reels |
| TV105-.50TL | TV105-50TL20 | 1/2 | . 524 (13.30) | . 500 (12.70) |  |  | 250 (76.2m) | 2 Reels |
| TV105-.56C | TV105-.56C20 | 9/16 | . 585 (14.85) | . 563 (14.30) | . 030 (.76) |  | 100 (30.5m) | 2 Reels |
| TV105-.63C | TV105-.63C20 | 5/8 | . 655 (16.63) | . 625 (15.88) |  |  | 100 (30.5m) | 2 Reels |
| TV105-.75C | TV105-.75C20 | 3/4 | . 786 (19.96) | . 750 (19.05) | . 035 (.89) |  | 100 (30.5m) | 2 Reels |
| TV105-88C | TV105-88C20 | 7/8 | . 911 (23.13) | . 875 (22.23) |  |  | 100 (30.5m) | 2 Reels |
| TV105-1.0L | TV105-1.0L20 | 1 | 1.036 (26.31) | 1.000 (25.40) |  |  | 50 (15.2m) | 2 Reels |
| TV105-1.25L | TV105-1.25L20 | $11 / 4$ | 1.290 (32.76) | 1.250 (31.75) | . 040 (1.02) |  | 50 (15.2m) | 2 Reels |
| TV105-1.50L | TV105-1.50L20 | $11 / 2$ | 1.550 (39.37) | 1.500 (38.10) | . 045 (1.14) |  | 50 (15.2m) | 2 Reels |

## Spiral Wrap



- Large variety of colors, materials and sizes
- Available in seven different materials and twelve different colors
- Can be used to color code wire bundles
- Flexible, neat, fast
- Allows breakouts of single/multiple wires and rerouting of replacement wires
- Harness multiple cables into a single manageable bundle
- Abrasion protection for wires, cables, hoses and tubing
- Reusable
- Tool supplied in each package


## Suggested Applications



- Organize wires for communication and computer equipment where access to the wires is required
- In OEM applications for protecting tubes and harnesses
- Abrasion protection for control panel wiring
- Personal computer and printer wire organization
- Protect glass tubes from abrasion and breakage
- Kink-proofing for all kinds of tubing... ideal for laboratories
- Eliminates lacing cord and tie-offs
- Use orange or yellow spiral wrap for protecting and identifying fiber optic cables


## The Functional Part Number System Makes Ordering Easy Spiral Wrap Part Number Description



|  |  | Material Availability |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Color | Color Suffix* | Polyethylene | Weather Resistant Polyethylene | Fire Resistant Polyethylene | Flame Retardant Polyethylene | Nylon | Weather Resistant Nylon | TEFLON $\ddagger$ |
| Natural (Opaque to Translucent) | No Suffix will be listed | $\checkmark$ |  | $\boldsymbol{\nu}$ (Natural color is white) | $\boldsymbol{\nu}$ (Natural color is white) | $\checkmark$ |  | $\checkmark$ |
| Weather Resistant Black | 0 |  | $\checkmark$ |  |  |  | $\checkmark$ |  |
| Brown | 1 | $\checkmark$ |  |  |  |  |  |  |
| Red | 2 | $\checkmark$ |  |  |  |  |  |  |
| Orange | 3 | $\checkmark$ |  |  |  |  |  |  |
| Yellow | 4 | $\checkmark$ |  |  |  |  |  |  |
| Green | 5 | $\checkmark$ |  |  |  |  |  |  |
| Blue | 6 | $\checkmark$ |  |  |  |  |  |  |
| Purple | 7 | $\checkmark$ |  |  |  |  |  |  |
| Gray | 8 | $\checkmark$ |  |  |  |  |  |  |
| White | 10 | $\checkmark$ |  |  |  |  |  |  |
| Pink | 16 | $\checkmark$ |  |  |  |  |  |  |
| Black | 20 |  |  | $\checkmark$ | $\checkmark$ |  |  |  |

Blank = Not applicable
*Colors are stocked for $1 / 4$ " and 1/2" polyethylene. Other sizes available, contact PANDUIT ${ }^{\oplus}$ Technical Assistance 866-405-6657.
$\ddagger$ TEFLON or equivalent fluorocarbon PTFE material is used. TEFLON is a registered trademark of E.I. DuPont de Nemours Co.


| Part <br> Number | Material | Color | $\begin{gathered} \text { A } \\ \text { Outside Dia. } \end{gathered}$ in. (mm) | $\begin{gathered} \text { B } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\stackrel{\mathrm{T}}{\mathrm{in} .(\mathrm{mm})}$ | Bundle Size in. (mm) | Std. <br> Pkg. <br> Qty.* <br> Ft. (m) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T12F-C | Polyethylene | Natural | . 125 (3.2) | . 218 (5.5) | . 03 (.76) | . 064 (1.6) - . 50 (12.7) |  |
| T19F-C |  |  | . 188 (4.8) | . 250 (6.4) | . 035 (.89) | . 125 (3.2) - 1.00 (25.4) |  |
| T25F-X |  |  | . 25 (6.4) | . 375 (9.5) | . 04 (1.02) | . $188(4.8)-2.00$ (50.8) | 10 (3.0) |
| T25F-C |  |  |  |  |  |  | 100 (30.5) |
| T25F-C1 |  | Brown |  |  |  |  |  |
| T25F-C10 |  | White |  |  |  |  |  |
| T25F-C16 |  | Pink |  |  |  |  |  |
| T25F-C2 |  | Red |  |  |  |  |  |
| T25F-C3 |  | Orange |  |  |  |  |  |
| T25F-C4 |  | Yellow |  |  |  |  |  |
| T25F-C5 |  | Green |  |  |  |  |  |
| T25F-C6 |  | Blue |  |  |  |  |  |
| T25F-C7 |  | Purple |  |  |  |  |  |
| T25F-C8 |  | Gray |  |  |  |  |  |
| T38F-C |  |  | . 375 (9.5) | . 437 (11.1) | . 055 (1.4) | . 316 (7.9)-3.00 (76.2) |  |
| T50F-X |  | Natural | . 50 (12.7) | . 50 (12.7) | . 06 (1.5) | . 38 (9.5) - 4.00 (101.6) | 10 (3.0) |
| T50F-C |  |  |  |  |  |  | 100 (30.5) |
| T50F-C1 |  | Brown |  |  |  |  |  |
| T50F-C10 |  | White |  |  |  |  |  |
| T50F-C16 |  | Pink |  |  |  |  |  |
| T50F-C2 |  | Red |  |  |  |  |  |
| T50F-C3 |  | Orange |  |  |  |  |  |
| T50F-C4 |  | Yellow |  |  |  |  |  |
| T50F-C5 |  | Green |  |  |  |  |  |
| T50F-C6 |  | Blue |  |  |  |  |  |
| T50F-C7 |  | Purple |  |  |  |  |  |
| T50F-C8 |  | Gray |  |  |  |  |  |
| T62F-C |  | Natural | . 625 (15.9) | . 625 (15.9) | . 062 (1.57) | . 50 (12.7)-4.50 (114.3) |  |
| T75F-C |  |  | . 75 (19.1) | . 875 (22.2) | . 065 (1.65) | . 625 (15.9)-5.00 (127.0) |  |
| T100F-C |  |  | 1 (25.4) | 1.125 (28.6) | . 07 (1.78) | . 875 (22.2) - 6.00 (152.4) |  |
| T12F-C0 | Weather Resistant Polyethylene | Black | . 125 (3.2) | . 218 (5.5) | . 03 (.760) | . 064 (1.6) - . 50 (12.7) |  |
| T19F-C0 |  |  | . 188 (4.8) | . 250 (6.4) | . 035 (0.89) | . 125 (3.2) - 1.00 (25.4) |  |
| T25F-X0 |  |  | . 25 (6.4) | . 375 (9.5) | . 04 (1.02) | . 188 (4.8) - 2.00 (50.8) | 10 (3.0) |
| T25F-C0 |  |  |  |  |  |  | 100 (30.5) |
| T38F-C0 |  |  | . 375 (9.5) | . 437 (11.1) | . 055 (1.4) | . 316 (7.9) - 3.00 (76.2) |  |
| T50F-X0 |  |  | . 5 (12.7) | . 5 (12.7) | . 06 (1.5) | . 375 (9.5) - 4.00 (101.6) | 10 (3.0) |
| T50F-C0 |  |  |  |  |  |  | 100 (30.5) |
| T62F-C0 |  |  | . 625 (15.9) | . 625 (15.9) | . 062 (1.57) | . 50 (12.7) - 4.50 (114.3) |  |
| T75F-C0 |  |  | . 75 (19.1) | . 875 (22.2) | . 065 (1.65) | . 625 (15.9)-5.00 (127.0) |  |
| T100F-C0 |  |  | 1 (25.4) | 1.125 (28.6) | . 07 (1.78) | . 875 (22.2) - 6.00 (152.4) |  |


U.L. Recognized


| Part Number | Material | Color | $\begin{array}{\|c\|} \hline \text { A } \\ \text { Outside Dia. } \\ \text { in. (mm) } \end{array}$ | $\begin{gathered} \text { B } \\ \text { in. }(\mathrm{mm}) \end{gathered}$ | $\stackrel{\mathrm{T}}{\mathrm{in} .}(\mathrm{mm})$ | Bundle Size in. (mm) | Std. Pkg. Qty.* Ft. (m) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T12R-C |  | Natural | . 125 (3.2) | . 218 (5.5) | . 03 (.76) | . 064 (1.6) - . 50 (12.7) | 100 (30.5) |
| T19R-C |  | Natural | . 188 (4.8) | . 250 (6.4) | . 035 (.89) | . 125 (3.2) - 1.00 (25.4) | 100 (30.5) |
| T25R-C |  | Natural | . 25 (6.4) | . 375 (9.5) | . 04 (1.02) | . 188 (4.8) - 2.00 (50.8) | 100 (30.5) |
| T25R-C20 | Resistant | Black | . 25 (6.4) | . 375 (9.5) | . 04 (1.02) | . 188 (4.8) - 2.00 (50.8) | 100 (30.5) |
| T38R-C | Resistant | Natural | . 375 (9.5) | . 437 (11.1) | . 055 (1.4) | . 316 (7.9) - 3.00 (76.2) | 100 (30.5) |
| T50R-C | Polyethylene | Natural | . 50 (12.7) | . 50 (12.7) | . 06 (1.5) | . 375 (9.5) - 4.00 (101.6) | 100 (30.5) |
| T62R-C |  | Natural | . 625 (15.9) | . 625 (15.9) | . 062 (1.57) | . 50 (12.7)-4.50 (114.3) | 100 (30.5) |
| T75R-C |  | Natural | . 75 (19.1) | . 875 (22.2) | . 065 (1.65) | . 625 (15.9)-5.00 (127.0) | 100 (30.5) |
| T100R-C |  | Natural | 1.00 (25.4) | 1.125 (28.6) | . 07 (1.78) | . 875 (22.2) - 6.00 (152.4) | 100 (30.5) |
| T12FR-C |  | Natural | . 125 (3.2) | . 218 (5.5) | . 03 (.76) | . 064 (1.6) - . 50 (12.7) | 100 (30.5) |
| T12FR-C20 |  | Black | . 125 (3.2) | . 218 (5.5) | . 03 (.76) | . 064 (1.6) - . 50 (12.7) | 100 (30.5) |
| T19FR-C |  | Natural | . 188 (4.8) | . 250 (6.4) | . 032 (.81) | . 125 (3.2) - 1.00 (25.4) | 100 (30.5) |
| T19FR-C20 |  | Black | . 188 (4.8) | . 250 (6.4) | . 032 (.81) | . 125 (3.2) - 1.00 (25.4) | 100 (30.5) |
| T25FR-C |  | Natural | . 25 (6.4) | . 375 (9.5) | . 04 (1.02) | . 188 (4.8) - 2.00 (50.8) | 100 (30.5) |
| T25FR-C20 |  | Black | . 25 (6.4) | . 375 (9.5) | . 04 (1.02) | . 188 (4.8)-2.00 (50.8) | 100 (30.5) |
| T38FR-C | Flame | Natural | . 375 (9.5) | . 437 (11.1) | . 055 (1.4) | . 316 (7.9) - 3.00 (76.2) | 100 (30.5) |
| T38FR-C20 | Retardant | Black | . 375 (9.5) | . 437 (11.1) | . 055 (1.4) | . 316 (7.9) - 3.00 (76.2) | 100 (30.5) |
| T50FR-C | Polyethylene | Natural | . 50 (12.7) | . 50 (12.7) | . 06 (1.5) | . 375 (9.5) - 4.00 (101.6) | 100 (30.5) |
| T50FR-C20 | UL94V-0 | Black | . 50 (12.7) | . 50 (12.7) | . 06 (1.5) | . 375 (9.5) - 4.00 (101.6) | 100 (30.5) |
| T62FR-C |  | Natural | . 625 (15.9) | . 625 (15.9) | . 062 (1.57) | . 50 (12.7) - 4.50 (114.3) | 100 (30.5) |
| T62FR-C20 |  | Black | . 625 (15.9) | . 625 (15.9) | . 062 (1.57) | . 50 (12.7) - 4.50 (114.3) | 100 (30.5) |
| T75FR-C |  | Natural | . 75 (19.1) | . 875 (22.2) | . 065 (1.65) | . 625 (15.9)-5.00 (127.0) | 100 (30.5) |
| T75FR-C20 |  | Black | . 75 (19.1) | . 875 (22.2) | . 065 (1.65) | . 625 (15.9)-5.00 (127.0) | 100 (30.5) |
| T100FR-C |  | Natural | 1.00 (25.4) | 1.125 (28.6) | . 07 (1.78) | . 875 (22.2) - 6.00 (152.4) | 100 (30.5) |
| T100FR-C20 |  | Black | 1.00 (25.4) | 1.125 (28.6) | . 07 (1.78) | . 875 (22.2) - 6.00 (152.4) | 100 (30.5) |
| T12N-C |  | Natural | . 125 (3.2) | . 218 (5.5) | . 015 (.38) | . 064 (1.6) - . 50 (12.7) | 100 (30.5) |
| T12N-C0 |  | Black | . 125 (3.2) | . 218 (5.5) | . 015 (.38) | . 064 (1.6) - . 50 (12.7) | 100 (30.5) |
| T19N-C |  | Natural | . 188 (4.8) | . 250 (6.4) | . 020 (.51) | . 125 (3.2) - 1.00 (25.4) | 100 (30.5) |
| T19N-C0 |  | Black | . 188 (4.8) | . 250 (6.4) | . 020 (.51) | . 125 (3.2) - 1.00 (25.4) | 100 (30.5) |
| T25N-C |  | Natural | . 25 (6.4) | . 375 (9.5) | . 023 (.58) | . 188 (4.8) - 2.00 (50.8) | 100 (30.5) |
| T25N-C0 |  | Black | . 25 (6.4) | . 375 (9.5) | . 023 (.58) | . 188 (4.8)-2.00 (50.8) | 100 (30.5) |
| T38N-C | Nylon (Black | Natural | . 375 (9.5) | . 437 (11.1) | . 03 (.76) | . 316 (7.9) - 3.00 (76.2) | 100 (30.5) |
| T38N-C0 | is Weather | Black | . 375 (9.5) | . 437 (11.1) | . 03 (.76) | . 316 (7.9) - 3.00 (76.2) | 100 (30.5) |
| T50N-C | Resistant | Natural | . 50 (12.7) | . 50 (12.7) | . 032 (.81) | . 375 (9.5)-4.00 (101.6) | 100 (30.5) |
| T50N-C0 | Nylon) | Black | . 50 (12.7) | . 50 (12.7) | . 032 (.81) | . 375 (9.5) - 4.00 (101.6) | 100 (30.5) |
| T62N-C |  | Natural | . 625 (15.9) | . 625 (15.9) | . 035 (.89) | . 50 (12.7) - 4.50 (114.3) | 100 (30.5) |
| T62N-C0 |  | Black | . 625 (15.9) | . 625 (15.9) | . 03 (.89) | . 50 (12.7) - 4.50 (114.3) | 100 (30.5) |
| 775N-C |  | Natural | . 75 (19.1) | . 875 (22.2) | . 04 (1.02) | . 625 (15.9)-5.00 (127.0) | 100 (30.5) |
| T75N-C0 |  | Black | . 75 (19.1) | . 875 (22.2) | . 04 (1.02) | . 625 (15.9)-5.00 (127.0) | 100 (30.5) |
| T100N-C |  | Natural | 1.00 (25.4) | 1.125 (28.6) | . 045 (1.1) | . 875 (22.2) - 6.00 (152.4) | 100 (30.5) |
| T100N-C0 |  | Black | 1.00 (25.4) | 1.125 (28.6) | . 045 (1.1) | . 875 (22.2) - 6.00 (152.4) | 100 (30.5) |
| T12T-C |  | Natural | . 125 (3.2) | . 218 (5.5) | . 02 (.5) | . 064 (1.6) - . 50 (12.7) | 100 (30.5) |
| T19T-C |  | Natural | . 188 (4.8) | . 250 (6.4) | . 03 (.76) | . 125 (3.2) - 1.00 (25.4) | 100 (30.5) |
| T25T-L |  | Natural | . 25 (6.4) | . 375 (9.5) | . 03 (.76) | . 188 (4.8) - 2.00 (50.8) | 50 (15.2) |
| T50T-Q | TEFLON $\ddagger$ | Natural | . 50 (12.7) | . 50 (12.7) | . 03 (.76) | . 375 (9.5) - 4.00 (101.6) | 25 (7.6) |
| T62T-Q |  | Natural | . 625 (15.9) | . 625 (15.9) | . 03 (.76) | . 50 (12.7) - 4.50 (114.3) | 25 (7.6) |
| T75T-X |  | Natural | . 75 (19.1) | . 875 (22.2) | . 03 (.76) | . 625 (15.9)-5.00 (127.0) | 10 (3.0) |
| T100T-X |  | Natural | 1.00 (25.4) | 1.125 (28.6) | . 04 (1.02) | . 875 (22.2) - 6.00 (152.4) | 10 (3.0) |

## PANDUIT

## Pan-Wrap ${ }^{\text {TM }}$ Split Harness Wrap



Pan-Wrap ${ }^{\text {TM }}$ Split Harness Wrap is an innovative addition to the PANDUIT ${ }^{\circledR}$ Abrasion Protection Line. Engineered for wire harness protection, PAN-WRAP ${ }^{T M}$ bundles and protects wire, cable and hoses. The PAN-WRAP ${ }^{\text {TM }}$ design provides full $360^{\circ}$ coverage with pre-cut slots for break-outs to maximize reliability and reduce installation time. PAN-WRAP ${ }^{T M}$ tools are available for easy installation.

## Features and Benefits

- Slotted walls allow wire break-outs to speed installation
- Flexible design allows maneuverability and protects wire and cables during movement
- New installation tool reduces installation time and lowers installed cost
- $360^{\circ}$ abrasion protection improves product reliability


## Applications

- Wire Harness Assemblers
- Transportation
- Commercial Appliances
- Industrial Robotics


Open Pan-Wrap ${ }^{\text {m" }}$ Tool to enable the wire bundle to be inserted inside the tool.


Insert wire bundle inside tool. Close tool to secure the wire bundle and prepare to insert bundle into the PAN-WRAP ${ }^{T M}$ Split Harness Wrap.


Insert end of tool into the end of Split Harness Wrap. Begin pulling the tool making certain that the Split Harness Wrap is feeding over the wire bundle.


Hold end of Split Harness Wrap and wire bundle while continuing to pull the tool, inserting the wire bundle into the length of the Split Harness Wrap.

## Split Harness Wrap

| Part <br> Number | Size <br> I.D. <br> In. (mm) | Maximum <br> Bundle <br> Diameter <br> In. (mm) | Material | Color | Length <br> Ft. (M) | Std. <br> Pkg. <br> Qty.* |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| PW50F-T | $.50(12.7)$ | $.55(13.97)$ | Polyethylene | Natural | $200(61.05)$ | 1 |
| PW75F-C | $.75(19.05)$ | $.80(20.32)$ | Polyethylene | Natural | $100(30.48)$ | 1 |
| PW50F-T20 | $.50(12.7)$ | $.55(13.97)$ | Polyethylene | Black | $200(61.05)$ | 1 |
| PW75F-C20 | $.75(19.05)$ | $.80(20.32)$ | Polyethylene | Black | $100(30.48)$ | 1 |

## Tool

| Part <br> Number | Material | Color | Size | Std. <br> Pkg. <br> Qty. |
| :--- | :---: | :---: | :---: | :---: |
| PWT50 | ABS | White | $.50^{\prime \prime}$ | 1 |
| PWT75 | ABS | White | $.75^{\prime \prime}$ | 1 |

Features:


- Nylon grommet edging strips conform to the Military Standard MS21266
- Slotted or solid wall construction
- Available with pressure sensitive adhesive
- No liner to remove from adhesive


## Suggested Applications:



- Use the solid wall product on straight edges
- Use to prevent abrasion against the sharp edges of panel walls and knockouts


## The Functional Part Number System Makes Ordering Easy Grommet Edging Part Number Description



Solid Grommet
Edging = GES

## Choose from five materials:



Nylon 6.6

- Self extinguishing
- For indoor use up to $149^{\circ} \mathrm{F}\left(65^{\circ} \mathrm{C}\right)$
- Available with slotted wall only ${ }^{\text {c }}$



## Polyethylene

- General purpose material for indoor use up to $122^{\circ} \mathrm{F}\left(50^{\circ} \mathrm{C}\right)$
- Style GEE and GES provided in .030" ( 0.8 mm ) thick material, makes them highly flexible
- Available with slotted or solid wall construction


Weather Resistant Polyethylene

- For outdoor use up to $122^{\circ} \mathrm{F}\left(50^{\circ} \mathrm{C}\right)$
- Excellent resistance to ultra-violet light



## Flame Retardant Polyethylene

- Will not support a flame
- Available with slotted or solid wall construction


Adhesive Lined Polyethylene

- Base is lined with a pressure sensitive adhesive
- Available in natural and weather resistant
- Adhesive ensures that the product will stay where it is installed

| Part Number | Material | Color | Panel Thickness in. (mm) | Dimensions-in. (mm) |  | Ft. (m) <br> Per Roll | Std. <br> Pkg. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | A | B |  |  |
| GEE36 |  | Natural | . 026 (.7) - . 036 (.9) | . 106 (2.7) | . 117 (3.0) | 100 (30.5) | Roll |
| GEE36F-C0 |  | Black | . 026 (.7) - . 036 (.9) | . 106 (2.7) | . 117 (3.0) | 100 (30.5) | 1 Roll |
| GEE62F-C | Continuous | Natural | . 036 (.9) - . 062 (1.6) | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GEE62F-C0 | Polyethylene | Black | . 036 (.9) - . 062 (1.6) | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GEE99F-C | (Slotted | Natural | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 186 (4.7) | 100 (30.5) | 1 Roll |
| GEE99F-C0 | Wall) | Black | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 186 (4.7) | 100 (30.5) | 1 Roll |
| GEE144F-C |  | Natural | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 222 (5.6) | 100 (30.5) | 1 Roll |
| GEE144F-C0 |  | Black | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 222 (5.6) | 100 (30.5) | 1 Roll |
| GE |  | Natural | . 026 (.7) - . 036 (.9) | . 106 (2.7) | . 117 (3.0) | 100 (30.5) | Roll |
| GES36F-C0 |  | Black | . 026 (.7) - . 036 (.9) | . 106 (2.7) | . 117 (3.0) | 100 (30.5) | 1 Roll |
| GES62F-C |  | Natural | . 036 (.9) - . 062 (1.6) | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GES62F-C0 | Continuous | Black | . 036 (.9) - . 062 (1.6) | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GES99F-C |  | Natural | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 186 (4.7) | 100 (30.5) | 1 Roll |
| GES99F-C0 | Polyethylene <br> (Solid Wall) | Black | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 186 (4.7) | 100 (30.5) | 1 Roll |
| GES144F-C |  | Natural | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 222 (5.6) | 100 (30.5) | 1 Roll |
| GES144F-C0 |  | Black | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 222 (5.6) | 100 (30.5) | 1 Roll |
| GES1 |  | Natural | . 144 (3.7) - . 189 (4.8) | . 297 (7.6) | . 301 (7.7) | 100 (30.5) | 1 Roll |
| GES189F-CO |  | Black | . 144 (3.7) - . 189 (4.8) | . 297 (7.6) | . 301 (7.7) | 100 (30.5) | 1 Roll |
| GEE62F-A-C | Continuous | Natural | 036 (.9) - . 062 (1.6) | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GEE62F-A-C0 | Polyethylene | Black | . 036 (.9) - . 062 (1.6) | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GEE99F-A-C |  | Natural | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 186 (4.7) | 100 (30.5) | 1 Roll |
| GEE99F-A-C0 | Adhesive | Black | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 186 (4.7) | 100 (30.5) | 1 Roll |
| GEE144F-A-C | (Slotted | Natural | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 222 (5.6) | 100 (30.5) | 1 Roll |
| GEE144F-A-C0 | Wall) | Black | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 222 (5.6) | 100 (30.5) | 1 Roll |
| GES62F-A-C |  | Natural | 036 (.9) - . 062 (1.6) | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GES62F-A-C0 | Polyethylene | Black | . 036 (.9)-. $062(1.6)$ | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GES99F-A-C | Polyethylene With | Natural | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 186 (4.7) | 100 (30.5) | 1 Roll |
| GES99F-A-C0 | Adhesive | Black | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 186 (4.7) | 100 (30.5) | 1 Roll |
| GES144F-A-C | (Solid Wall) | Natural | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 222 (5.6) | 100 (30.5) | 1 Roll |
| GES144F-A-C0 |  | Black | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 222 (5.6) | 100 (30.5) | 1 Roll |
| GEE36FR-C | Flame | Natural | . 026 (.7) - . 036 (.9) | . 106 (2.7) | . 117 (3.0) | 100 (30.5) | 1 Roll |
| GEE62FR-C | Retardant | Natural | . 036 (.9)- . 062 (1.6) | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GEE99FR-C | Polyethylene | Natural | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 155 (3.9) | 100 (30.5) | 1 Roll |
| GEE144FR-C | (Slotted Wall) | Natural | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 232 (5.9) | 100 (30.5) | 1 Roll |
| GE | Flam | Natural | . 026 (.7) - . 036 (.9) | . 106 (2.7) | . 117 (3.0) | 100 (30.5) | Roll |
| GES62FR-C | Retardant | Natural | . 036 (.9)-. 062 (1.6) | . 131 (3.3) | . 160 (4.1) | 100 (30.5) | 1 Roll |
| GES99FR-C | Polyethylene | Natural | . 062 (1.6) - . 099 (2.5) | . 169 (4.3) | . 155 (3.9) | 100 (30.5) | 1 Roll |
| GES144FR-C | (Solid Wall) | Natural | . 099 (2.5) - . 144 (3.7) | . 213 (5.4) | . 232 (5.9) | 100 (30.5) | 1 Roll |
| GEE47N-C |  | Natural | . 039 (1.0) - . 055 (1.4) | . 130 (3.3) | . 140 (3.5) | 100 (30.5) | 1 Roll |
| GEE55N-C | Continuous <br> Nylon 6.6 | Natural | . 047 (1.2) - . 063 (1.6) | . 133 (3.4) | . 140 (3.5) | 100 (30.5) | 1 Roll |
| GEE71N-C | (Slotted | Natural | . 063 (1.6) - . 079 (2.0) | . 150 (3.8) | . 140 (3.5) | 100 (30.5) | 1 Roll |
| GEE98N-C | (Slotted Wall) | Natural | . 091 (2.3) - . 106 (2.7) | . 180 (4.6) | . 140 (3.5) | 100 (30.5) | 1 Roll |
| GEE134N-C | Wali) | Natural | . 126 (3.2) - . 142 (3.6) | . 210 (5.3) | . 140 (3.5) | 100 (30.5) | 1 Roll |

*Order the number of reels required in multiples of standard package quantities.

| Part Number | Material | Color | Panel Thickness in. (mm) | Dimensions-in. (mm) |  | $\begin{gathered} \text { Pieces } \\ \text { Per } \\ \text { Pkg. } \end{gathered}$ | Std. Pkg. Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | A | B |  |  |
| GE52-C |  | Natural | . 015 (.4)-. 052 (1.3) | . 150 (3.8) | . 155 (3.9) | 100 | Strips |
| GE52-C694 | Military | Natural | . 015 (.4) - . 052 (1.3) | . 150 (3.8) | . 155 (3.9) | 100 | Strips |
| GE85-C | Standard | Natural | . 052 (1.3)-. 085 (2.2) | . 175 (4.5) | . 155 (3.9) | 100 | Strips |
| GE85-C694 | MS21266 | Natural | . 05 (1.3)-. 085 (2.2) | . 175 (4.5) | . 155 (3.9) | 100 | Strips |
| GE128-C | 12.75 | Natural | . 085 (2.2) - . 128 (3.3) | . 220 (5.6) | . 155 (3.9) | 100 | Strips |
| GE128-C694 | (323.85mm) | Natural | . 085 (2.2) - . 128 (3.3) | . 220 (5.6) | . 155 (3.9) | 100 | Strips |
| GE192-L | Nylon 6.6 | Natural | . 128 (3.3) - . 192 (4.9) | . 325 (8.3) | . 230 (5.8) | 50 | Strips |
| GE192-L694 | Strips -69 | Natural | . 128 (3.3) - . 192 (4.9) | . 325 (8.3) | . 230 (5.8) | 50 | Strips |
| GE255-L | designates | Natural | . 192 (4.9) - . 255 (6.5) | . 385 (9.8) | . 240 (6.1) | 50 | Strips |
| GE318-L | Flame | Natural | . 255 (6.5) - . 318 (8.1) | . 455 (11.3) | . 255 (6.5) | 50 | Strips |
| GE380-Q | Retardant) | Natural | . 318 (8.1) - . 380 (9.7) | . 515 (13.1) | . 255 (6.5) | 25 | Strips |
| GE510-Q |  | Natural | . 380 (9.7) - . 510 (13.0) | . 640 (16.3) | . 255 (6.5) | 25 | Strips |

Continuous (100') Rolls Style GEE Slotted Wall

## Nylon 6.6

## Nylon 6.6

Adhesive Lined Polyethylene


Style GES
Solid Wall
Continuous
(100') Rolls
Adhesive Lined Polyethylene

## 

Polyethylene

Polyethylene


[^8]

# The Functional Part Number System Makes Ordering Easy Corrugated Loom Tubing Part Number Description 

|  |  | Example: CLT 100 N-C 630 | $\underline{\mathrm{N}}$-C 630 |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Example: $\frac{\text { CLI }}{} 10$ |  |  |
|  |  | $\square$ |  |  |
|  |  |  |  |  |
| Part Description | Bundle Diameter | Material | Package Size | Color Suffix |
| Corrugated Loom | $25=1 / 4^{\prime \prime}$ | $N=$ Heat Stabilized Nylon | $X=10{ }^{\prime}$ | $630=$ Heat Stabilized |
| Tubing | $35=5 / 16 "$ | F = Polyethylene | $\mathrm{L}=50^{\prime}$ | Black Nylon 6 |
| CLT = Slit Wall | $38=3 / 8{ }^{\prime \prime}$ |  | $\mathrm{C}=100^{\prime}$ | 20 = Black Polyethylene |
| CLTS= Solid Wall | $50=1 / 2^{\prime \prime}$ |  | $\mathrm{T}=200{ }^{\prime}$ | 3= Orange |
|  | $62=5 / 8{ }^{\prime \prime}$ |  | D = 500' | 4 = Yellow |
|  | $75=3 / 4^{\prime \prime}$ |  | $6 \mathrm{C}=60{ }^{\prime}$ |  |
|  | $100=1 "$ |  |  |  |
|  | $125=11 / 4^{\prime \prime}$ |  |  |  |
|  | $150=11 / 2^{\prime \prime}$ |  |  |  |
|  | $188=17 / 8^{\prime \prime}$ |  |  |  |


| Part Number |  | Material | Color | Inside Diameter in. (mm) | Outside Diameter in. (mm) | Length Ft. (m) | Std. Pkg. Qty.* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Slit | Solid |  |  |  |  |  |  |
| CLT25F-C20 | CLTS25F-C |  |  | . 265 (6.7) | . 390 (9.9) | 100 (30.5) |  |
| CLT35F-C20 | CLTS35F-C |  |  | . 350 (8.9) | . 500 (12.7) | 100 (30.5) |  |
| CLT38F-C20 | CLTS38F-C |  |  | . 414 (10.5) | . 556 (14.1) | 100 (30.5) |  |
| CLT50F-C20 | CLTS50F-C |  |  | . 505 (12.8) | . 670 (17.0) | 100 (30.5) |  |
| CLT62F-C20 | CLTS62F-C |  |  | . 665 (16.9) | . 830 (21.1) | 100 (30.5) |  |
| CLT75F-C20 | CLTS75F-C |  |  | . 760 (19.3) | . 935 (23.7) | 100 (30.5) |  |
| CLT100F-C20 | CLTS100F-C |  |  | . 915 (23.2) | 1.090 (27.7) | 100 (30.5) | 1 Roll |
| CLT125F-L20 | CLTS125F-L | Polyethylene | Black | 1.290 (32.8) | 1.500 (38.1) | 50 (15.2) | 1 Roll |
| CLT150F-X20 |  |  |  | 1.550 (39.1) | 1.860 (47.2) | 10 (3.0) |  |
| CLT150F-T20 | ** |  |  | 1.550 (39.1) | 1.860 (47.2) | 200 (61.0) |  |
| CLT150F-D20 | CLTS150F-D |  |  | 1.550 (39.1) | 1.860 (47.2) | 500 (152.4) |  |
| CLT188F-X20 | ** |  |  | 1.881 (47.8) | 2.169 (55.1) | 10 (3.0) |  |
| CLT188F-C20 | ** |  |  | 1.881 (47.8) | 2.169 (55.1) | 100 (30.5) |  |
| CLT188F-6C20 | ** |  |  | 1.881 (47.8) | 2.169 (55.1) | 600 (182.9) |  |
| CLT25F-C3 | CLTS25F-C3 |  |  | . 265 (6.7) | . 390 (9.9) | 100 (30.5) |  |
| CLT35F-C3 | CLTS35F-C3 |  |  | . 350 (8.9) | . 500 (12.7) | 100 (30.5) |  |
| CLT38F-C3 | CLTS38F-C3 |  |  | . 414 (10.5) | . 556 (14.1) | 100 (30.5) |  |
| CLT50F-C3 | CLTS50F-C3 |  |  | . 505 (12.8) | . 670 (17.0) | 100 (30.5) |  |
| CLT62F-C3 | CLTS62F-C3 |  |  | . 665 (16.9) | . 830 (21.1) | 100 (30.5) |  |
| CLT75F-C3 | CLTS75F-C3 |  |  | . 760 (19.3) | . 935 (23.7) | $100 \text { (30.5) }$ |  |
| CLT100F-C3 | CLTS100F-C3 | Polyethylene | Orange | . 915 (23.2) | 1.090 (27.7) | 100 (30.5) | 1 Roll |
| CLT125F-L3 | CLTS125F-L3 |  |  | 1.290 (32.8) | 1.500 (38.1) | 50 (15.2) |  |
| CLT150F-X3 |  |  |  | 1.550 (39.1) | 1.860 (47.2) | 10 (3.0) |  |
| CLT150F-D3 | CLTS150F-D3 |  |  | 1.550 (39.1) | 1.860 (47.2) | 500 (152.4) |  |
| CLT188F-X3 |  |  |  | 1.881 (47.8) | 2.169 (55.1) | 10 (3.0) |  |
| CLT188F-C3 | ** |  |  | 1.881 (47.8) | 2.169 (55.1) | 100 (30.5) |  |
| CLT150F-X4 | ** |  |  | 1.550 (39.1) | 1.860 (47.2) | 10 (3.0) |  |
| CLT150F-D4 | ** |  |  | 1.550 (39.1) | 1.860 (47.2) | 500 (152.4) |  |
| CLT188F-X4 | ** | Polyethylene | Yellow | 1.881 (47.8) | 2.169 (55.1) | 10 (3.0) | 1 Roll |
| CLT188F-C4 | ** |  |  | 1.881 (47.8) | 2.169 (55.1) | 100 (30.5) |  |
| CLT25N-C630 | CLTS25N-C |  |  | . 265 (6.7) | . 390 (9.9) | 100 (30.5) |  |
| CLT35N-C630 | CLTS35N-C |  |  | . 350 (8.9) | . 500 (12.7) | 100 (30.5) |  |
| CLT38N-C630 | CLTS38N-C |  |  | . 414 (10.5) | . 556 (14.1) | 100 (30.5) |  |
| CLT50N-C630 | CLTS50N-C |  |  | . 505 (12.8) | . 670 (17.0) | 100 (30.5) |  |
| CLT62N-C630 | CLTS62N-C | Heat Stabilized | Black | . 665 (16.9) | . 830 (21.1) | 100 (30.5) | 1 Roll |
| CLT75N-C630 | CLTS75N-C | Black Nylon 6 | Black | . 760 (19.3) | . 935 (23.7) | 100 (30.5) | Roll |
| CLT100N-C630 | CLTS100N-C |  |  | . 915 (23.2) | 1.090 (27.7) | 100 (30.5) |  |
| CLT125N-L630 | CLTS125N-L |  |  | 1.290 (32.8) | 1.500 (38.1) | 50 (15.2) |  |
| CLT150N-D630 | $* *$ |  |  | 1.550 (39.1) | 1.860 (47.2) | 500 (152.4) |  |
| CLT188N-6C630 | ** |  |  | 1.881 (47.8) | 2.169 (55.1) | 600 (182.9) |  |



## Features:

- Fast assembly
- Virtually eliminates taping
- Easy to assemble
- Locking latch design
$\qquad$
- Durable polyethylene shell
- Works with most popular sizes of Corrugated Loom Tubing

WITHOUT
PANDUIT Fittings


## Benefits:

Reduces production time Improves system appearance Reduces operator fatigue Secures fittings firmly in place Protects wires Provides easy selection of fittings for application needs


| Part Number | Dimensions in. (mm) |  |  |  | Material | Color | Packaging* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D |  |  | Std. <br> Pkg <br> Qty. | Std. <br> Ctn. <br> Qty. |
| CF382538F-Q | $\begin{gathered} .38 \\ (9.53) \\ \hline \end{gathered}$ | $\begin{gathered} .25 \\ (6.35) \end{gathered}$ | $\begin{gathered} .38 \\ (9.53) \\ \hline \end{gathered}$ | $\begin{gathered} 2.06 \\ (52.32) \\ \hline \end{gathered}$ | Polyethylene | Black | 25 | 100 |
| CF502550F-Q |  |  |  |  |  |  |  |  |
| CF503850F-Q | (12.70) | $\begin{gathered} \hline .38 \\ (9.53) \\ \hline \end{gathered}$ | (12.70) | (58.42) |  |  |  |  |
| CF752575F-Q | $\begin{gathered} .75 \\ (19.05) \end{gathered}$ | $\begin{gathered} .25 \\ (6.35) \\ \hline \end{gathered}$ | $\begin{gathered} .75 \\ (19.05) \end{gathered}$ | $\begin{gathered} 3.06 \\ (77.72) \end{gathered}$ |  |  |  |  |
| CF753875F-Q |  | $\begin{gathered} .38 \\ (9.53) \end{gathered}$ |  |  |  |  |  |  |

## Braided Expandable Sleeving - Polyethylene Terephthalate - PET



- Provides continuous abrasion resistance for wires, cables and tubing
- Lightweight, durable protection
- Highly flexible open weave will not trap heat or humidity
- Rated for use up to $257^{\circ} \mathrm{F}\left(125^{\circ} \mathrm{C}\right)$
- Allows for use with irregular shapes
- Stock colors: Black, gray and white
- See page 176 for cutting tools

데

## The Functional Part Number System Makes Ordering Easy Braided Expandable Sleeving Part Number Description



| Part Number Black | Part Number Gray | Part Number White | Nominal I.D. in. | Nominal Diameter Range in. (mm) | Std. <br> Pkg. <br> Qty.* Feet ( m ) | Std. <br> Ctn. <br> Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { SE12P-TRO } \\ & \text { SE12P-MR0 } \end{aligned}$ | $\begin{aligned} & \hline \text { SE12P-TR8 } \\ & \text { SE12P-MR8 } \end{aligned}$ | SE12P-MR10 | 1/8 | $\begin{aligned} & .094 \text { to } 250 \\ & \text { (2.4) to (6.4) } \end{aligned}$ | $\begin{gathered} 200(61.0) \\ 1000(304.8) \end{gathered}$ | 4 Reels 2 Reels |
| $\begin{aligned} & \text { SE25P-TR0 } \\ & \text { SE25P-MR0 } \end{aligned}$ | $\begin{aligned} & \hline \text { SE25P-TR8 } \\ & \text { SE25P-MR8 } \end{aligned}$ | SE25P-MR10 | 1/4 | $\begin{aligned} & .125 \text { to } .375 \\ & (3.2) \text { to }(9.5) \\ & \hline \end{aligned}$ | $\begin{gathered} 200(61.0) \\ 1000(304.8) \end{gathered}$ | 4 Reels 2 Reels |
| $\begin{aligned} & \text { SE38P-TR0 } \\ & \text { SE38P-MR0 } \end{aligned}$ | $\begin{aligned} & \text { SE38P-TR8 } \\ & \text { SE38P-MR8 } \end{aligned}$ | SE38P-MR10 | 3/8 | $\begin{aligned} & .188 \text { to } .562 \\ & (4.7) \text { to (14.3) } \end{aligned}$ | $\begin{gathered} 200(61.0) \\ 1000(304.8) \end{gathered}$ | 4 Reels 2 Reels |
| $\begin{aligned} & \text { SE50P-CR0 } \\ & \text { SE50P-DR0 } \end{aligned}$ | $\begin{aligned} & \hline \text { SE50P-CR8 } \\ & \text { SE50P-DR8 } \end{aligned}$ | SE50P-DR10 | 1/2 | $\begin{aligned} & .250 \text { to } .750 \\ & \text { (6.4) to (19.1) } \end{aligned}$ | $\begin{gathered} 100(30.5) \\ 500(152.4) \\ \hline \end{gathered}$ | 4 Reels 2 Reels |
| $\begin{aligned} & \text { SE75P-CR0 } \\ & \text { SE75P-DR0 } \end{aligned}$ | $\begin{aligned} & \text { SE75P-CR8 } \\ & \text { SE75P-DR8 } \end{aligned}$ | SE75P-DR10 | 3/4 | $\begin{gathered} .500 \text { to } 1.25 \\ (12.7) \text { to }(31.8) \\ \hline \end{gathered}$ | $\begin{gathered} 100(30.5) \\ 500(152.4) \\ \hline \end{gathered}$ | 4 Reels <br> 2 Reels |
| $\begin{aligned} & \hline \text { SE125P-LR0 } \\ & \text { SE125P-TR0 } \end{aligned}$ | $\begin{aligned} & \text { SE125P-LR8 } \\ & \text { SE125P-TR8 } \end{aligned}$ | SE125P-TR10 | $11 / 4$ | $\begin{gathered} .750 \text { to } 1.50 \\ (19.1) \text { to }(38.1) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline 50(15.2) \\ & 200(61.0) \\ & \hline \end{aligned}$ | 4 Reels 2 Reels |
| $\begin{aligned} & \text { SE150P-LR0 } \\ & \text { SE150P-TR0 } \end{aligned}$ | $\begin{aligned} & \text { SE150P-LR8 } \\ & \text { SE150P-TR8 } \end{aligned}$ | - ${ }^{\text {SE150P-TR10 }}$ | $11 / 2$ | $\begin{gathered} 1.00 \text { to } 2.25 \\ (25.4) \text { to }(57.2) \end{gathered}$ | $\begin{aligned} & \hline 50(15.2) \\ & 200(61.0) \\ & \hline \end{aligned}$ | 4 Reels 2 Reels |
| SE175P-TRO | - | - | $13 / 4$ | $\begin{gathered} 1.25 \text { to } 2.75 \\ (31.8) \text { to }(69.8) \end{gathered}$ | 200 (61.0) | 2 Reels |

Flame Retardant Braided Expandable Sleeving

## Braided Expandable Sleeving - <br> Flame Retardant Polyethylene Terephthalate - PET



- Provides continuous abrasion resistance for wires, cables and tubing
- Lightweight, durable protection
- Highly flexible open weave will not trap heat or humidity
- Rated for use up to $257^{\circ} \mathrm{F}\left(125^{\circ} \mathrm{C}\right)$
- Allows for use with irregular shapes
- Self extinguishing, meets UL VW-1
- Stock colors: Black or gray with white tracer, or in white with black tracer to identify flame retardant material
- See bottom of this page for cutting tools


## Flame Retardant

| Part Number Black | Part Number Gray | Part Number White | $\begin{aligned} & \text { Nominal } \\ & \text { I.D. } \\ & \text { in. }(\mathrm{mm}) \end{aligned}$ | Nominal Diameter Range in. (mm) | Std. <br> Pkg. Qty. Feet (m) | Std. Ctn. Qty. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SE12PFR-TRO <br> SE12PFR-MRO | SE12PFR-TR8 SE12PFR-MR8 | SE12PFR-MR10 | 1/8 | $\begin{aligned} & .094 \text { to } .250 \\ & (2.4) \text { to }(6.4) \\ & \hline \end{aligned}$ | $\begin{gathered} 200(61.0) \\ 1000(304.8) \end{gathered}$ | 4 Reels 2 Reels |
| SE25PFR-TRO SE25PFR-MRO | SE25PFR-TR8 SE25PFR-MR8 | SE25PFR-MR10 | 1/4 | $\begin{aligned} & .125 \text { to } .375 \\ & \text { (3.2) to (9.5) } \end{aligned}$ | $\begin{gathered} 200(61.0) \\ 1000(304.8) \\ \hline \end{gathered}$ | 4 Reels <br> 2 Reels |
| SE38PFR-TRO SE38PFR-MR0 | SE38PFR-TR8 SE38PFR-MR8 | SE38PFR-MR10 | 3/8 | $\begin{aligned} & .188 \text { to } .625 \\ & \text { (4.7) to (15.9) } \\ & \hline \end{aligned}$ | $\begin{gathered} 200(61.0) \\ 1000(304.8) \\ \hline \end{gathered}$ | 4 Reels <br> 2 Reels |
| SE50PFR-CR0 SE50PFR-DR0 | SE50PFR-CR8 SE50PFR-DR8 | SE50PFR-DR10 | 1/2 | $\begin{aligned} & .250 \text { to } .750 \\ & \text { (6.4) to (19.1) } \end{aligned}$ | $\begin{gathered} 100(30.5) \\ 500(152.4) \end{gathered}$ | 4 Reels <br> 2 Reels |
| SE75PFR-CRO SE75PFR-DRO | SE75PFR-CR8 SE75PFR-DR8 | SE75PFR-DR10 | 3/4 | $\begin{gathered} .500 \text { to } 1.25 \\ (12.7) \text { to }(31.8) \end{gathered}$ | $\begin{gathered} 100(30.5) \\ 500(152.4) \\ \hline \end{gathered}$ | 4 Reels <br> 2 Reels |
| SE125PFR-LRO SE125PFR-TR0 | SE125PFR-LR8 | - ${ }^{\text {SE125PFR-TR10 }}$ | $11 / 4$ | $\begin{gathered} .750 \text { to } 1.50 \\ (19.1) \text { to }(38.1) \\ \hline \end{gathered}$ | $\begin{gathered} 50(15.2) \\ 200(61.0) \\ \hline \end{gathered}$ | 4 Reels <br> 2 Reels |
| SE150PFR-LR0 SE150PFR-TR0 | SE150PFR-LR8 | - ${ }^{\text {SE150PFR-TR10 }}$ | $11 / 2$ | $\begin{gathered} 1.00 \text { to } 2.25 \\ (25.4) \text { to }(57.2) \\ \hline \end{gathered}$ | $\begin{gathered} 50(15.2) \\ 200(61.0) \end{gathered}$ | 4 Reels 2 Reels |
| SE175PFR-TR0 | - | - | $13 / 4$ | $\begin{gathered} 1.25 \text { to } 2.75 \\ (31.8) \text { to }(69.8) \\ \hline \end{gathered}$ | 200 (61.0) | 2 Reels |

*Order number of reels required.

## Tooling Head (HKBS)

Sleeving Cutter/End Sealer Blade -
Used with popular soldering guns to cut and seal sleeving.


| Part Number | Description | Std. <br> Pkg. <br> Qty |
| :--- | :--- | :---: |
| HKBS | For dual straight shank soldering guns with .500" spacing <br> Typical Guns: WELLER straight shank Model 8200; WEN <br> Model 199 or 100 | 1 |

[^9]Bench Mount Cutter/ End Sealer
Available Directly from Manufacturer


Pearson Industries
P.O. Box 36

Prattville, AL 36067
(334) 365-5416

## PANDUIT ${ }^{\oplus}$ Flammability Tests and Classifications

Abrasion Protection Products Flammability Tests and Classifications


- A number of test procedures have been developed which can be used for the evaluation and comparison of various materials to support combustion
- Review the following classifications to find which category is designed to suit your abrasion and protection applications


## UL94 VERTICAL BURNING TEST

Test samples of material, with dimension $125 \pm 5 \mathrm{~mm}$ by $13.0 \pm 5 \mathrm{~mm}$ and provided in the minimum and maximum thickness of the intended end use product, are tested in an unconditioned (as manufactured) state and in a conditioned state ( 7 days at $168 \mathrm{~F}^{\circ}, 75^{\circ} \mathrm{C}$ ). The test requires the placement of a precisely controlled flame under a vertically supported specimen for a 10 second period. The flame is removed and the duration of flaming is recorded. If the flame extinguishes, the specimen is immediately subjected to a second 10 second ignition period. Duration of flaming is again recorded. A piece of $100 \%$ cotton is placed under the specimen. Also observed and documented is if the sample drips flaming particles that ignite the cotton indicator below.

Materials Classification

| Criteria Conditions | V-0 | V-1 | V-2 |
| :--- | :---: | :---: | :---: |
| Afterflame time for each individual specimen $\mathrm{t}_{1}$ or $\mathrm{t}_{2}$ | $\leq 10 \mathrm{~s}$ | $\leq 30 \mathrm{~s}$ | $\leq 30 \mathrm{~s}$ |
| Total afterflame time for any condition set ( $\mathrm{t}_{1}$ plus $\mathrm{t}_{2}$ for the <br> 5 specimens) | $\leq 50 \mathrm{~s}$ | $\leq 250 \mathrm{~s}$ | $\leq 250 \mathrm{~s}$ |
| Afterflame plus afterglow time for each individual specimen <br> after the second flame application $\left(\mathrm{t}_{2}+\mathrm{t}_{3}\right)$ | $\leq 30 \mathrm{~s}$ | $\leq 60 \mathrm{~s}$ | $\leq 60 \mathrm{~s}$ |
| Afterflame or afterglow of any specimen up to the <br> holding clamp | No | No | No |
| Cotton indicator ignited by flaming particles or drops | No | No | Yes |


| $t_{1}$ | Afterflame time after first flame application |
| :---: | :---: |
| $t_{2}$ | Afterflame time after flame application |
| $t_{3}$ | Afterglow time after second flame application |

## MATERIALS CLASSIFIED UL-94 HB

- Specimens shall have a maximum burn rate of $<1.5^{\prime \prime} / \mathrm{min}$ over $3^{\prime \prime}$ of thickness of 0.120 " to $0.5^{\prime \prime}$
- Specimens shall have a maximum burn rate of $<3.0^{\prime \prime} / \mathrm{min}$ over $3^{\prime \prime}$ for a thickness less than $0.120^{\prime \prime}$


## UL224 VERTICAL WIRE FLAME TEST

Samples of fully recovered tubing are placed over a length of fine spring steel music wire. The test requires the precise placement of a controlled flame that contacts the heat shrink tubing. The flame is applied in five fifteen second intervals with a time period between applications. If the flame extinguishes immediately after the first flame removal, subsequent flame applications are made to the tubing. Duration of specimen flaming is noted. A piece of surgical cotton is placed under the specimen. If a flaming or glowing piece of tubing drips and ignites the cotton, this is also noted.

MATERIALS CLASSIFIED AS VW-1 SHALL:

- Not flame or glow longer than 60 seconds following any of the five applications of the flame
- Not ignite or damage more than $25 \%$ of kraft paper flag that is placed around the top of the tubing
- Not have any specimens which drip flaming particles and ignite the surgical cotton located $91 / 2$ " below the test specimen.

| Abrasion <br> Protection <br> Materials <br> Technical Data |  | Ratings and Approvals |  |  | Physical Properties |  |  |  | Chemical Resistance |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | $\frac{0}{0}$ |  |
|  | Natural Polyethylene Lowest cost material for indoor use up to $122^{\circ} \mathrm{F}$. Natural is available in all sizes. Colors are available in $1 / 4$ " and $1 / 2^{\prime \prime}$. | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \text { to } \\ 122^{\circ} \mathrm{F} \\ \left(50^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ | HB | $\begin{gathered} 239^{\circ} \mathrm{F} \\ \left(115^{\circ} \mathrm{C}\right) \end{gathered}$ | 22 mg | $\begin{aligned} & .91- \\ & .93 \end{aligned}$ | $\begin{array}{\|c\|} \hline 1400 \\ \text { (D638) } \end{array}$ | .01\% | Resistant below $140^{\circ} \mathrm{F}$ ( $60^{\circ} \mathrm{C}$ ) except to chlorinated solvents | Resistant | Resistant except to oxidizing acids | Some <br> Discoloration |
|  | Weather Resistant Polyethylene This material has the same properties as natural polyethylene, and also has additives which allow it to resist the effects of ultraviolet light and acid rain in an outdoor environment. This product is available in black only. | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \text { to } \\ 122^{\circ} \mathrm{F} \\ \left(50^{\circ} \mathrm{C}\right) \end{gathered}$ | HB | $\begin{gathered} 239^{\circ} \mathrm{F} \\ \left(115^{\circ} \mathrm{C}\right) \end{gathered}$ | 20 mg | $\begin{aligned} & .93- \\ & 1.09 \end{aligned}$ | $\begin{array}{\|c\|} \hline 2000 \\ \text { (D638) } \end{array}$ | .03\% | Resistant below $140^{\circ} \mathrm{F}$ ( $60^{\circ} \mathrm{C}$ ) except to chlorinated solvents | Resistant | Resistant except to oxidizing acids | No <br> Discoloration |
|  | Fire Resistant Polyethylene UL94-V2 Rating <br> This material is self extinguishing and passes the UL94 flame retardant test with a V2 rating. | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \text { to } \\ 122^{\circ} \mathrm{F} \\ \left(50^{\circ} \mathrm{C}\right) \\ \hline \end{gathered}$ | V-2 | $\begin{gathered} 239^{\circ} \mathrm{F} \\ \left(115^{\circ} \mathrm{C}\right) \end{gathered}$ | 27 mg | $\begin{aligned} & 1.00- \\ & 1.30 \end{aligned}$ | $\begin{array}{\|c\|} \hline 1400 \\ \text { (D638) } \end{array}$ | .02\% | Resistant below $140^{\circ} \mathrm{F}$ $\left(60^{\circ} \mathrm{C}\right)$ except to chlorinated solvents | Resistant | Resistant except to oxidizing acids | Some <br> Discoloration |
|  | Flame Retardant Polyethylene UL94-V0 Rating This material is self extinguishing and passes the UL94 flame retardant test with a V0 rating. | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \text { to } \\ 194^{\circ} \mathrm{F} \\ \left(90^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { UL94 } \\ \text { V-0 } \end{array}$ | $\begin{gathered} 270^{\circ} \mathrm{F} \\ \left(132^{\circ} \mathrm{C}\right) \end{gathered}$ | 22 mg | 1.15 | $\begin{array}{\|c\|} \hline 1,500 \\ \text { (D638) } \\ \hline \end{array}$ | .02\% | Resistant except to halogenated hydrocarbons | Resistant | Resistant | Resistant Some Discoloration |
|  | NyIon 6.6 <br> Nylon is strong, durable, selfextinguishing material for indoor use up to $149^{\circ} \mathrm{F}$. It offers a combination of lightweight, wide temperature range, and high abrasion resistance. This material is suitable for applications where heavy vibration or stress exists on the wiring or tubing. | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \text { to } \\ 149^{\circ} \mathrm{F} \\ \left(65^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { UL94 } \\ \text { V-2 } \end{array}$ | $\begin{gathered} 505^{\circ} \mathrm{F} \\ \left(263^{\circ} \mathrm{C}\right) \end{gathered}$ | 7 mg | $\begin{aligned} & \hline 1.13- \\ & 1.15 \end{aligned}$ | $\begin{array}{\|l} \hline 12,400 \\ \text { (D638) } \end{array}$ | 1.2\% | Resistant except to halogenated hydrocarbons | Resistant | Not recommended |  <br> Resistant <br> No <br> Discoloration |
|  | Weather Resistant Nylon This material has the same properties as natural Nylon and also has additives which allow it to resist the effects of ultraviolet light in an outdoor environment. This product is available in black only. | $\begin{gathered} -40^{\circ} \mathrm{F} \\ \left(-40^{\circ} \mathrm{C}\right) \\ \text { to } \\ 149^{\circ} \mathrm{F} \\ \left(65^{\circ} \mathrm{C}\right) \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { UL94 } \\ \text { V-2 } \end{array}$ | $\begin{gathered} 505^{\circ} \mathrm{F} \\ \left(263^{\circ} \mathrm{C}\right) \end{gathered}$ | 7 mg | $\begin{aligned} & \hline 1.13- \\ & 1.15 \end{aligned}$ | $\begin{array}{\|l\|} \hline 12,000 \\ \text { (D638) } \end{array}$ | 1.2\% | Resistant except to halogenated hydrocarbons | Resistant | Not recommended | Resistant No Discoloration |
|  | TEFLON $\ddagger$ <br> This material is a non-flammable, fluorocarbon resin material. Suitable for use in any application (including nuclear containment). It is rated up to $356^{\circ} \mathrm{F}$. <br> Color: Opaque to Translucent | $\begin{array}{\|c} \hline-400^{\circ} \mathrm{F} \\ \left(-240^{\circ} \mathrm{C}\right) \\ \text { to } \\ 500^{\circ} \mathrm{F} \\ \left(260^{\circ} \mathrm{C}\right) \end{array}$ | $\begin{array}{\|c\|} \hline \text { UL94 } \\ \text { V-0 } \end{array}$ | $\begin{gathered} 648^{\circ} \mathrm{F} \\ \left(342^{\circ} \mathrm{C}\right) \end{gathered}$ | 7 mg | $\begin{aligned} & \hline 2.13- \\ & 2.22 \end{aligned}$ | $\begin{array}{\|c\|} \hline 3000 \\ \text { (D876) } \end{array}$ | .01\% | Resistant | Resistant | Resistant | Resistant No Discoloration |
|  | Polyethylene Terephthalate (PET) This material is a thermoplastic polyester material designed for indoor applications. It is rated for use up to $257^{\circ} \mathrm{F}$ and will tolerate short-term exposure up to $446^{\circ}$ F. Colors: Black, White and Gray | $\begin{array}{\|c\|} \hline-94^{\circ} \mathrm{F} \\ \left(-70^{\circ} \mathrm{C}\right) \\ \text { to } \\ 257^{\circ} \mathrm{F} \\ \left(125^{\circ} \mathrm{C}\right) \end{array}$ | $\begin{gathered} \text { UL94 } \\ \text { HB } \end{gathered}$ | $\begin{gathered} 500^{\circ} \mathrm{F} \\ \left(260^{\circ} \mathrm{C}\right) \end{gathered}$ | - | 1.31 | $\begin{gathered} \hline 100,00 \\ 0 \\ \text { (D876) } \end{gathered}$ | .08\% | Resistant to some solvents | Resistant to most weak bases | Resistant | Resistant <br> No <br> Discoloration |
| IDED EXPANDA | Flame Ret. Polyethylene Terephthalate (PET) This material is a self-extinguishing thermoplastic polyester that can be used indoors. It is also rated for use up to $257^{\circ} \mathrm{F}$ and will tolerate short-term exposure up to $446^{\circ} \mathrm{F}$. It is provided with tracers to identify the flame retardant material. | $\begin{array}{\|c\|} \hline-94^{\circ} \mathrm{F} \\ \left(-70^{\circ} \mathrm{C}\right) \\ \text { to } \\ 257^{\circ} \mathrm{F} \\ \left(125^{\circ} \mathrm{C}\right) \end{array}$ | $\begin{array}{\|c\|} \hline \text { UL } \\ 224 \\ \mathrm{VW}-1 \end{array}$ | $\begin{gathered} 608^{\circ} \mathrm{F} \\ \left(320^{\circ} \mathrm{C}\right) \end{gathered}$ | - | 1.39 | $\begin{array}{\|c} \hline 100,00 \\ 0 \\ \text { (D876) } \end{array}$ | .08\% | Resistant to some solvents | Resistant to most weak bases | Resistant | Resistant No Discoloration |

NOTE: Typical operating temperature ranges are extended based on end use application and specific environmental tests.
$\ddagger$ TEFLON or equivalent fluorocarbon PTFE is used. Teflon is the registered trademark of E. I. DuPont de Nemours Co.

| Abrasion <br> Protection <br> Materials <br> Technical Data |  | Ratings and Approvals |  |  | Physical Properties |  |  |  | Chemical Resistance |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | $\frac{0}{0}$ |  |
|  | Black Polyethylene <br> Lowest cost material is for use up to $122^{\circ}$ F. Other colors may be available. |  | $\begin{gathered} \text { UL94 } \\ \text { HB } \end{gathered}$ | - | - | $\begin{aligned} & .926- \\ & .940 \end{aligned}$ | $\begin{array}{\|c\|} \hline 1500 \\ \text { (D638) } \end{array}$ | - | Resistant except to halogenated hydrocarbons | Resistant | Resistant | $\begin{array}{\|c\|} \hline \\ \hline \text { Resistant } \\ \text { No } \\ \text { Discoloration } \end{array}$ |
|  | Nylon 6 <br> Nylon is a strong, impact modified, heat stabilized, durable high abrasion resistant material. |  | $\begin{gathered} \text { UL94 } \\ \text { HB } \end{gathered}$ | $\begin{gathered} 410^{\circ} \mathrm{F} \\ \left(211^{\circ} \mathrm{C}\right) \end{gathered}$ | - | $\begin{aligned} & \hline 1.06- \\ & 1.16 \end{aligned}$ | $\begin{array}{\|l\|} \hline 8000 \\ (\mathrm{D} 638) \end{array}$ | 1.3\% | Resistant except to halogenated hydrocarbons | Resistant | Not recom- mended | $\begin{array}{\|c\|} \hline \text { Resistant } \\ \text { No } \\ \text { Discoloration } \\ \hline \end{array}$ |
|  | PVC Non-Shrink Tubing This material provides insulation and protection for continuous use at temperatures $-4^{\circ} \mathrm{F}\left(-20^{\circ} \mathrm{C}\right)$ to $221^{\circ} \mathrm{F}\left(105^{\circ} \mathrm{C}\right)$. | $-4^{\circ} \mathrm{F}$ $\left(-20^{\circ} \mathrm{C}\right)$ to $221^{\circ} \mathrm{F}$ $\left(105^{\circ} \mathrm{C}\right)$ | $\begin{array}{\|c\|} \hline \text { UL } \\ 224 \\ V W-1 \end{array}$ | - | - | 1.35 | $\begin{array}{\|l\|} \hline 2500 \\ \text { (D876) } \end{array}$ | - | Resistant except to aromatic hydrocarbons, ketones and esters | Resistant | Resistant | $\begin{array}{\|c\|} \hline \text { Resistant } \\ \text { No } \\ \text { Discoloration } \\ \hline \end{array}$ |
|  | Natural Polyethylene <br> Lowest cost material for indoor use up to $122^{\circ} \mathrm{F}$. Natural is available in all sizes. | $\begin{array}{\|c} -40^{\circ}{ }^{\circ} \\ \left(-40^{\circ}\right) \\ 10 \\ 122^{\circ} \mathrm{F} \\ \left(50^{\circ} \mathrm{C}\right) \\ \hline \end{array}$ | HB | $\begin{aligned} & 239^{\circ} \mathrm{F} \\ & \left(1115^{\circ}\right) \end{aligned}$ | 22 mg | $.91^{-}$ | $\begin{array}{\|c\|} \hline 1400 \\ \text { (D638) } \end{array}$ | .01\% | Resistant <br> below $140^{\circ} \mathrm{F}$ <br> $\left(60^{\circ} \mathrm{C}\right)$ except <br> to chlorinated <br> solvents | Resistant | Resistant <br> except to <br> oxidizing <br> acids | $\begin{array}{\|c\|} \hline \text { Some } \\ \text { Discoloration } \\ \hline \end{array}$ |
|  | Weather Resistant Polyethylene This material has the same properties as natural polyethylene, and also has additives which allow it to resist the effects of ultraviolet light and acid rain in an outdoor environment. This product is available in black only. | $-40^{\circ} \mathrm{F}$ $\left(-40^{\circ} \mathrm{C}\right)$ to $122^{\circ} \mathrm{F}$ $\left(50^{\circ} \mathrm{C}\right)$ | HB | $\begin{gathered} 239^{\circ} \mathrm{F} \\ \left(115^{\circ} \mathrm{C}\right) \end{gathered}$ | 20 mg | $\begin{array}{r} \hline .93- \\ 1.09 \end{array}$ | $\begin{array}{\|l\|} \hline 2000 \\ \text { (D638) } \end{array}$ | .03\% | Resistant below $140^{\circ} \mathrm{F}$ ( $60^{\circ} \mathrm{C}$ ) except to chlorinated solvents | Resistant | $\begin{array}{\|c} \text { Resistant } \\ \text { except to } \\ \text { oxidizing } \\ \text { acids } \end{array}$ | $\begin{array}{\|c\|} \hline \text { No } \\ \text { Discoloration } \\ \hline \end{array}$ |
|  | Flame Retardant Polyethylene UL94-V0 Rating <br> This material is self extinguishing and passes the UL94 flame <br> retardant test with a V0 rating | $-40^{\circ} \mathrm{F}$ <br> $\left(-40^{\circ} \mathrm{C}\right)$ <br> 10 <br> $140^{\circ} \mathrm{F}$ <br> $\left(60^{\circ} \mathrm{C}\right)$ | V-0 | $\begin{gathered} 270^{\circ} \mathrm{F} \\ \left(132^{\circ} \mathrm{C}\right) \end{gathered}$ | 22 mg | 1.38 | 1200 | .02\% | Resistant below $140^{\circ} \mathrm{F}$ $\left(60^{\circ} \mathrm{C}\right)$ except to chlorinated solvents | Resistant | $\begin{array}{\|c} \text { Resistant } \\ \text { except to } \\ \text { oxididing } \\ \text { acids } \end{array}$ | Some Discoloration |
|  | Nylon <br> Nylon is strong, durable, selfextinguishing material for indoor use up to $149^{\circ} \mathrm{F}$. It offers a combination of lightweight, wide temperature range, and high abrasion resistance. This material is suitable for applications where heavy vibration or stress exists on the wiring or tubing. | $-40^{\circ} \mathrm{F}$ <br> $\left(-400^{\circ} \mathrm{C}\right)$ <br> $149^{\circ} \mathrm{F}$ <br> $\left.145^{\circ} \mathrm{C}\right)$ | V-2 | $\begin{gathered} 491^{\circ} \mathrm{F} \\ \left(255^{\circ} \mathrm{C}\right) \end{gathered}$ | 7 mg | $\begin{aligned} & 1.03- \\ & 1.15 \end{aligned}$ | $\begin{aligned} & \hline 12,400 \\ & \text { (D638) } \end{aligned}$ | 1.5\% | Resistant except to phenols and formic acid | Resistant | Resistant to most weak acids | $\begin{array}{\|c\|} \hline \text { No } \\ \text { Discoloration } \\ \hline \end{array}$ |

NOTE: Typical operating temperature ranges are extended based on end use application and specific environmental tests.

Abrasion Protection Products Technical Data
The approximate required length of spiral wrap based on the bundle diameter can be determined by using the graphs below; they show length required (in feet) per foot of bundle:


## PANDUIT ${ }^{\text {® }}$ Abrasion Protection Bulk Packaging

## Bulk Package Part Numbers

The following is an alpha-numeric cross reference of Standard Package Wiring Abrasion Protection parts with the corresponding Bulk Package part numbers:

| Standard Part No. |  |
| :--- | :--- |
| Culk Part No. |  |
| CLT25N-C630 |  |
| CLT25N-10M630 |  |
| CLT35F-2C0 | CLT35F-7M20 |
| CLT38F-C20 | CLT38F-5M20 |
| CLT38N-C630 | CLT38N-5M630 |
| CLT50F-C20 | CLT50F-4M20 |
| CLT50N-C630 | CLT50N-4M630 |
| CLT62F-C20 | CLT62F-2.5M20 |
| CLT62N-C630 | CLT62N-2.5M630 |
| CLT75F-C20 | CLT75F-2M20 |
| CLT75N-C630 | CLT75N-2M630 |
| CLT100F-C20 | CLT100F-125M20 |
| CLT100N-C630 | CLT100N-125M630 |
| CLT125F-L20 | CLT125F-.75M20 |
| CLT125N-L630 | CLT125N-.75M630 |
|  | T |
| T12F-C | T12F-D |
| T12N-C | T12N-D |
| T19N-C | T19N-M |
| T25F-C | T25F-M |
| T25F-C0 | T25F-M0 |
| T25FR-C | T25FR-M |
| T25FR-C20 | T25FR-M20 |
| T25N-C | T25N-M |
| T25N-C0 | T25N-M0 |
| T25R-C | T25R-M |
| T25R-C20 | T25R-M20 |
|  |  |


| Standard Part No. | Bulk Part No. |
| :--- | :--- |
| T38F-C | T38F-TL |
| T38F-C0 | T38F-TL0 |
| T38FR-C | T38FR-TL |
| T38N-C | T38N-TL |
| T38R-C | T38R-TL |
| T50F-C | T50F-TL |
| T50F-C0 | T50F-TL0 |
| T50F-C4 | T50F-TL4 |
| T50FR-C | T50FR-TL |
| T50N-C | T50N-TL |
| T50N-C0. | T50N-TL0 |
| T50R-C | T50R-TL |
| T62F-C | T62F-TL |
| T62F-C0 | T62F-TL0 |
| T75F-C | T75F-T |
| T75F-C0 | T75F-T0 |
| T75FR-C | T75FR-T |
| T75N-C | T75N-T |

## Pan-Term ${ }^{\circledR}$ Terminals, Disconnects and Splices



Designed and manufactured for fast assembly, long, reliable performance...

- Funnel entry available on vinyl and nylon insulated terminals and disconnects
- Made of electrolytically refined copper to provide optimum combination of crimp forming properties and low resistance, high conductivity terminations
- Offered in various types including rings, forks, locking forks and short locking forks
- Available sizes from 26 to 2 AWG and stud diameters from \#2 to $1 / 2^{\prime \prime}$
- Disconnects are available in many styles including fully insulated. Splices and wire joints provide permanent, reliable connections
- Wide assortment of manual, controlled cycle, battery operated and pneumatic crimping tools which give you reliable connections at a lower installed cost

Ask for Pan-Term ${ }^{\oplus}$ Terminal, Disconnects and Splices/ Reel Smart ${ }^{\text {tm }}$ Termination Catalog - SA-TM09CB01A

Reel Smart ${ }^{\text {Tm }}$ Continuously Molded Reel-Fed Terminals, Disconnects and Splices

"Reel" productivity assures high volume production at significant savings...

- ONE TECHNOLOGY, one solution for continuously molded Terminals, Butt Splices and Disconnects, including Fully Insulated Right Angle Female Disconnects and Pre-Assembled Locking Disconnects
- The Reel Smart ${ }^{\text {TM }}$ Termination System for installing PANDUIT ${ }^{\oplus}$ continuously molded products provides the best solution for quality, reliable, high volume terminations
- This patented system offers an array of technical enhancements designed to dramatically reduce set-up time and the amount of downtime traditionally incurred with alternate systems
- Single, patented application terminates entire product line
- Applicators compatible with automatic wire processing machines and other manufacturer's presses
Ask for Pan-TERM ${ }^{\oplus}$ Terminal, Disconnects and Splices/ Reel Smart ${ }^{\text {TM }}$ Termination Catalog - SA-TM09CB01A


## Identification and Labeling Solutions



## Network Connectivity Systems



- Labeling Software

Labeling programs available for wire marking, component identification and safety markers and tags

- Preprinted Markers

Available in books, cards, tape, slip-on and clip-on
formats for fast, convenient identification of wires,
Available in books, cards, tape, slip-on and clip-on
formats for fast, convenient identification of wires, cables and other industrial applications

- Lockout/Tagout and Safety Lockout devices, training materials, tags and safety markers for OSHA safety standard compliance

Ask for Identification Solutions Catalog SA101N315C-ID
PANDUIT ${ }^{\oplus}$ offers a complete line of industrial Identification Solutions...

- Computer Printable Labels

Thermal transfer, laser, ink jet and dot-matrix labels available in a wide variety of sizes and industrial materials

- Printers

Versatile hand-held printers for on-site labeling and desktop thermal transfer printers for medium to high volume applications

The unique PAN-Net ${ }^{\circledR}$ Network Connectivity System provides high performance solutions with Future Ready features for system upgradability. Lowest installed cost solutions are available for both the enterprise and service provider markets...

- Breadth of Product Offering

PANDUIT ${ }^{\oplus}$ supplies copper and fiber optic connectivity for reliable data, video and voice transmissions, end-to-end cable management for maximum protection and system integrity as well as standards compliance pathway and outlet products for maximum performance

- Modular

All PANDUIT ${ }^{\oplus}$ MINI-CoM ${ }^{\circledR}$ copper and fiber optic modules snap in and out of all $M I N I-C O M{ }^{\circledR}$ faceplates, surface mount boxes, patch panels and multimedia adapter panels

PAN-WAY ${ }^{\circledR}$ Surface Raceway System


- Advanced Designs
- Aesthetics

The superior $P_{A N-W A Y}{ }^{\circledR}$ Surface Raceway System offers the flexibility of accepting PANDUIT ${ }^{\circledR}$ communication and power devices in addition to devices offered from a wide range of manufacturers. The Pan-WAY ${ }^{\oplus}$ system has become the preferred routing system for communication and electrical specifiers and contractors... Among other features, all PANDUIT ${ }^{\circledR}$ cable routing pathways are designed to maintain the proper bend radius control for high performance copper and fiber optic cabling

Unlike raceway systems of the past, PANDUIT ${ }^{\oplus}$ perimeter raceway has been designed with as much regard to form as function

- Superior Termination Solutions PANDUIT® cable routing solutions provide you freedom of choice when selecting your data and electrical outlets. Most PANDUIT ${ }^{\oplus}$ raceway systems accept both NEMA Standard "Screw-On" faceplates as well as superior PANDUIT ${ }^{\circledR}$ Snap-On faceplates for PANDUIT ${ }^{\circledR}$ Connectivity
- Complete Systems

All PANDUIT ${ }^{\circledR}$ systems include a full complement of fittings and accessories that allow a complete installation of a single system or allow different PANDUIT ${ }^{\oplus}$ raceway systems to be used together
Ask for PAN-WAY Surface Raceway Catalog SA 101 N60B-LP

## Panduct ${ }^{\circledR}$ Wiring Duct - The Original Wiring Duct



PANDUIT ${ }^{\circledR}$ offers the most comprehensive and complete line of wiring duct for use in control panels and other OEM and MRO applications. PANDUIT® ${ }^{\circledR}$ provides a large selection of sizes, colors, styles and materials so our customers can meet their specific application requirements...

- PANDUIT ${ }^{\oplus}$ Exclusive rounded edges will not cut installers' hands or wiring insulation
- Non-slip cover will not slip when installed on duct base
- Flush cover design holds $10-12 \%$ more wires than traditional duct designs
- Double scoreline saves installation time and ultimately lowers installed cost
- Restricted slot design retains wire in slot for fast, easy wire installation or removal
Ask for PANDUCT ${ }^{\oplus}$ Wiring Duct Catalog SA-WDCB05



## For applications in sizes \#14 AWG through 1000 kcmil...

- Compression Connectors Provide reliable permanently crimped connections in sizes matched for each conductor size. They are easy to install and provide a simplified means of inspection of a proper crimp
- Custom Lugs

PANDUIT ${ }^{\oplus}$ offers a wide variety of dimensional choices for \#8 AWG to 250 kcmil copper compression lugs

- Mechanical Connectors Economical, reusable connectors in many styles in both copper and dual rated aluminum types
- Power Connector Tooling Includes hand operated controlled-cycle, mechanical and hydraulic crimping tools. Also available are the Uni-DIE ${ }^{\text {m }}$ CT-980 dieless tool and revolutionary CT-2001 battery operated crimping tool

Ask for the Termination Solutions Catalog SA-TMCB02

## PANDUIT ${ }^{\oplus}$ offers a variety of custom programs designed to permanently identify PANDUIT ${ }^{\circledR}$ products for your specific application...



- Custom Marking

All PANDUIT ${ }^{\oplus}$ stainless steel and brass products (ties, strapping, marker plates and tags) can be custom marked by one of two precise computer controlled systems (Laser or Embosser)
These systems provide sharp, crisp, high quality legends. A variety of marking device accessories is also available for permanent identification of PANDUIT ${ }^{\circledR}$ stainless steel and brass products

For more information call 866-405-6659

- Hot Stamping

PANDUIT ${ }^{\oplus}$ nylon cable ties, marker ties and marker plates can be custom identified to meet your specific requirements, including sequential numbering and specialized company logos (see page 52).

For more information call 866-405-6660


## PANDUIT ${ }^{\text {® }}$ Alphanumeric Part Number Index

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[^0]:    NOTE 1: For best results, use tool tensions at the low end of the adjustment range, i.e. Std. Cable Ties installed at tool setting 5 to arrive at optimum installation tension.

[^1]:    ${ }^{* * *}$ TEFZEL is a registered trademark of E. I. DuPont de Nemours Co.

[^2]:    *Minimum 2" overlap required to achieve loop tensile rating (HLC, HLT, HLS, HLM series).
    **Available in -0 (Black) rated 18lbs. (80N).

[^3]:    *Anodized aluminum locks can only be marked by the laser system.

[^4]:    **Other character sizes available. For complete product information, specification or character information, contact 866-405-6659.

[^5]:    *Order the number of pieces required in multiples of standard package quantities.

[^6]:    Part number shown for PBMS-H25-C and PBMS-H25-C14is Standard Package Quantity.

[^7]:    Sizing information is based on the following wire types: MTW, THHN, THWN, TFN, THW, TW, TF, RHW, RH, RHH AND UL1015.
    THHN is the most common wire type.
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[^8]:    *Order the number of pieces required in multiples of standard package quantities.
    This material is not listed under military standard MS21266.

[^9]:    *Order number of blades required

