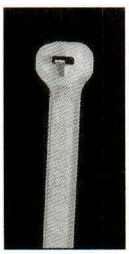
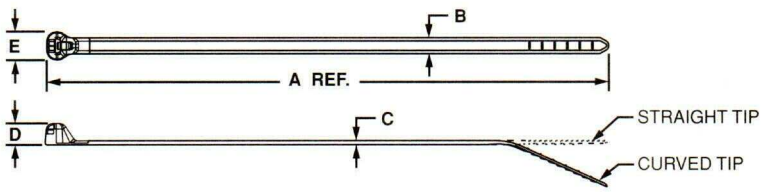
# DOME-TOP® BARB-TY® Nylon 6.6 Locking Cable Ties

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


Side View


Front View

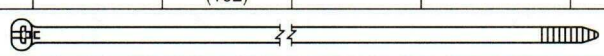



## MINIATURE CROSS SECTION



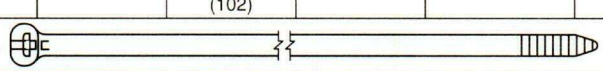
| Part Number† | Length A In. (mm) | Width B In. (mm) | Thickness C In. (mm) | Head Height D In. (mm) | Head Width E In. (mm) | Max. Bundle Dia. In. (mm) | Min. Loop Tensile Strength Lbs. (N) | Recommended PANDUIT® Installation Tool Part No. | Packaging* Std. Pkg. Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BT1M-C** | 4.0 (102) | .095 (2.4) | .036 (0.9) | .156 (4.0) | .172 (4.4) | .90 (23) | 18 (80) | GS2B, PPTS or STS2 | 100 | 1000 | 1000 | 50000 |
| **BT1.5M-C** | 6.3 (160) | | .046 (1.2) | | .182 (4.6) | 1.50 (38) | | | 100 | 1000 | 1000 | 25000 |
| **BT2M-C** | 7.9 (201) | | | | | 2.00 (51) | | | 100 | 1000 | 1000 | 25000 |
| **BT3M-C** | 11.1 (282) | | | | | 3.00 (76) | | | 100 | 1000 | 1000 | 10000 |
| **BT4M-C** | 14.2 (361) | | | | | 4.00 (102) | | | 100 | 1000 | 1000 | 10000 |

## INTERMEDIATE CROSS SECTION



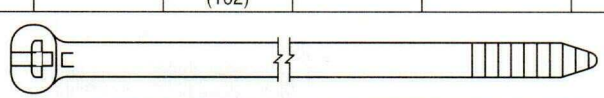
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BT1.5I-C** | 6.1 (155) | .141 (3.6) | .041 (1.0) | .185 (4.7) | .248 (6.3) | 1.50 (38) | 40 (178) | GS2B, PPTS or STS2 | 100 | 1000 | 1000 | 25000 |
| **BT2I-C** | 8.0 (203) | | | | | 2.00 (51) | | | 100 | 1000 | 1000 | 25000 |
| **BT3I-C** | 11.1 (282) | | .049 (1.2) | | | 3.00 (76) | | | 100 | 1000 | 1000 | 10000 |
| **BT4I-C** | 14.3 (363) | | | | | 4.00 (102) | | | 100 | 1000 | 1000 | 10000 |

## STANDARD CROSS SECTION



| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BT2S-C** | 8.0 (203) | .185 (4.7) | .045 (1.2) | .220 (5.6) | .320 (8.1) | 2.00 (51) | 50 (222) | GS2B, GS4H, PPTS, STS2 or STH2 | 100 | 1000 | 1000 | 10000 |
| **BT3S-C** | 12.0 (305) | | .052 (1.3) | | | 3.00 (76) | | | 100 | 1000 | 1000 | 10000 |
| **BT4S-C** | 15.1 (384) | | | | | 4.00 (102) | | | 100 | 1000 | 1000 | 5000 |

## LIGHT HEAVY CROSS SECTION (Straight Tip)

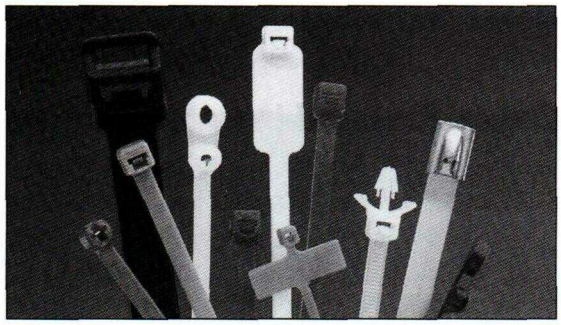


| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BT2LH-L** | 8.7 (221) | .275 (7.0) | .065 (1.7) | .320 (8.1) | .520 (13.2) | 2.00 (51) | 120 (534) | GS4H, GS4EH, PPTEH, STH2, or ST2EH | 50 | 500 | 250 | 2500 |
| **BT3LH-L** | 11.8 (300) | | | | | 3.00 (76) | | |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

*Order the Number of Pieces Required in Multiples of Packaging Quantities.
†Part Number shown for Standard Package Quantity. For Bulk Package Part Numbers, see pages 40-41.

For colors and other materials, see pages 36-39.
Most commonly used parts appear in **BOLD**.

# World Leader in Cable Ties and Wiring Accessories



Panduit is the world's largest 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 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 has the tool to help lower your total installed cost.

## Assured Quality

To help assure optimum quality, Panduit products are designed and manufactured to meet applicable international, UL, military and customer standards:

### ISO 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.

### Underwriters' Laboratories, Inc. (File E56854)

Most Panduit miniature, intermediate, standard, light heavy and heavy cross-section ties are Recognized or Listed by Underwriters' Laboratories in their Directory under the category "Wire Positioning Devices" (ZODZ(2)). Natural, pigmented and weather resistant cable ties are recognized for indoor use at temperatures up to 85°C (185°F). Heat stabilized ties are U.L. recognized for indoor use at temperatures up to 105°C (221°F).

### Military Specification: MIL-S-23190E

Military Specification MIL-S-23190E covers the actual test requirements on cable ties. Panduit cable ties, when tested, either meet or exceed the requirements of this specification.

### Nuclear Regulatory Commission

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 Corp's Quality Assurance program is designed to satisfy the 18 criteria set forth in NRC 10CFR50, Appendix B, Military Specification MIL-Q-9858A.

### Ford Motor Company

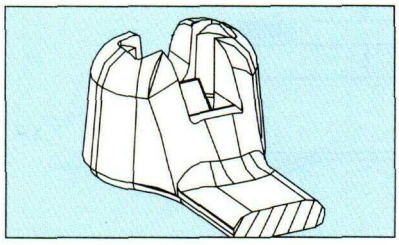
Panduit has received Q1 certification status from Ford Motor Company. Q1 certification enables all Panduit cable tie manufacturing facilities to approve all initial samples and production shipments of the parts destined for Ford operations throughout the world.

### International Approvals (Independent Testing Facilities)

German (VG) Military | Lloyd's Register of Shipping | RINA | Germanischer Lloyd | Nippon Kaiji Kyokai | Det Norske Veritas | Bureau Veritas

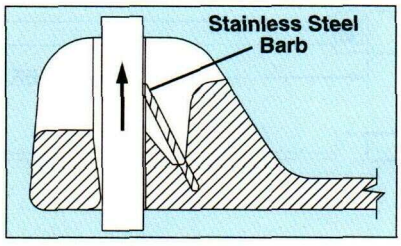
# DOME-TOP® BARB-TY® Cable Tie Features/Benefits

## 1. STAINLESS STEEL BARB



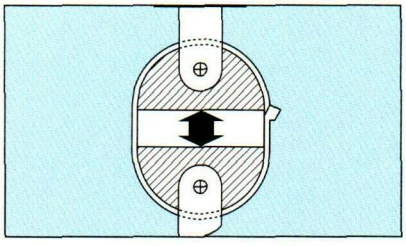
- Made of 316 corrosion resistant stainless steel
- Provides consistent performance and reliability for users who prefer a cable tie with a metal barb
- Infinitely adjustable for tight bundles through its entire bundle range

## 2. LOW THREADING FORCE



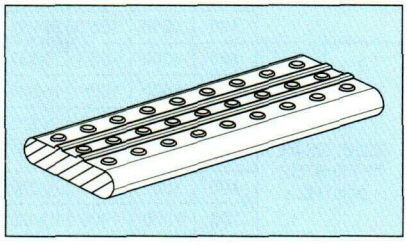

- Reduces installer fatigue
- Increases productivity

## 3. HIGH TENSILE STRENGTH



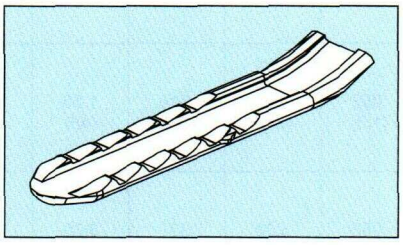
- Exceeds industry and military (MIL-S-23190E) standards
- Available in four loop tensile strengths from 18 lbs. (80N) to 120 lbs. (534N) to provide a wide selection

## 4. ANTI-SLIP STRAP BODY



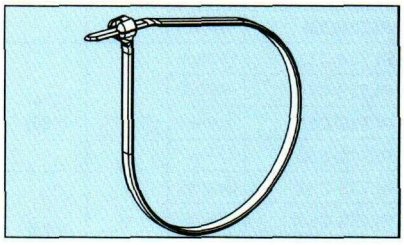
- Ribbed and stippled strap body prevents axial and lateral movement

## 5. FINGER TIP GRIP



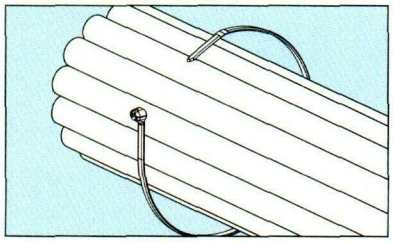
- Exclusively designed finger grip is available on all sizes of ***DOME-TOP BARB-TY*** Cable Ties to assure positive grip during threading of the tie

## 6. ANTI-SPRING BACK TIP



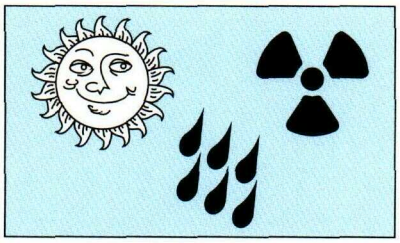
- Tip engages when inserted into head

## 7. CURVED TIP



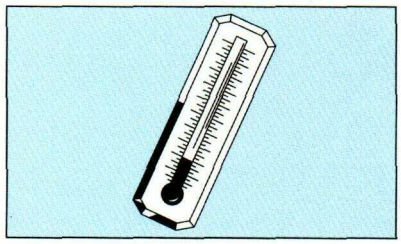
- Orients tip toward head to speed installation; lowers installed cost
- Faster initial threading
- Easier to pick up from flat surfaces

## 8. MATERIAL/SIZE AVAILABILITY



- Available in lengths from 4.0" to 30.7" 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

## 9. TEMPERATURE RATINGS



| | Natural 6.6 Nylon and Weather Resistant 6.6 Nylon | Heat Stabilized 6.6 Nylon |
|---|---|---|
| Max. | 185°F (85°C) | 221°F (105°C) |
| Min. | -40°F (-40°C) | -40°F (-40°C) |

# PANDUIT® Cable Tie Part Number System, Available Colors & Materials

## Part Number System (Example)

| PLT | 2 | S | — | C | |
|---|---|---|---|---|---|
| **Part Description**<br>***PANDUIT***<br>Locking<br>Tie (etc.) | **Size**<br>(Approximate<br>Bundle<br>Diameter) | **Cross-Section**<br>SM = Subminiature<br>M = Miniature<br>I = Intermediate<br>S = Standard<br>H = Heavy<br>LH = Light-Heavy<br>EH = Extra-Heavy | **Screw Hole Size**<br>(Clamp Ties Only)<br>-S4 = #4 (M2.5)<br>-S6 = #6 (M3)<br>-S8 = #8 (M4)<br>-S10 = #10 (M5)<br>-S25 = 1/4" (M6) | **Package Size**<br>X = 10<br>Q = 25<br>L = 50<br>C = 100<br>TL = 250<br>D = 500<br>M = 1000<br>MP = 1000 pc. ctn.<br>XMR = 2 reels/5000 ea.<br>DTP = 2 ctns./500 ea.<br>VMR = 2 reels/2500 ea.<br>4KR = 2 reels/2000 ea.<br>5K = strips/5000/pkg.<br>6K = strips/6000/pkg. | **Color**<br>(See Below)<br>Not all ties are available in all colors; refer to pages 37-39. |

## Military Cross Reference (MIL-S-23190E) to *PANDUIT*® Cable Ties

The items listed below are ***PANDUIT*** cable ties and tools which meet all requirements of the applicable Military Standards and are presently listed on the Qualified Products List of products qualified under Military Specification MIL-S-23190 (MIL-T-81306 for cable tie installation tools).

| | Current Mil. Std. Part No.* | *PAN-TY*® Part Number* | *DOME-TOP*® *BARB-TY*® Part Number* |
|---|---|---|---|
| CABLE TIES | MS3367-1-* | PLT2S | BT2S |
| | MS3367-2-* | PLT4S | BT4S |
| | MS3367-3-* | PLT4H | BT4LH |
| | MS3367-4* | PLT.7M | — |
| | MS3367-4-* | PLT1M | BT1M |
| | MS3367-5-* | PLT1.5I | BT1.5I |
| | MS3367-6-* | PLT8LH | BT8LH |
| | MS3367-7-* | PLT3S | BT3S |

*Color Code

| | Current Mil. Std. Part No.* | *PAN-TY*® Part Number* |
|---|---|---|
| MARKER TIES | MS3368-1-*B | — |
| | MS3368-2-*B | — |
| | MS3368-1-*A | PLM2S |
| | MS3368-2-*A | PLM4S |
| | MS3368-3-*C | PL2M2S |
| | MS3368-4-*C | PL3M2S |
| | MS3368-5-*C | PLM1M |
| Tools | MS90387-1 | GS2B |
| | MS90387-1 | GS2BL |
| | MS90387-2 | GS4H |

## Color and Material of *PANDUIT*® Cable Ties

The following provides the color number for ***PANDUIT*** cable tie part numbers and U.S. military standard part numbers. Applies to cable ties in certain package sizes only. See Color and Availability chart on next page.

| MATERIAL | 6.6 NYLON | | | | | | | | | | | | | | | | | | | | | | NYLON 12 | POLYPRO-PYLENE | | TEFZEL■ | HALAR▲ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Color | † Nat. | Black ⌒ | † Black ⌒ | † Brown | † Red | † Orange | † Yellow | † Green | † Blue | † Purple | † Gray | White | Tele-phone Gray | Black ** | Heat Stab. Black | Heat Stab. Nat. | FL. Orange | FL. Yellow | FL. Green | FL. Pink | Flame Retard Black | Flame Retard Ivory | Heat Stab Black ⌒ | Black ⌒ | Black ⌒ | Green | Aqua Blue | Maroon |
| Panduit Part No. Suffix | NONE | 0 | 00 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 14 | 20 | 30 | 39 | 53 | 54 | 55 | 59 | 60 | 69 | 300 | 120 | 100 | 109 | 76 | 702 |
| MS3367 MS3368 MS17821 MS17822 Color Suffix | 9 | * | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| MS18034 MS18035 Color Suffix | NN | * | BK | BR | R | OR | Y | GN | BL | P | GY | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

* Not applicable to military specified parts

** Pigmented black

⌒ Weather resistant—for greater resistance to ultraviolet light.

†Meets MS3367 or MS3368 where applicable (specify MS number when ordering). All other parts meet dimensional and tensile strength requirements of MS3367 or MS3368 where applicable.

FL Fluorescent Colors

■TEFZEL is the registered trademark of E.I. DuPont Co. Fluoropolymer

▲HALAR is the registered trademark of Ausimont fluoropolymer